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# Academic Calendar

## Fall 2020 Calendar

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<th>Day of the Week</th>
<th>Event</th>
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</thead>
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<tr>
<td>August 2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Mon.</td>
<td>Classes begin (undergraduate and full-semester graduate)</td>
</tr>
<tr>
<td>September 2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Mon.</td>
<td>Final day for any schedule changes with no academic penalties and for late registration (undergraduate and full-semester graduate)</td>
</tr>
<tr>
<td>18</td>
<td>Fri.</td>
<td>Final day for students to sign up for P/F option (undergraduate and graduate)</td>
</tr>
<tr>
<td>18</td>
<td>Fri.</td>
<td>Honors project proposals due to Honors Director</td>
</tr>
<tr>
<td>25-27</td>
<td>Fri.-Sun.</td>
<td>Family Weekend</td>
</tr>
<tr>
<td>28</td>
<td>Mon.</td>
<td>Francis Week begins</td>
</tr>
<tr>
<td>October 2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Sun.</td>
<td>St. Francis Feast Day</td>
</tr>
<tr>
<td>7</td>
<td>Wed.</td>
<td>Final day for undergraduate &amp; graduate students to apply for December 2020 degree</td>
</tr>
<tr>
<td>10-13</td>
<td>Sat.-Tues.</td>
<td>Midterm Break</td>
</tr>
<tr>
<td>12</td>
<td>Mon.</td>
<td>University offices closed</td>
</tr>
<tr>
<td>19</td>
<td>Mon.</td>
<td>Undergraduate midterm grades due by 10:00 AM in Records Office</td>
</tr>
<tr>
<td>20</td>
<td>Tues.</td>
<td>Final day to present completed graduate thesis to program director for December degree candidates</td>
</tr>
<tr>
<td>20</td>
<td>Tues.</td>
<td>Final day to register for graduate Comprehensive Examination</td>
</tr>
<tr>
<td>November 2020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Thur.</td>
<td>Last day to withdraw from a full-semester class with a W grade</td>
</tr>
<tr>
<td>6</td>
<td>Fri.</td>
<td>Course Registration for Spring 2021 begins</td>
</tr>
<tr>
<td>6</td>
<td>Fri.</td>
<td>Final day to submit graduate thesis outline &amp; title for May 2021 graduation</td>
</tr>
<tr>
<td>10</td>
<td>Tues.</td>
<td>Final day for completed and corrected graduate thesis to be filed with the graduate dean for December graduation</td>
</tr>
<tr>
<td>20</td>
<td>Fri.</td>
<td>Last day to finish I grades from the Spring and Summer 2020 sessions (undergraduate and graduate)</td>
</tr>
<tr>
<td>December 2020</td>
<td></td>
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<tr>
<td>11</td>
<td>Fri.</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>12</td>
<td>Sat.</td>
<td>Reading Day</td>
</tr>
<tr>
<td>13</td>
<td>Sun.</td>
<td>Non-Examination Day</td>
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<tr>
<td>14-18</td>
<td>Mon.-Fri.</td>
<td>Graduate Final Examinations</td>
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<td>14-18</td>
<td>Mon. - Fri.</td>
<td>Undergraduate Final Examinations</td>
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<tr>
<td>15</td>
<td>Tues.</td>
<td>Class Meeting Hour - Exam Time</td>
</tr>
<tr>
<td>16</td>
<td>Wed.</td>
<td>Class Meeting Hour - Exam Time</td>
</tr>
<tr>
<td>17</td>
<td>Thurs.</td>
<td>Class Meeting Hour - Exam Time</td>
</tr>
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</table>
18 Fri. Class Meeting Hour - Exam Time
TTH 8:30 AM - 8:00-10:30 AM
MWF 2:30 PM - 10:35 AM-1:05 PM

18 Fri. Christmas recess begins after last examination

19 Sat. December Recognition Ceremony

21 Mon. Final grades due by 10:00 AM in the Records Office

21 Mon. Winter term classes begin

23 Wed. Last day to drop/add Winter term class

23-Jan. 1 Wed. - Fri. University offices closed

### Due Dates for fall semester online and 7-week graduate classes

<table>
<thead>
<tr>
<th>Class Format and Length/Activity</th>
<th>Classes begin</th>
<th>Last day to drop or add a course</th>
<th>Last date to withdraw</th>
<th>Session End Date</th>
<th>Special considerations</th>
</tr>
</thead>
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<tr>
<td>7-week courses, all formats, Session I</td>
<td>8/31</td>
<td>9/7</td>
<td>10/2</td>
<td>10/18</td>
<td>For face-to-face and hybrid classes please consult class schedule for exact meeting dates</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class Format and Length/Activity</th>
<th>Classes begin</th>
<th>Last day to drop or add a course</th>
<th>Last date to withdraw</th>
<th>Session End Date</th>
<th>Special considerations</th>
</tr>
</thead>
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<td>7-week courses, all formats, Session II</td>
<td>10/26</td>
<td>11/2</td>
<td>11/25</td>
<td>12/13</td>
<td>For face-to-face and hybrid classes please consult class schedule for exact meeting dates</td>
</tr>
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Final grades for 7-week Session II classes must be submitted by Monday, December 20th at 10:00 AM. Final grades for all other classes must be submitted within 7 days of the session end date.

### Spring 2021 Calendar

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<th>Day of the Week</th>
<th>Event</th>
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</thead>
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<td>January 2021</td>
<td></td>
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</tr>
<tr>
<td>15</td>
<td>Fri.</td>
<td>Winter term classes end</td>
</tr>
<tr>
<td>18</td>
<td>Mon.</td>
<td>Dr. Martin Luther King Jr. Day</td>
</tr>
<tr>
<td>18</td>
<td>Mon.</td>
<td>Final day for undergraduate and graduate students to apply for August 2021 and December 2021 degree</td>
</tr>
<tr>
<td>February 2021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Tues.</td>
<td>Classes begin (undergraduate and full-semester graduate)</td>
</tr>
<tr>
<td>19</td>
<td>Tues.</td>
<td>Final day for any schedule changes with no penalties and for late registration (undergraduate and full-semester graduate)</td>
</tr>
<tr>
<td>March 2021</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Mon.</td>
<td>Classes resume</td>
</tr>
<tr>
<td>15</td>
<td>Mon.</td>
<td>Final day to register for Graduate Comprehensive Examination with program director</td>
</tr>
<tr>
<td>17</td>
<td>Wed.</td>
<td>Midterm grades for undergraduate students due by 10:00 AM in the Records Office</td>
</tr>
<tr>
<td>17</td>
<td>Tues.</td>
<td>Last day to withdraw from a class with a W grade (undergraduate and full-semester graduate courses)</td>
</tr>
</tbody>
</table>
19 Fri. Final day for presentation of completed graduate thesis to major advisor to complete requirements for May 2021 graduation

31 Wed. Last day for completed thesis to be filed with the Graduate Dean for May 2021 graduation

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Fri.</td>
<td>Final day for presentation of completed graduate thesis to major advisor to complete requirements for May 2021 graduation</td>
</tr>
<tr>
<td>31</td>
<td>Wed.</td>
<td>Last day for completed thesis to be filed with the Graduate Dean for May 2021 graduation</td>
</tr>
</tbody>
</table>

**April 2021**

1-5 Thur.-Mon. Easter Break

6 Tues. Classes resume (MONDAY classes will be held)

13 Tues. Last day to finish I grades given in the Fall 2020 semester

**May 2021**

5 Wed. FRIDAY classes will be held

6 Thurs. Last day of classes.

8-12 Sat.-Wed. Final Examinations for full-semester courses

8 Sat. Class Meeting Hour - Exam Time

TTH 2:30 PM - 8:00-10:30 AM
MWF 11:30 PM - 10:35 AM-1:05 PM
TTH 8:30 AM - 1:10-3:40 PM
OPEN - 3:45-6:15 PM

9 Sun. Non-Examination Day

10 Mon. Class Meeting Hour - Exam Time

MWF 12:30 PM - 8:00-10:30 AM
MWF 9:30 AM - 10:35 AM-1:05 PM
MWF 2:30 PM - 1:10-3:40 PM
OPEN - 3:45-6:15 PM

11 Tues. Class Meeting Hour - Exam Time

TTH 1:00 PM - 8:00 AM - 10:30 AM
MWF 8:30 AM - 10:35 AM-1:05 PM
TTH 10:00 AM - 1:10-3:40 PM
OPEN - 3:45-6:15 PM

**Due Dates for spring semester online and 7-week graduate classes**

<table>
<thead>
<tr>
<th>Class Format and Length/Activity</th>
<th>Classes begin</th>
<th>Last day to drop or add a course</th>
<th>Last date to withdraw</th>
<th>Session End Date</th>
<th>Special considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-week courses, all formats</td>
<td>1/18</td>
<td>1/25</td>
<td>2/17</td>
<td>3/7</td>
<td>For face-to-face and hybrid classes please consult class schedule for exact meeting dates</td>
</tr>
<tr>
<td>Session I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-week courses, all formats</td>
<td>3/15</td>
<td>3/22</td>
<td>4/14</td>
<td>5/2</td>
<td>For face-to-face and hybrid classes please consult class schedule for exact meeting dates</td>
</tr>
<tr>
<td>Session II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Final grades for 7-week Session II classes must be submitted by Monday, May 17th at 10:00 AM. Final grades for all other classes must be submitted within 7 days of the session end date.
ACADEMIC POLICIES

The Cumulative Index is found by dividing the number of credit hours of work the student has taken into the number of quality points the student has earned.

Grading System (effective September 1990)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Comment</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Exceptional</td>
<td>4.0 quality points per credit hour</td>
</tr>
<tr>
<td>A-</td>
<td>Very Good</td>
<td>3.7 quality points per credit hour</td>
</tr>
<tr>
<td>B+</td>
<td></td>
<td>3.3 quality points per credit hour</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>3.0 quality points per credit hour</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7 quality points per credit hour</td>
</tr>
<tr>
<td>C+</td>
<td>Average</td>
<td>2.3 quality points per credit hour</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2.0 quality points per credit hour</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.7 quality points per credit hour</td>
</tr>
<tr>
<td>D+</td>
<td>Below Average</td>
<td>1.3 quality points per credit hour</td>
</tr>
<tr>
<td>D</td>
<td>Below Average</td>
<td>1.0 quality points per credit hour</td>
</tr>
<tr>
<td>D-</td>
<td></td>
<td>0.7 quality points per credit hour</td>
</tr>
<tr>
<td>P</td>
<td>Passing (D- or better)</td>
<td>credit but no quality points</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>no credit and no quality points</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>no credit and no quality points</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Signifies an Honors course</td>
<td>Withdrawn without academic penalty</td>
</tr>
<tr>
<td>W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Course Withdrawal Guidelines

The date set for withdrawal from undergraduate courses is to be determined by the Registrar as follows: the deadline for withdrawal shall be set for the close of business hours on the first business day following the completion of approximately 2/3 of the class meetings scheduled for the course, excluding the final examination. The Registrar's decision is final. All five-week courses will follow the 2/3 policy. Withdrawal from a class may be made at the Registrar’s office by the individual student only through the published withdrawal date for each academic term. The student must fill out a Withdrawal Form. Both the student’s academic adviser and the faculty member teaching the class must be asked to sign the form. The adviser's signature indicates that the student has been informed of the consequences of his/her decision to withdraw. The instructor's signature indicates awareness of the withdrawal request. Neither signature constitutes permission. A "W" grade will not be counted in determining semester or cumulative GPA. No academic penalty attaches to a grade of "W." A student, however, who prior to the published withdrawal date is notified of an alleged violation of the Academic Honesty Policy that would result in an automatic failure of the course, may withdraw from the course but the withdrawal is not effective until and unless the student has been cleared of the charge. All things to the contrary notwithstanding, if the student admits to or is found guilty of the alleged violation of the Academic Honesty Policy, that student is prohibited from withdrawing from the class in question. Students who are not engaged in class by the end of the University’s add/drop period may be administratively withdrawn from the course.

Class Level

Class level is based on credit hours earned. The breakdown is as follow:

First Year: 0 - 29 credit hours earned
Sophomore: 30 - 59 credit hours earned
Junior: 60 - 89 credit hours earned
Senior: 90+ credit hours earned

Academic Probation and Dismissal

To qualify for graduation from St. Bonaventure University, each student must meet two academic index requirements. The student's overall cumulative index must be at least 2.00. In addition, the student's cumulative index for courses taken in the major field must be at least 2.00. Any student in Elementary Education or Physical Education must have an overall cumulative index in the major of 3.00.

Any student whose overall index is below 2.00 must be regarded as academically deficient. Students who are regarded as academically deficient may be academically dismissed from the University, offered the opportunity to remain enrolled through the auspices of either the Academic Restoration Program or the Academic Intervention Program. Students who are regarded as academically deficient are automatically placed on academic probation. The Academic Review Committee, whose membership is comprised of the undergraduate academic deans, the Registrar, the Director of the Learning Center, the Director of Disability Support Services, the Executive Director of Residential Living and the Director of the Wellness Center, meets at the end of each semester to evaluate the status of each student with an overall cumulative index below 2.00.

Although St. Bonaventure University attempts to notify students of their academic status and/or dismissal, it is the sole responsibility of the
The student to be aware of University expectations regarding satisfactory academic progress and his or her performance in each semester.

1. **Academic Probation**: A student should view academic probation as a serious warning that his or her academic record is unsatisfactory. It should be viewed as an opportunity and an obligation to improve.

   Probationary status has a duration of one semester, and during this semester the student must make, in the judgment of the Academic Review Committee, significant academic improvement; otherwise, he or she incurs academic dismissal. If, over the course of this first probationary semester, the student is judged by the Committee to have made significant academic improvement but has not raised his or her cumulative index to at least 2.00, probationary status will be extended for a second semester. If, at the conclusion of this second consecutive probationary semester, the student has not raised his or her cumulative index to the appropriate level, based on the credits completed as outlined in points 2a, 2b, and 2c, below, he or she may incur academic dismissal.

   Freshmen students placed on probation after the first semester at SBU are required to enroll in a section of FRES-101. This non-credit course is specifically designed to provide the first year student with additional support and skills necessary to succeed academically.

2. **Academic Dismissal**: A student who incurs academic dismissal may not enroll in any division of the University and may not apply for readmission to any division of the University until at least six months have elapsed since the dismissal date and all requirements to raise the student's cumulative index have been met. The student must attend another institution of higher learning to achieve this.

   If the student is to be readmitted, the student's performance at the alternate institution should provide evidence that the student can successfully complete the academic program at St. Bonaventure. In no case is readmission automatic, since it is a privilege granted by the University.

   The following students are liable to be academically dismissed from the University:
   a. Students who have completed 23 or fewer credit hours and whose cumulative index is less than 1.70;
   b. Students who have completed more than 23, but fewer than 60 credit hours and whose cumulative quality point index is less than 1.85;
   c. Students who have completed 60 or more credit hours and whose cumulative quality point index is less than 2.00;
   d. Any student who fails three or more courses in a single semester;
   e. Any student who has completed two consecutive semesters on probation (excluding summers) and who fails to raise his or her cumulative quality point index to the appropriate level, based on the credits completed as outlined in points 2a, 2b and 2c above. Students should note that repeating failed courses during the summer session may raise the cumulative quality point index, but does not remove probationary status for the next semester.
   f. Any full-time, matriculating student who fails to complete more than two-thirds of the cumulative coursework attempted.

3. **Appeal of Academic Dismissal**: A student who incurs academic dismissal from the University may appeal the decision in writing to the chair of the Academic Review Committee; the entire committee will review the appeal. Full notification of the appeals procedure is included with the communication notifying the student of the dismissal. If the Committee does not reverse a decision to dismiss a student, the student may appeal in writing to the chief academic officer; however, the decision of the Academic Review Committee will be reversed only if there is compelling evidence of an error in procedure or a clearly erroneous finding of fact.

4. **Academic Restoration Program**: If a student becomes liable for academic dismissal at the end of his or her initial semester at St. Bonaventure, the Academic Review Committee may, at its discretion, offer the student the Academic Restoration Program in lieu of academic dismissal.

   The student and his/her parent/guardian (if applicable) must sign a statement agreeing to complete in full a series of rigorous academic exercises, including weekly meetings with members of the Teaching and Learning Center. Failure to comply with any component of the program will result in immediate dismissal from St. Bonaventure. The semester spent in the Academic Restoration Program is considered a probationary semester, and all provisions concerning academic progress during probation as listed in Section 1 above apply.

5. **Academic Intervention Program**: A student liable for academic dismissal at the end of the semester other than the initial semester at St. Bonaventure University may be offered the opportunity to return to the University if the student agrees to participate in the Academic Intervention Program.

   The dismissed student and his or her parent/guardian (if applicable) must sign an Academic Intervention Program Pledge to continue enrollment at the University; a signed AIP Pledge commits the student to weekly academic meetings and classroom attendance. AIP students who violate their pledge are dismissed from the Program. The semester spent in the Academic Intervention Program is considered a probationary semester and all provisions concerning academic progress during Probation, as listed in Section 1, apply.

6. **A student may participate only once in a program offered in lieu of dismissal**. If a student participated in the Academic Restoration Program he or she is not eligible at a later date to participate in the Academic Intervention Program.

**Grade Changes**

Grade changes, except for "I" and "IP" grades, should not be made without just cause. Students are expected to complete all prescribed course work within the semester of registration.

Students who question a grade must notify the instructor in writing no later than 30 days after the termination of the semester for which the grade was recorded. A copy of the written notice must be sent to the academic dean of the school where the course is housed within the same time constraints. Instructors must respond in writing before the end of the add/drop period of the subsequent semester.

**Examinations**

Scheduled examinations are held in courses at the end of the semester except when the instructor's written request to dispense with one is approved by the appropriate dean. Each instructor will hold such other examinations during the course as the instructor deems necessary. Administration of make-up examinations for those students missing examinations will be given at the option of the instructor. Failures in courses are removed only by repeating the course, not by special examinations. All final grades are recorded on the student's academic transcript.
Grade Reports
A report of achievement following the midpoint as well as the close of each semester can be obtained by logging on to my.sbu.edu (http://my.sbu.edu). Students may request the Registrar to send grades to their parents. (See section entitled The Family Educational Rights and Privacy Act.)

Registration
Registration for the fall and spring semesters will be held near the midpoint of the previous semester. All students, other than first-semester students, will be able to register for courses online through my.sbu.edu (http://my.sbu.edu) where students will find scheduled course offerings, course descriptions and date and time assignments for registration. Each student must be approved to register by his or her academic adviser and must satisfy all financial obligations before registration can be completed. Students must consult with their assigned adviser prior to registration in order to insure proper guidance in course selection. Failure to register will be interpreted as notification of intention to withdraw from the University at the end of the current term.

Cross-Registration
Full-time, matriculated undergraduate students may register for one course per semester at one of the Western New York Consortium Schools. Students must seek approval to pursue cross-registration through the Registrar’s Office prior to enrollment in the course. The Registrar will provide verification of the student's full-time status, required for the student to enroll at the other institution. Tuition charges do not apply but other fees and charges may be applicable. It is the student’s responsibility to verify, prior to enrollment, that he or she will be able to meet the academic calendar requirements of the other institution.

Credit Load
The usual maximum credit load is 18 academic credit hours per semester. Honor students enrolled in an honors course may take one additional course without their academic dean's permission. Students on probation may not take more than 15 credit hours per semester without special permission from their academic dean. The maximum credit load for any summer session is 7 credits.

Credit Hour Definition
One semester hour of credit will be awarded for:

1. A minimum of 750 minutes of live or recorded instructor-led class time. This includes lectures, discussions and other instructional methodologies, in any combination.
2. A minimum of 1500 minutes of supervised laboratory time.
3. A minimum of 2250 minutes of self-paced laboratory time.
4. An online or hybrid learning experience that equates to an equivalent amount of time in structured learning activities (i.e. learning activities that would normally take place in class such as on-line quizzes, lecture podcasts, synchronous learning activities and discussion boards) but does not include activities such as homework and class preparation that would normally not count toward instructional time.

Examples of activities that do not count toward instructional time: readings, homework and other intrinsic preparation or activities (e.g. practicing calculations).

Auditing Courses
Any person who is properly admitted by the director of admissions may audit courses. Written permission to do so must be granted by both the course instructor and the academic dean. Registration procedure for courses is the same as for courses taken for credit. There is no credit granted but a record is kept on the student's transcript. Students will be billed an auditing fee.

A registered auditor will not be permitted to change credit status after the expiration of the usual one-week period for change of class schedule. Credit for a course once audited may be earned only by successfully repeating the course, unless credit is validated by a standard proficiency examination. See Credit by Examination and Open Door Policy.

Participation in Study Abroad or Service Tips
Students must be in good academic standing with a cumulative GPA of at least 2.0 in order to participate in a study abroad experience or a service trip sponsored by the University.

Changes in Major Field
To change a major field, students must first obtain written recommendation from:

1. Their academic adviser.
2. The department chair from and to which the student desires to change his/her major. Such recommendations must be completed on the appropriate forms and submitted to the Records Office.

Courses of Instruction
Courses of instruction offered each semester will be published on my.sbu.edu (http://my.sbu.edu). The University reserves the right to cancel any course for insufficient enrollment. Generally, odd-numbered courses are offered during the first semester and even-numbered courses during the second semester. Course offerings are subject to demand, departmental requirements and availability of instructors.

New Students
St. Bonaventure University conducts three Orientation sessions during the month of July. All freshmen are required to attend one of the summer sessions. Special arrangements or exemptions must be made through the Student Success Center. An orientation for transfer students is held the weekend prior to the first day of classes in each semester. An orientation session is held in January for the new students beginning in the spring term.

The July orientation sessions enable incoming freshmen to discuss their course of study with an adviser. Presentations and seminars are facilitated by the academic and student life offices to give students a comprehensive orientation to the academic and social contexts of St. Bonaventure. Parents are welcome and encouraged to participate in the summer orientation session.

The Welcome Days program is required for all new resident students registered to begin in the fall semester. It offers the opportunity to move in early and attend a variety of workshops, speakers and socials. These activities will better acquaint the new student with the University academically and socially over a three-day period.
Student Leave of Absence

A leave of absence for medical reasons must be issued by the Vice President for Student Affairs. Students must make their requests in writing to the Vice President for Student Affairs at or prior to the time they are requesting to take the leave, and leaves will not be granted retroactively. Medical leaves of absence will not be entertained after the official last date to withdraw from classes, as established by the University's academic calendar, with the exception of extreme emergency cases.

Medical leave is granted by the Vice President for Student Affairs upon recommendation of the University physician and/or Counseling Center personnel or other appropriate professionals (see below). Medical leave is typically granted when a student’s condition makes it necessary for the student to leave campus for an extended period of treatment. A medical leave serves a student in the following ways:

1. A student is withdrawn from classes, receives a “W” on the student transcript for those courses, and while the student does not receive academic credit for the courses, the student is not penalized for the withdrawal.
2. A student living in a residence hall is granted a space for the following semester upon reenrollment, provided that on-campus living is not a recommended restriction.
3. Financial payments to the University are reimbursed on a prorated basis.

Students leaving the University for medical reasons will be eligible to participate in the re-enrollment process only after they have received necessary treatment, and upon approval of the Vice President for Student Affairs, in consultation with the University physician and/or Director of the Center for Student Wellness. The student may be recommended for readmission only after the University receives written reports of evaluations from qualified health care professionals, and the student participates in an interview with the Director of the Center for Student Wellness, University Physician, and/or other appropriate personnel.

After these evaluations are complete and received by the University, a recommendation will be made to the Vice President for Student Affairs who will make a decision regarding the student’s eligibility for readmission. The University reserves the right to require consultations between the student and relevant professionals of the University’s choice. Stipulations for return to the University will be outlined at the time a request for leave is granted.

Students who have withdrawn from St. Bonaventure with good standing may be re-enrolled when formal application for re-enrollment is approved by the Records Office. If the student has been absent for more than one full semester, a processing fee must be filed with the application.

Before a student is re-enrolled, the student must furnish an updated medical history record. Any student who leaves St. Bonaventure University for medical reasons must complete the re-enrollment process by July 15 for the fall semester and by Dec. 1 for the spring semester.

The re-enrollment process requires that a student complete the following steps:

1. Make reapplication through the Office of the Vice President for Student Affairs;
2. Submit a letter from the student to the appropriate University representative indicating why the student believes he/she is ready to return to the University;
3. Provide documentation as required by the Office of the Vice President for Student Affairs;
4. Discuss with the appropriate University representative(s) the request for re-enrollment.

If re-enrollment is approved, on-campus housing, when appropriate, will be assigned by the Office of Residential Living.

Withdrawal

Any student who withdraws from the University must give formal notice to the University Registrar. The policy below will be used for all withdrawals from the University with the exception of medical and military service leaves. The official withdrawal date is the date that the student begins the school’s withdrawal process at the Registrar’s Office, or the date that the student otherwise provided official notification.

Students may request a review of their withdraw type, date of withdraw, or calculation within 30 calendar days of issuance of the final billing from the University. Requests made after 30 days will not be reviewed.

Military Service Withdrawal

If a student is called to active duty, a Military Withdrawal will be granted through the University’s Registrar’s Office. Students should contact the Registrar’s Office as soon as possible to fill out the official withdrawal form. A Military Withdrawal will be granted once the University receives a copy of the official orders or a notice from the student’s Commander. The Registrar will indicate on the withdrawal form that the reason for withdrawal is “military service.”

If timing does not permit the student to fill out the withdrawal form, the student may initiate the withdrawal by providing a formal request in writing. The student must sign the letter and send it to the Registrar’s Office, PO Box C, St. Bonaventure, NY 14778 or by fax to (716) 375-2087. Once the form is received, the Registrar will initiate the withdrawal on the student’s behalf. In addition, a copy of the orders must accompany the form.

Complete Withdrawal Option (without academic penalty)

Students with a military withdrawal will not be charged tuition for the semester of withdrawal, will receive a 100% refund, and will be removed from all courses with no credit and no record of attendance on the student’s transcript.

Early Exam Option

If a student is called to military duty and has completed 75% of the enrollment period (11 weeks), he/she may opt to make arrangements with his/her professors to take the final exam(s) early and be given full credit for all courses. Students will be billed according to the University tuition billing policy.

Financial Aid

In cases where 100% of a student’s tuition charges are forgiven, all institutional aid and New York state aid will be withdrawn from the student’s account. If a student receives state grant funds from a state other than New York, the University will abide by the return of funds policy
from that state. The University will abide by the federally required Title IV return of funds policy for federal financial aid.

**Room and Meal Plan**
Room and meal plans will be pro-rated based on the number of weeks the student was enrolled in school.

**Re-enrollment**
Students seeking re-enrollment should apply/inquire through the Registrar’s Office.

**Class Attendance and Absences**
During the first week of each semester the instructor will announce his or her policy pertaining to the conduct of each course. Students are expected to accept the responsibility of class attendance. It is assumed that they will make the most of the educational opportunities available by regularly attending classes and laboratory periods. The responsibility for making up any work missed rests entirely upon the student. Students should notify the Office of the Registrar if they have been absent due to illness or family emergencies. If students are absent it is their responsibility to inform their instructors and provide appropriate documentation if necessary. Instructors are encouraged to report to the Registrar the names of students who are frequently absent or tardy.

**University Policy on Academic Honesty**
Enrollment at St. Bonaventure University requires adherence to the University’s standards of academic integrity. These standards may be intuitively understood and cannot, in any case, be listed exhaustively. The following examples, detailed in full in Appendix A of the Code of Conduct (http://www.sbu.edu/codeofconduct (http://www.sbu.edu/codeofconduct/)), represent some basic types of unacceptable behavior: cheating, plagiarism, fabrications, obtaining an unfair advantage, aiding and abetting academic dishonesty, falsification of records and official documents, and unauthorized access to records. Academic dishonesty is a serious matter and will be dealt with accordingly, with University sanctions ranging from grade alteration to the possibility of expulsion. Students should familiarize themselves with these very important provisions of the Academic Honesty Policy, which is outlined in the Code of Conduct for reference only. Acts of academic dishonesty are not processed through the University Judicial process; the process for handling alleged violations is outlined within the policy.

**The Pass-Fail Option**
The intent of this option is to allow the full-time undergraduate students to broaden their educational experience beyond the limits which their particular course of study might impose, without undue fear of academic penalty. For traditional 15-week courses eligible students may exercise this option by submitting to the Registrar’s office a completed pass-fail option form between the first day of the semester and the final business day of the third week of classes. For courses of shorter duration the deadline to exercise this option will be the day representing completion of approximately 20% of the class meetings. Only one course during each term may be taken pass-fail, including summer, with a maximum total of six courses. The pass grade (D- grade or better) will not affect the cumulative index (grade point average). A grade of F will be used in computing the cumulative index.

**Pass-Fail Limitations**
No student with fewer than 30 credit hours may use this option. Except for courses required by specific academic majors that are explicitly designated as “Pass-Fail” courses (e.g., internships) the following courses cannot be elected under the Pass-Fail option:

1. any course in the student’s major;
2. any course cognate to the student’s major;
3. any course taken to fulfill General Education requirements;
4. any course taken to fulfill a school requirement;
5. any course taken as part of a minor;
6. any course once taken for the conventional grade, may not be repeated with the pass-fail option.

**Administrative Policy for the Pass-Fail Option**
Eligible students may exercise this option by filing a form with the Registrar during a period between the first day of the second week of the semester in which the course will be taken and the final class of the third week of that semester, after which time the student may not change the student’s decision, except that the student may procure a “Withdrawal Form” from the Registrar’s office and withdraw from the course with a W grade. No student with less than 30 credit hours may use this option. Instructors will not be told who has chosen the pass-fail option; instructors will follow the usual grading system in reporting final grades, which will be converted by computer. It is necessary that actual grades earned be recorded so that they may be retrieved from the records should a student change major and find that a course taken as “pass-fail” is cognate to or part of the new major.

Students and faculty should be aware that the Registrar’s office will not report to the student, to the student’s adviser, to graduate schools or to any other person or institution the grade (unless it is an F grade) reported by the instructor for such courses that a student elected on the pass-fail option.

**Courses Taken at Other Institutions**
Matriculated students who wish to take courses elsewhere to transfer back to St. Bonaventure University should receive confirmation in advance, and prior to enrollment at the other institution, of the transferability and equivalency of the course or courses in which they wish to enroll. Students should contact the Records Office for assistance with this process. Matriculated students may transfer for degree credit one course (up to 4 credits) during each of the fall and spring semesters. All courses taken at other institutions, during both summer sessions and the regular academic year, remain subject to the established Residence Requirement.

**Open Door Policy**
All fully matriculated students at St. Bonaventure may, merely with permission from the appropriate instructor, attend any course without necessary prerequisites, without formal registration, without charge and without direct academic credit. This policy is designed to encourage students to explore courses of study which may ordinarily not be experienced and to consider the classroom experience as one of many readily available educational resources.

**Visiting Student Program**
The St. Bonaventure Visiting Student Program was established to provide opportunities for students to study for a semester or a full year at another accredited college or university in the United States without having to transfer. Credits from approved courses are applied toward degree
requirements at St. Bonaventure University. For further information, contact the Registrar’s office.

Senior-Graduate Course Work
Seniors with a grade point average of 3.0, with the recommendation of the department chair, and with the approvals of the instructor and the Dean of Graduate Studies may enroll in one graduate course for undergraduate credit per semester. At the discretion of the student’s department chair, the credit may be used in satisfying the minimum requirements for the major. For further information, contact the School of Graduate Studies.

SBU undergraduates taking graduate classes
Students planning to enroll in a graduate program at St. Bonaventure may take a total of 9 credit hours of graduate course work during their senior year. Three (3) credits in the next-to-last semester and 6 credits in the last semester provided these credits are above and beyond the 120 needed for the baccalaureate degree and their GPA is a 3.0 or better. Approval is required by the instructor, program director and graduate dean.

Official Transcripts
An official transcript is one bearing the University seal and an authorized signature of the University. Official transcripts are mailed directly to other institutions and agencies. An unofficial transcript does not bear the seal and signature. A student or an alumnus may recover their own.

A fee is charged for each transcript of academic and medical records. The University will honor written requests only. The student must also give written permission to the University to release the student’s record to a designated recipient. This written release is required to conform with stipulations of federal law regarding confidentiality and release of student information. Transcripts normally will not be furnished during final examination periods or the week following. According to University policy, grades, official transcripts, recommendations and diplomas may not be issued to those who have not met their financial obligations to the University.

Transcript Notation
The following standards for institutional transcript notation apply to any student found responsible for a violation of the Code of Conduct that is defined as a crime of violence reportable under the Clery Act:

- Students suspended for said violations will have the following noted on the transcript: “Suspended after a finding of responsibility for a code of conduct violation.”
- Students expelled after a finding of responsibility for a code of conduct violation will have the following noted on the transcript: “Expelled after a finding of responsibility for a code of conduct violation.”
- Students withdrawing from the University during an investigation, or any time prior to or during the completion of judicial procedures (including an appeal process), will have the following noted on the transcript: “Withdrew with conduct charges pending.”

Students may appeal to the University through the appeals process outlined in this policy to have suspension notation, and only the suspension notation, removed from the transcript. If granted, the notation will be removed no less than one year after the suspension is imposed. This appeal does not apply to the expulsion notations or withdrawal notations.

The Family Educational Rights and Privacy Act
Pursuant to the Family Educational Rights and Privacy Act of 1974 (FERPA) St. Bonaventure University (the “University”) adopts the following policy:

   a. Education Records. Education records are those records maintained by the University which directly relate to a student. Education records do not include records of instructional, administrative and educational personnel which are in the sole possession of the maker and not accessible to anyone other than a temporary substitute; records of campus security maintained solely for security purposes and accessible only to security personnel; alumni records; and student health records.
   b. Explanation of Records. The University will respond to reasonable requests for explanation or interpretation of education records.
   c. FERPA Coordinator. The Registrar’s office has been designated to coordinate FERPA procedures.
   d. Records Maintained by the University. Education records covered by FERPA and maintained by the University are: admissions, personal, academic, and financial files; and academic and placement records.
   e. Annual Notice. On an annual basis the University will notify students currently in attendance at the University of their rights under FERPA. The content of this notice will be in compliance with all federal regulations enacted under FERPA.

2. Review and Challenge to Content of Records
   a. Right to Inspect. Except as limited below, students have the right to inspect and review information contained in their education records, to challenge their content, to have a hearing if the outcome of that challenge is unsatisfactory to them, and to submit explanatory statements for inclusion in their education records if the decision of the hearing is against them. Student health records, while not considered education records under FERPA, may be reviewed at the student’s request by a physician of the student’s choosing.
   b. Limitations on Right to Inspect. Education records excepted from the right to inspect and review outlined in paragraph 2a are:
      i. Education records containing information about more than one student, (in which case the University will permit access only to that part of the record which pertains to the inquiring student);
      ii. Financial records;
      iii. Confidential letters and recommendations placed in the student’s file prior to Jan. 1, 1975, that are used solely for the purpose for which they were intended; or
      iv. Confidential letters and recommendations placed in the student’s file after January 1, 1975, to which the student has freely waived his or her rights of inspection and review in a signed statement, and which are associated with admissions, application for employment, or receipt of honors. If a student has waived the right of inspection under this section, the University will, upon request, give the student names of persons providing confidential letters of recommendation. A
student may prospectively revoke such waiver with a signed statement.

v. A student in default on any student loan may receive only an “unofficial” transcript until the default status is cleared.

c. Procedures to Request Inspection. Students wishing to review their education records must make written requests to the office of the Registrar listing the item or items of interest. Records covered by FERPA will be made available to a student within 45 days of request. Students may have copies of their records made by the University at the students’ expense and at the price of 10 cents per page. The University will not destroy an education record if there is an outstanding request to inspect it.

d. Right to Challenge Content of Records. Students who believe that their education records contain information that is inaccurate or misleading, or is otherwise in violation of their privacy or other rights, may request the University to amend the records through written application to the Registrar. The Registrar will decide within a reasonable period of time whether or not to amend the record as requested. If the University decides not to amend the record, it will inform the student of this decision and of the student’s right to a hearing.

e. Right to a Hearing. A student’s request for the hearing provided for in Paragraph 2d must be made in writing to the Vice President for Academic Affairs who, within a reasonable period of time after receiving such request, will inform the student of the date, place and time of the hearing. The student may present evidence relevant to the issues raised and may be assisted or represented at the hearings by one or more persons of the student’s choice, including an attorney, at the student’s expense. The panel which will decide such hearings will be composed of three administrators who have no direct interest in the outcome of the hearing (the “Panel”) appointed by the Vice President for Academic Affairs. Decisions of the Panel will be final, will be based solely on the evidence presented at the hearing, and will be delivered to all parties concerned. The education records will be corrected or amended in accordance with the decisions of the Panel if the decision is in favor of the student, and the student will be so informed in writing. If the decision is against the student, the student may place a statement in the education records commenting on the information in the records, or setting forth any reasons for disagreeing with the decisions of the Panel. This statement will be maintained as part of the education records, and released whenever the records in question are disclosed.

3. Disclosure of Personally Identifiable Information

a. Disclosure. Personally Identifiable Information is any information which would make the student’s identity easily traceable. Except as such disclosure is permitted by law, no one outside the University shall have access to, nor will the University disclose, such information from a student’s education records without the signed written consent of the student specifying: the records which may be disclosed, the purpose of the disclosed and the identity of the parties to whom disclosure is made. Under FERPA disclosure absent consent is permitted: a) To personnel within the University whom the University has determined have legitimate educational interest in the information. Only those employees of the University, individually or collectively, acting in the students’ educational interests are allowed access to student education records. These employees include specific personnel in the offices of finance, financial aid, provost, student life, admissions, registrar and athletics.

All on a need-to-know basis:

i. To officials of other institutions in which students seek to enroll;

ii. To authorized representatives of federal, state or local government requesting access to the educational records in connection with an audit or evaluation of federal- or state-supported educational programs, or for the enforcement of or compliance with federal legal requirements which relate to those programs;

iii. To persons or organizations providing student financial aid which the student has received, or for which the student has applied, provided that the information requested is necessary to determine eligibility for aid, the amount of aid, the conditions for aid or to enforce the terms and conditions of the aid;

iv. To organizations conducting studies for the University to develop, validate or administer predictive tests; administer student aid programs; or improve instruction, provided that this information may be used only by such organization and will be destroyed when no longer needed;

v. To accrediting agencies carrying out their accreditation function;

vi. To persons in compliance with a judicial order or lawfully issued subpoena, provided that in advance of compliance, the University will make a good-faith effort to notify the student of the order or subpoena; and

vii. To persons in an emergency in order to protect the health or safety of students or other persons.

b. Directory of Information. “Directory Information” is information contained in a student’s education record which would not generally be considered harmful or an invasion of privacy if disclosed. The University has designated the following types of information as directory information: student name, permanent and college addresses, telephone numbers, e-mail address, photograph, Commencement video, date and place of birth, major field of study, dates of attendance, part- or fulltime enrollment status, degrees and awards received, and most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports, and weight and height of members of athletic teams.

c. Disclosure of Directory Information. Under FERPA, directory information may be disclosed by the University for any purpose at its discretion. Currently enrolled students may withhold disclosure of any or all directory information pertaining to them by notifying the Registrar in writing no later than five (5) days after the first day of class in the fall semester to this effect. Requests for non-disclosure will be honored by the University for only one academic year; therefore, requests to withhold directory information must be filed annually.

d. Disclosure Records. The University will maintain a record of each request for access to and each disclosure of personally identifiable information from a student’s education record, unless the request is from the student, University personnel, or a person with consent, or is for student directory information. This record will include the name of the party requesting the information and their interest in it. This record will be maintained with the student’s education records.
4. **Complaints**
   a. **Complaints.** Students who believe that the University has failed to accord them their rights under FERPA may file complaints with The Family Policy and Regulations Office, U.S. Department of Education, Washington, DC 20202.

**Changes in University Regulations**

The Board of Trustees of the University reserves the right to advance the requirements for admission, to change the courses, the requirements for graduation, degrees, tuition, fees and regulations affecting the student body. Such regulations will apply to all old and new students and will go into effect on the date when promulgated by the University. This places the responsibility on each student to keep himself/herself informed of the content of all notices.
ACADEMIC SERVICES

Accessibility Services and Accommodations
Student Success Center • First Floor, Plassmann Hall • (716) 375-2065

Accommodations and support services are available to students who have learning disabilities, ADHD, vision or hearing loss, physical disabilities, medical diagnoses and health conditions, and/or mental health diagnoses. Students with documented disabilities may request reasonable accommodations and auxiliary aids that enables them to participate in programs and activities at St. Bonaventure University. Accessibility Services and Accommodations (ASA) works with students who register with the office, submit documentation that supports the requested accommodations and self-disclose to professors each semester.

Available accommodations include, but are not limited to, extended time for class exams, distraction reduced testing environment, access to computers with Microsoft Word, note taking assistance, and access to digital media materials.

In order to be eligible for reasonable academic accommodations, current documentation of a disability must be submitted to the ASA office. Documentation must include a specific diagnosis of a disability and support the requested accommodation(s). Students should contact the ASA office for more specific information about documentation requirements or questions regarding eligibility or services.

The Student Success Center
First Floor, Plassmann Hall • (716) 375-2692

The Student Success Center is a centralized resource for academic support for all undergraduate students. Services in the Student Success Center include tutoring, academic counseling, supplemental instruction, the writing and math labs, orientation programming, peer coaching, the All Bonaventure Reads program, services for students with disabilities, and services for international students. The Student Success Center also hosts the Arthur O. Eve Higher Education Opportunity Program (HEOP), a college-access program sponsored jointly by St. Bonaventure University and the New York State Education Department. Retention efforts – notably the Academic Intervention, Academic Restoration, and Freshman Probation programs – offer students who have low grades an opportunity to reclaim their academic standing. Tutoring, available at no additional cost to the student, is the most widely used academic support service and is available for most lower-level and general education courses.

Career and Professional Readiness Center
Room 231, Reilly Center • (716) 375-2384

The CPRC offers a comprehensive range of services and programs that empowers students with the skills to understand and implement career/life goals, enhance their professional development, and implement effective job-search strategies.

Undergraduate and graduate students are offered an opportunity to develop career goals and explore the relationship between academic majors and career choice through individual counseling, workshops, vocational assessments and the use of the Center’s web-based resources. Additionally, all students are encouraged to participate in the CPRC’s Competitive Edge Certificate Program. This program provides sophomore, junior and senior students the opportunity to enhance their marketability to employers and graduate schools through participation in specific professional development workshops and events. The CPRC coordinates an on-campus recruiting program, authors a comprehensive website at http://www.sbu.edu/cprc (http://www.sbu.edu/cprc/), and assists students with the job and internship and/or graduate school search process.
ACREDITATIONS & MEMBERSHIPS

Chartered by the State of New York and the Board of Regents

Registration:
- State Education Department of New York

Accredited by:
- Association to Advance Collegiate Schools of Business
- Council for Accreditation of Counseling and Related Educational Programs
- Middle States Association of Colleges and Secondary Schools
- National Council for Accreditation of Teacher Education

Membership in:
- Association to Advance Collegiate Schools of Business
- American Association of Colleges for Teacher Education
- American Association of Collegiate Registrars and Admissions Officers
- American Association for Higher Studies
- American Association of University Administrators
- American College International
- American Council on Education
- American Educational Research Association
- American Historical Association
- American Library Association
- American Personnel and Guidance Association
- American Society of Journalism School Administrators
- Archives of American Art
- Association of American Colleges
- Association for Childhood Education International
- Association of College Unions
- Association of Colleges and Universities Community Arts Administration
- Association of Colleges and Universities of the State of New York
- Association of Colleges and University Housing Officers
- Association for Core Texts and Curriculum
- Association for Education in Journalism and Mass Communication
- Association for Franciscan Colleges and Universities
- Association for General Liberal Studies
- Association of Governing Boards of Universities and Colleges
- Association for Supervision and Curriculum
- Association of University Evening Schools
- Broadcast Educators Association
- Catholic Biblical Association of America
- Catholic Campus Ministry Association
- Catholic Library Association
- College Entrance Examination Board
- College Placement Council
- College and University Personnel Association
- Council for Advancement and Support of Education
- Council for Exceptional Children
- Council of Graduate Schools
- Council of Independent Colleges and Universities Council on Administrative Leadership
- Council on Undergraduate Research
- Eastern Association of College Deans and Advisers of Students
- Eastern Association of College and University Business Officers
- Eastern Association of Financial Aid Administrators
- Eastern College Athletic Association
- Eastern College Athletic Conference
- Franciscan Educational Conference
- International Literacy Association
- Kappa Delta Pi
- Middle Atlantic Association of College of Business Administration
- Mid-Atlantic Placement Council
- Midwestern Association of Graduate Schools
- Modern Language Association of America
- National Art Education Association
- National Association of Business Teacher Training
- National Association for College Admission Counseling
- National Association of College and University Business Officers
- National Association for the Exchange of Industrial Resources
- National Association of Financial Aid Administrators
- National Association for Foreign Student Affairs
- National Association of Independent Schools
- National Association for Sport and Physical Education
- National Association of Student Personnel Administration
- National Association of Summer Sessions
- National Association of Women Deans, Administrators and Counselors
- National Association for Campus Activities
- National Catholic Education Association
- National Catholic Guidance Conference
- National Collegiate Athletic Association
- National Collegiate Honor Council
- National Conference of Teachers’ Educational and Professional Standards
- National Council of Teachers of Mathematics
- National Entertainment Council
- National Institute of Financial Aid Administrators
- National Intramural Recreational Sports Association
- National Science Teachers Association
- National Student Teacher Association
- New York Library Association
- New York State Association of College Music Programs
- New York State Association for Intercollegiate Athletics for Women
- New York State Council of School District Administrators
- New York State Financial Aid Administrators
- New York State Financial Aid Administrators-Region I
- New York State Foundations of Education Association
- New York State Historical Association
- Pennsylvania Association of Colleges of Teacher Education
- Provincial Campus Ministry Association
• Public Relations Society of America
• Radio and Television News Directors Association
• University Council for Educational Administration
• Western New York Consortium of Higher Education
• Western New York Library Resources Council
• Wilderness Education Associate

Accrediting and licensing documents may be reviewed by appointment with the Office of the President.
ADMISSIONS

Application Procedure
Applicants are urged to submit the application for admission and complete credentials well in advance of the semester for which they seek admission. Acceptance is based on evidence of potential for successful study. The following criteria are considered: curriculum related to rigor of program and grades achieved in secondary school, standardized test scores, extracurricular activities and recommendations.

Minimum course preparation should include three years of math, three years of science, four years of history (social studies), two years of language and four years of English.

Prospective students are strongly urged to come to the campus for an interview and tour. Please contact the Office of Admissions to arrange for an appointment.

The decision of the Admissions Committee will be sent after all credentials have been received. Final acceptance takes place after receipt of a completed medical form, a confirmation fee, and the successful completion of high school.

Admission Requirements for Secondary School Students
Applicants who wish to begin college in the fall semester should apply during the fall term of the senior year in high school. Students graduating at mid-year who wish to begin college in the spring semester should apply no later than Dec. 1st.

An applicant must arrange for an official high school academic transcript to be submitted to the Office of Admissions. The results of either the Scholastic Aptitude Test (SAT) or the American College Testing (ACT) battery must be sent.

Franciscan Health Care Professions Dual-Admission/Dual-Degree Program
High school seniors seeking admission to St. Bonaventure University’s dual-admission/dual-degree programs of study must first apply to the University and the Franciscan Health Care Professions Program. The application must include a focused personal essay that explains the applicant’s decision to pursue the profession of medicine. A resume that demonstrates the applicant’s experiences and exposure to the chosen field of study, volunteer and community service, shadowing experience with health care providers/pharmacists and any structured introductory health care programs at his or her high school is also required.

Applicants must also submit a minimum of two letters of recommendation, at least one of which must be from a Science teacher. Students accepted into any of the Franciscan Health Care Professions programs must maintain academic and comportment requirements.

Giant Step
Giant Step is a program designed to provide an opportunity for qualified secondary school students to enroll in college-level courses prior to the completion of their high school education. Students will be allowed to take up to six hours per semester. The students will be required to pay $200 per credit hour, subject to change.

All secondary students who meet the following criteria are eligible for consideration:

1. Students must be at least a first-semester senior to participate.
2. Students must be enrolled in a program in which they have achieved, or are achieving, the normal requirements for admission to the University.
3. Students must be recommended by their high school counselor or principal.
4. Students must submit an application with the Office of Admissions.

Admission Requirements for Giant Step:
1. Giant Step application
2. Official high school transcript
3. Recommendation by high school principal or guidance counselor

Higher Education Opportunity Program (HEOP)
Co-sponsored by New York State, this program is administered by St. Bonaventure University to meet the needs of students who, because of educational and economic circumstances, would otherwise be unable to attend a private or independent college. Students who qualify receive tutorial and remedial assistance as well as counseling and financial support. Applications should be submitted to the Office of Admissions. Anyone desiring further information about this program may contact the director of HEOP at (716) 375-2402.

Senior Citizen Program
St. Bonaventure University invites senior citizens to enroll in undergraduate, graduate, and continuing education courses for a nominal charge. The privilege is extended to eligible persons 60 years of age or older. The cost of tuition varies depending on the individual’s application status: auditor, non-matriculant, or matriculant. Regardless of the application status, an individual is responsible for the cost of books and supplies as may be needed for a course.

Applicants must procure the senior citizen application form from the Office of Admissions. This form should be completed and returned prior to registration day of the session for which the applicant intends to enroll.

International Students
Applicants from foreign countries are urged to complete their applications at least five months before they plan to enroll. In addition to the information required for secondary school students, one of the following also applies:

Incoming Freshman with no prior college or university courses taken

Transcripts
Admissions currently does not require a WES (or equivalent) international credential evaluation of high school (secondary school) transcripts for undergrad admission; however, transcripts must be translated into English and must be sent to St. Bonaventure Admissions directly from your high school. A WES may be required if the provided transcript is insufficient for translation.
Test Scores
TOEFL, IELTS, SAT or ACT required. If student takes the SAT, reading score must be higher than 480 to waive the TOEFL or IELTS. If student takes the ACT, reading score must be higher than 21. If reading score is below a 480 on the SAT or below a 21 on the ACT, each case will be reviewed by admissions on an individual basis. Some cases may warrant requesting the student to also take TOEFL or IELTS to ensure adequate English proficiency.

Incoming student, attended college or university in a country other than the United States
If a student has studied at a university in a country other than the U.S., no administration fee will be charged. No administration fee will be charged.

Applicants from countries where English is not the official language and/or prior schooling was not completed in English need to provide results for either the TOEFL, IELTS, SAT or ACT. If student takes the SAT, the reading score must be higher than 480 to waive the TOEFL or IELTS. If student takes the ACT, the reading score must be higher than 21. If the reading score is below a 480 on the SAT or below a 21 on the ACT, each case will be reviewed by admissions on an individual basis. Some cases may warrant requesting the student to also take TOEFL or IELTS to ensure adequate English proficiency. All students must provide a test score and a secondary school transcript in addition to their international university transcript if university credit totals less than 24 credits (U.S.)

Incoming student, attended college or university in the United States
If an international student has studied at a U.S. college or university, the student is considered a transfer, and therefore the usual transfer requirements apply. All students must provide a test score and a secondary school transcript in addition to their international university transcript if university credit totals less than 24 credits (U.S.)

A student who has been accepted is required to show proof of finances and pay the $200 non-refundable confirmation deposit prior to the issuance of an I-20 form. The student must take the I-20 and valid passport to the U.S. Consulate or embassy and apply for an F-1 student visa. The International Student Services Office issues the I-20 form, and assists students with details related to planning and preparing for a program at St. Bonaventure.

Re-Enrollment
Previously registered students who wish to resume studies at St. Bonaventure University after an absence of one or more semesters must apply for re-enrollment through the Registrar’s Office. Students seeking re-enrollment after having attended another higher education institution in the interim must have all complete official transcripts from these institutions sent to the Registrar’s Office. Students seeking re-enrollment as degree candidates after previous enrollment in non-degree status must submit any entrance requirements not previously submitted.

Confirmation Deposit
After notification of acceptance, a $200 confirmation deposit is required of all full-time undergraduate students, including those readmitted. The deposit is a down payment for the semester’s tuition and is not refundable.

Credit by Examination
St. Bonaventure University grants undergraduate credit for satisfactory performance, a grade equivalent to C, on examinations given through the Advanced Placement Exams, College Proficiency Examination, the American College Testing Program’s Proficiency Examination and the College-Level Examination Programs.

In those cases where a standard proficiency examination does not exist, a departmental examination, approved by the chair of the department and appropriate academic dean, may be administered. The Registrar will consider requests for credits only from matriculated students and applicants for matriculation at the University. Credit is granted but not quality points. The granting of credit is contingent upon the following conditions and limitations.

1. Formal written request must be made and all credentials presented.
2. There must be an equivalency between material covered in an examination and courses offered by the University as part of a degree program or as permissible electives.
3. Credit granted will not exceed that assigned to the course as listed in the University catalog.
4. The maximum credit allowed through CPE, CPEP, REDP, CLEP or similar programs, either singly or in combination, is 30 hours.
5. Credit for no more than three courses may be applied to a student’s major field of concentration.
6. A fee of $5 per course must be paid to cover administrative costs in the case of credit earned through standardized examinations.
7. Full tuition charges at the per-credit-hour rate will be levied for credit received through departmental proficiency examinations unless such credit when added to other credit received that semester, totals between 12 and 18 hours in which case the normal semester tuition will be charged. No administration fee will be charged.

The University will, in addition to the above, consider granting advanced placement and/or college credit to those applicants who earn a minimum score of three or better on approved CEEB Advanced Placement Examinations.

Advanced Placement

<table>
<thead>
<tr>
<th>Test</th>
<th>Score</th>
<th>SBU Tests Equivalent</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History</td>
<td>3</td>
<td>HIST-201, HIST-202</td>
<td>6</td>
</tr>
<tr>
<td>American/Comparative Politics</td>
<td>3</td>
<td>POLS-9999</td>
<td>3</td>
</tr>
<tr>
<td>Art History</td>
<td>3</td>
<td>ARTH-101, ARTH-102</td>
<td>6</td>
</tr>
<tr>
<td>Art: Studio General</td>
<td>3</td>
<td>VA-111 or VA-121</td>
<td>3</td>
</tr>
<tr>
<td>Art: 2-D Design</td>
<td>3</td>
<td>VA-9999</td>
<td>3</td>
</tr>
<tr>
<td>Subject</td>
<td>Credits</td>
<td>Course Code</td>
<td>Equivalent Credits</td>
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<tr>
<td>-------------------------</td>
<td>---------</td>
<td>-------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5</td>
<td>CHEM-101, CHEM-102</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>CHEM-101</td>
<td>3</td>
</tr>
<tr>
<td>Chinese Lang. &amp; Culture</td>
<td>3</td>
<td>CHIN-101, CHIN-102</td>
<td>6</td>
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<td></td>
<td>4</td>
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<td>12</td>
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<td>Computer Science A</td>
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<td>CS-131</td>
<td>4</td>
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<tr>
<td>English Lang. &amp; Comp.</td>
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<td>ENG-101</td>
<td>3</td>
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<tr>
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<td>4</td>
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<tr>
<td>English Lit. &amp; Comp.</td>
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<td>ENG-103, ENG Elective</td>
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<td>BIO-112</td>
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<td>European History</td>
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<td>HIST-101, HIST-102</td>
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<tr>
<td>French Language</td>
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<td>French Literature</td>
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**CLEP Scores**

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<th>Test</th>
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<th>Course Equivalent</th>
<th>Credits</th>
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<td>Composition and Literature</td>
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<tr>
<td>American Literature</td>
<td>50</td>
<td>ENG-220 &amp; ENG-221</td>
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<tr>
<td>Analyzing &amp; Interpreting Literature</td>
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<td>ENG-103</td>
<td>3</td>
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<td>College Composition</td>
<td>50</td>
<td>ENG-101A</td>
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<td>College Composition Modular</td>
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</tr>
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</table>
Transfer Students

Undergraduate students from other accredited institutions may apply to St. Bonaventure University. Transfer students must be in good academic and disciplinary standing.

The following items need to be submitted for transferring:

1. Application for admission
2. High school records/GED
3. Official transcripts from all other institution attended

Candidates for advanced standing should have satisfactorily completed college-level courses at a university, college, junior college, or community college accredited by the Council for Higher Education Accreditation. Foreign institutions must be recognized by the Ministry of Education in their home country. Credit may be awarded for coursework as recommended by the American Council on Education. No credits will be awarded for vocational or technical coursework. Transfer candidates are admitted to the University for both the fall and spring semesters and for summer sessions.

Students who have earned a cumulative GPA of 2.5 (out of 4.0) or above at their previous institution(s) will be reviewed for admission and admitted to the institution when the Office of Admissions is satisfied that the applicant has presented all criteria for admission, and credit granted for all previous coursework in which they have received a passing grade. For students with below a 2.5 cumulative GPA in previous coursework, admissions decisions, and the granting of transfer credit, for any courses in which they have received a grade below “C,” will be based upon the review and recommendation of the transfer coordinator and dean of the School to which they have applied; approval of transfer credit will be in accordance with established policies.

In all degree programs, the University requires students to complete the General Education requirements. Transfer students will be granted course credit as follows for coursework taken prior to matriculation:

- **Historical Studies Distribution** – an appropriate 3-credit world, European or American history course
• **Social Science Distribution** – an appropriate 3-credit psychology, sociology, political science, or economics course
• **ENG-101 and ENG-102** – two appropriate 3-credit introductory writing courses at least at the 100 level
• **Franciscan Studies/Theology Distribution** – an appropriate 3-credit theology or religious studies course
• **Required course with a “D” for Diversity** – an appropriate 3-credit course with content reflective of a multi-cultural perspective
• **Literature & The Visual Performing Arts Distribution** – an appropriate 3-credit art, music, theater, or literature course
• **Natural Science with Lab Distribution** – an appropriate 4-credit science lab course
• **Philosophy Distribution** – an appropriate 3-credit philosophy course
• **PHIL-104 (Ethics)** – an appropriate 3-credit course with content reflective of Ethics
• **Intensive Writing (W)** – an appropriate 3-credit course that fulfills the learning objectives related to intensive writing
• **Quantitative Reasoning Distribution** – an appropriate 3-credit quantitative literacy course
• **SBU-101** a 2-credit requirement; all transfer students will be required to take a version of this

All students who transferred to St. Bonaventure University must take THFS-101: The Way of Francis and Clare (unless they transfer an equivalent course from a Franciscan Institution).

Students who have earned an Associate in Arts or Associate in Science Degree will be considered to have satisfied the following requirements of the General Education Requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBU-101</td>
<td>COMMUNITY OF LEARNERS</td>
<td>2</td>
</tr>
<tr>
<td>SBU-102</td>
<td>AN INTRODUCTION TO CONTEMPORARY DIVERSITY</td>
<td>1</td>
</tr>
<tr>
<td>ENG-101</td>
<td>WRITING I</td>
<td>3</td>
</tr>
<tr>
<td>ENG-102</td>
<td>Writing II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Distributions**

<table>
<thead>
<tr>
<th>Historical Studies</th>
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</thead>
<tbody>
<tr>
<td>Literature and the Visual and Performing Arts</td>
</tr>
<tr>
<td>Natural Science with a lab</td>
</tr>
<tr>
<td>Social Science</td>
</tr>
<tr>
<td>Philosophy</td>
</tr>
<tr>
<td>Quantitative Literacy</td>
</tr>
<tr>
<td>Franciscan Studies/Theology</td>
</tr>
</tbody>
</table>

Students who have earned an Associate in Arts or Associate in Science Degree must demonstrate that their coursework has fulfilled the following requirements if they want to be exempted from this graduation requirement:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL-104</td>
<td>INTRODUCTION TO ETHICS</td>
<td>3</td>
</tr>
</tbody>
</table>

One course from each designation:

- Intensive Writing (W)
- Diversity (D)

All decisions regarding transfer credit will be made by the appropriate academic dean and confirmed by the Registrar, subject to the approval of the Vice President for Academic Affairs. Please note that the above policy does not apply to matriculated students or those who seek readmission to SBU.

Quality points are not transferred, and hence, the cumulative index or grade point average for graduation is computed only on the basis of quality points earned at St. Bonaventure. A student must complete no fewer than 45 undergraduate credit hours at St. Bonaventure.

**Classification of Students**

Students are classified in one of two ways:

1. **Regular-recognized as matriculated (a degree candidate), either as a full-time student (carrying 12 credit hours or more) or as a part-time student (less than 12 hours).**
2. **Non-Matriculating-credits for courses taken are not applicable to a St. Bonaventure degree. This includes those taking courses, the credit for which will be transferred to another institution which has given the student written permission to take the courses.**

**Center for Student Wellness**

Medical History/Physical Record. Conditions of enrollment at the University include submission of the student’s medical history and physical record. Students will not be able to register for classes and will be restricted from the room selection process if their medical record is not on file with the University Center for Student Wellness. The record is required for the benefit of the student. New York State Public Health Law 2165 requires specific immunizations.
AWARDS AND HONORS

General Honors

St. Bonaventure University grants three grades of distinction to graduates whose cumulative index of academic scholarship indicates leadership and high scholastic attainment.

• Summa Cum Laude – when the index is 3.90 or above
• Magna Cum Laude – when the index is 3.60 to 3.89
• Cum Laude – when the index is 3.25 to 3.59

Dean's List

All full-time undergraduate students who have an academic index of 3.50 or better in the previous semester may be included in the Dean's List. The name of any student may be withdrawn at any time by the Vice President for Academic Affairs if the student fails to maintain a satisfactory standard of scholarship and conduct.

Honor Societies

To be eligible for membership in an honor society a student must have been in residence for at least two years (four semesters), or have earned at least 60 credit hours, and must be of good character and show promise of leadership.

• Alpha Delta Sigma is the honor society of the American Advertising Federation.
• Alpha Mu Alpha is the marketing honor society.
• Alpha Psi Omega is the National Theater Honor Society.
• Beta Gamma Sigma is the national honor society for business students in AACSB-accredited schools.
• Chi Alpha Epsilon, Zeta Epsilon Chapter - Chi Alpha Epsilon was formed to recognize the academic achievements of students admitted to colleges and the universities through non-traditional criteria such as Educational Opportunity Programs.
• Delta Epsilon Sigma is the national scholastic honor society for students in Catholic colleges and universities.
• Kappa Delta Pi in an international honor society for students in education. The University's Xi Nu Chapter is open to juniors and seniors whose overall GPA is 3.25 or better.
• Kappa Tau Alpha is the national honor journalism/mass communication society with members limited to those students in the top 10 percent of their class based on their overall indices.
• Phi Alpha Theta is an international honor society for students in history.
• Phi Eta Sigma is the national honor society for college freshmen who have a cumulative grade point average of 3.5 or higher at the close of a full-time curricular period during their first year.
• Pi Delta Phi-Eta Theta Chapter is the national honor society for students of French.
• Pi Gamma Mu is the international honor society in social science. History and sociology majors are also eligible to join.
  • Membership includes:
    • lifetime membership
    • a certificate and a gold-plated key pin
    • a subscription to the Pi Gamma Mu Newsletter and to the International
    • Social Science Review

Societies

These organizations provide the student with an opportunity to meet fellow students in mutual bonds of friendship and achievement. These are:

• Alpha Kappa Mu - for students pursuing the bachelor of science degree in the School of Arts and Sciences.
• American Advertising Federation - St. Bonaventure Chapter, Student Affiliate.
• American Chemical Society - St. Bonaventure Chapter, Student Affiliate.
• Gold Bar Club is a professional society for ROTC students, but is open to the entire student population.
• Iota Delta Alpha - for students pursuing the bachelor of science degree in the School of Arts and Sciences.
• Society of Professional Journalists is the national professional journalism and mass communication society, open to undergraduates with above-average academic standing who have participated in professional or collegiate media, or both.
• Student Section - St. Bonaventure Chapter of the Society of Physics Students.

Awards

St. Bonaventure University each year grants the following honors and awards for outstanding scholarship and achievement:

• The Ideal Bonaventure Man. This honor is awarded to a male senior who, in the judgment of a Committee on Student Affairs, eminently exemplifies the values and qualities — personal, social, academic and spiritual — which the University aims to develop in all its male students.
• The Ideal Bonaventure Woman. This honor is awarded to a female senior who, in the judgment of a Committee on Student Affairs, eminently exemplifies the values and qualities — personal, social, academic and spiritual — which the University aims to develop in all its female students.
• General Excellence in the Arts Curriculum. This is an honor awarded to the senior who maintained the highest academic standing in an arts program during four years at the University.
• General Excellence in the Science Curriculum. This is awarded to the senior who maintained the highest academic standing in a science program during four years at the University.
• General Excellence in the Business Curriculum. This is awarded to the senior who maintained the highest academic standing in a business program during four years at the University.
• General Excellence in the Education Curriculum. This award is presented to the senior who maintained the highest academic
standing in elementary education or physical education during four years at the University.

- **General Excellence in the Journalism/Mass Communication Curriculum.** This award is presented to the senior who maintained the highest academic standing in journalism/mass communication during four years at the University.

- **Overall Excellence in Health Science.** The recipient of this honor has been chosen by the Faculty of the School of Health Professions based on their excellent academic achievement.

- **General Excellence for a Transfer Student.** This award is presented to the senior transfer student who maintained the highest academic standing during their time at the University.

- **The John J. McNamee Award for General Excellence in the Elementary Education Curriculum.** This is an honor awarded to the senior judged by the faculty of the School of Education to be outstanding in scholarship and achievement in elementary education.

- **The John J. McNamee Award for General Excellence in the Physical Education Curriculum.** This is an honor awarded to the senior judged by the faculty of the School of Education to be outstanding in scholarship and achievement in physical education.

- **The Overall Excellence in Sports Studies Award.** This is an honor awarded to the senior judged by the faculty of the Department of Physical Education to be outstanding in service and academic achievement in Sports Studies.

- **The Al Nothem Student Teaching Award in Elementary Education** is awarded annually to an exceptional graduating senior in Elementary Education.

- **The Al Nothem Student Teaching Award in Physical Education** is awarded annually to an exceptional graduating senior in Physical Education.

- **The Al Nothem Student Teaching Award in Adolescence Education** is awarded annually to an exceptional graduating senior in Adolescence Education.

- **The Sister Margaret Flynn, O.S.F., Award** is given to the outstanding transfer elementary education student.

- **Senior Theology Award.** This is given to the senior who has shown general excellence in theology courses for four years.

- **The Boyd Litzinger Award** is awarded to the senior who, in the judgment of the Department of English, has done outstanding work in English for four years.

- **The Sister Mary Anthony Brown Philosophy Award** is presented to the senior who has demonstrated general excellence in philosophy courses.

- **The S.C. Cornelio Award** is presented to an outstanding senior who will be attending law school.

- **The John M. Orland Philosophy Pre-Law Award** is to be awarded each year to the graduating senior whose record best demonstrates academic excellence in philosophy of law combined with meritorious service to the Bonaventure community.

- **The Latin Award** is awarded to the sophomore who has done outstanding work in Latin courses for two years.

- **The Malcolm V.T. Wallace Award for Latin** is presented to an outstanding undergraduate in Latin.

- **The Greek Award** is given to the sophomore who, upon recommendation of the Classical Language Department, has accomplished general excellence in Greek.

- **The Father Roderick Wheeler Award** is presented to the outstanding senior history major.

- **The Jandoli Award for Outstanding Achievement in the Journalism Curriculum** is awarded to a senior who, in the judgment of the Jandoli School of Communication, has excelled in the area of journalism in an outstanding manner.

- **The Mark Hellinger Award** established in 1960, is granted annually to the senior in the Jandoli School of Communication who, in the judgment of the faculty, has demonstrated academic excellence and genuine promise in the area of mass communication and journalism. A monetary award is also given.

- **The Koop Award for Outstanding Achievement in the Broadcast Curriculum** goes to a senior who has excelled in the area of broadcast in an outstanding manner.

- **The Mosser Award for Outstanding Achievement in the Strategic Communication Curriculum** goes to a senior who has excelled in the area of strategic communication in an outstanding manner.

- **The Mary A. Hamilton Woman of Promise Award** recognizes the Jandoli School of Communication female student who has excelled in and out of the classroom, set an example for peers and demonstrated great promise for success in future endeavors.

- **The Father Cornelius Welch Award for Achievement in Photography** goes to a senior who has excelled in achievements in photography.

- **The Military Science Award** is presented to the senior who, upon the recommendation of the Department of Military Science, demonstrated outstanding leadership and academic excellence in his or her military science courses for four years.

- **The Instrumental Music Award** is given to the senior who has demonstrated general excellence in instrumental musical activities for four years.

- **The Choral Music Award** is given to the senior who has demonstrated general excellence in choral music activities for four years.

- **The Theater Award** is given to the student or students who have demonstrated dedication and excellence in SBU Theater production and the study of theater.

- **The Visual Arts Award** is given to the senior who has demonstrated general excellence in visual arts activities for four years.

- **The Biology Award** is presented to the biology senior who, upon the recommendation of a departmental committee, demonstrated general academic excellence and specific accomplishment in the field of biology.

- **The John L. and Leone E. Worden Award** is given to a Biology or Biochemistry junior demonstrating exceptional academic performance. The award supports mentored undergraduate research during the senior year at St. Bonaventure University.

- **The Mathematics Award** is given to the senior who, upon the recommendation of the department of mathematics, has demonstrated general excellence in mathematics throughout their undergraduate career.

- **The Computer Science Achievement Award** is given to the senior who, upon the recommendation of the department of computer science, has demonstrated general excellence in computer science for four years.

- **The Computer Science Service Award** is given to the senior who, upon the recommendation of the department of computer science, assisted the department by assuming duties critical to the success of the program.

- **Pi Delta Phi Award** - French Honor Society is given to the senior who has contributed unselfishly to the chapter and has shown general excellence in French.
Awards and Honors

- **Modern Language Awards** are given to senior majors in French and Spanish who, in the judgment of the department, have shown outstanding achievement in the literature and language of their major.
- **Sigma Delta Pi Award** - Spanish Honor Society is given to the senior who has contributed unselfishly to the chapter and has shown general excellence in Spanish.
- **The Sigma Pi Sigma Award** is granted to the outstanding senior physics major of the graduating class, upon a vote of the department staff.
- **The International Studies Award** is awarded to the senior who has done outstanding work in International Studies.
- **The Carl Wagner Psychology Honors Award** recognizes distinguished participation in the psychology program.
- **The Alpha Gamma Psi Award** is given to the senior psychology major who has shown excellence in course work for four years.
- **The Political Science Award** is given to the outstanding senior majoring in political science.
- **The Thomas A. Augustine Award**, established by Rosella Augustine in memory of her brother, a former faculty member, is presented annually to a major in sociology, history, social science or journalism/mass communication who is recommended by the appointed committee.
- **American Chemical Society Penn-York Section Excellence in Chemistry Award** is given to a senior who has demonstrated general excellence in chemistry.
- **American Institute of Chemists Award** is an award given to the senior who has maintained the highest rank in all the courses offered by the department of chemistry.
- **The Dr. Pierre R. Bretey Award** is presented to a senior student majoring in finance who attains the highest academic standing.
- **The John G. Watson Award for Business Leadership** is given to a senior who has attained a high cumulative academic index in the School of Business and has demonstrated exceptional leadership qualities.
- **The S. John Guson Award** is presented annually to the senior student majoring in accounting who, in the opinion of the faculty has made the greatest contribution to enhancing the program.
- **The Accounting Excellence Award** is given to an outstanding senior majoring in accounting.
- **The Y.S. Pandit Award** is given to a graduating student who, through industry and perseverance, exhibits a sense of responsibility to achieve excellence in the field of business administration and economics.
- **The New York State Society of CPAs Senior Award of Honor** is given to the senior who has achieved outstanding academic distinction in accounting.
- **The Outstanding Transfer Student in Accounting Award**
- **The Austin Finan Award in Finance** is presented to a senior student majoring in finance who shows academic excellence in finance.
- **The Dr. John H. Burns Award for Excellence in Finance** is awarded to a senior who maintains academic excellence in finance during his or her four years at the University and shows a commitment to the Franciscan spirit.
- **Award for Overall Excellence in Marketing**. The intent of the award is to recognize overall student excellence in marketing. The minimum requirements include senior standing with grade point average above 3.0, both overall and in marketing. The student should have successfully completed at least 45 credit hours at SBU and must show evidence of significant participation in extracurricular activities. The student should not be the recipient of another award for overall excellence in the School of Business.
- **The Margaret T. Bryner HEOp Award** is given to the graduating senior who has made a significant contribution to the Arthur O. Eve Higher Education Opportunity Program (HEOP), demonstrated exemplary academic achievement and contributed to the university community.
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ACCOUNTING (ACCT)

ACCT-201 INTRO TO FINANCIAL ACCT (3 Credits)
A fundamental course which presents accounting as the language of business, and defines basic assumptions, principles and concepts. The objective of the course is to learn the basic concepts related to the preparation and analysis of financial statements.

ACCT-202 INTRO TO MANAGERIAL ACCT (3 Credits)
The primary objective of this course in managerial accounting is for students to learn about managerial accounting as a support system for business decisions. The course will introduce students to the basics of managerial accounting information; explain its use in costing products and services; and explain its use in decision making, planning and controlling the business environment.
Prerequisite(s): Take ACCT-201

ACCT-301 INTERM.FINANCIAL REPORTING I (3 Credits)
A detailed study of the corporate financial statements and related accounting problems. The financial reporting environment, structure of the financial statements, and income recognition issues are discussed in detail. In addition, financial statement analysis is emphasized.
Prerequisite(s): Take ACCT-201 ACCT-202

ACCT-302 INTERM FIN. REPORT. II (3 Credits)
A continuation of ACCT 301, this course studies the following topics: receivables, inventories, long-lived assets & depreciation, financial instruments and leases.
Prerequisite(s): TAKE ACCT-301, ACCT-350

ACCT-303 INTERM FIN. REPORT. III (3 Credits)
A continuation of ACCT 302, this course includes the study of accounting and the statement of cash flows for income taxes, pension costs, earnings per share.
Prerequisite(s): Take ACCT-302

ACCT-305 ACCT INFO SYSTEMS (350) (3 Credits)
An introduction to accounting information systems utilizing basic information systems theory. Systems analysis and design techniques and systems auditing methods will be used to evaluate accounting systems in use in industry today. Several software packages will be used in a lab setting to provide 'Real World' experiences. Topics include a discussion of accounting transaction cycles, internal computer accounting controls, computer crime, systems auditing, systems analysis and design, DSS and business ethics. A total systems approach will be used throughout the course.
Prerequisite(s): ACCT-201 & IT-120 or IT-280A

ACCT-308 ADV MANAGERIAL ACCOUNTING (3 Credits)
A comprehensive survey of current issues and concepts involved in management accounting. Topics will encompass issues applicable to all types of organizations, including manufacturing, merchandising, service and not-for-profit organizations. Product and service costing, cost allocation methods and business decisions using cost data comprise the course requirements.
Prerequisite(s): Take ACCT-201 ACCT-202

ACCT-310 INTRO. TO TAXES (3 Credits)
An analytical study of the federal income tax statutes and regulations relating to the taxation of individuals, partnerships, and corporations. Topics of discussion will include general concepts of gross income, business and non-business deductions, tax accounting methods and taxable periods, and gains and losses on dispositions of property. Students will prepare individual tax returns and engage in tax research projects related to course topics.
Prerequisite(s): Take ACCT-201

ACCT-350 ACCT INFO SYSTEMS (3 Credits)
An introduction to accounting information systems utilizing basic information systems theory. Systems analysis and design techniques and systems auditing methods will be used to evaluate accounting systems in use in industry today. Several software packages will be used in a lab setting to provide 'Real World' experiences. Topics include a discussion of accounting transaction cycles, internal computer accounting controls, computer crime, systems auditing, systems analysis and design, DSS and business ethics. A total systems approach will be used throughout the course.
Prerequisite(s): Take ACCT-201 CS-120

ACCT-360 FRAUD EXAMINATION (3 Credits)
This course takes a theoretical and practical focus on the detection, investigation and prevention of financial statement (management) fraud and occupational (employee) fraud including embezzlement, white-collar crime, and corruption. Topics include the evaluation of internal control systems, fraud investigation methods, accounting systems and cycles, the detection of fraud, accounting principles, fraudulent financial statement schemes, and auditor-fraud examiner responsibilities. The course also reviews the Sarbanes-Oxley Act and Statement on Auditing Standards No. 99 as they represent critically important fraud relation legislation and directives. The ultimate purpose of this course is to make students aware of how fraudulent activities are committed and the methods that can be utilized in preventing and detecting them.
Prerequisite(s): TAKE ACCT-202

ACCT-361 INTERM FIN REPORT I(302) (3 Credits)
First of a two semester sequence studying the accounting theory and principles applied in the preparation of financial statements under both US GAAP and IFRS. This course studies the following topics: cash, receivables, inventories, long-lived assets and depreciation, financial instruments and revenue recognition.
Prerequisite(s): TAKE ACCT-202, ACCT-201

ACCT-362 INTERM FIN REPORT II (3 Credits)
A continuation of ACCT 361, this course largely studies topics related to liabilities and equity. Examples of these topics are bonds, deferred taxes, pensions, leases, and earnings per share.
Corequisite(s): TAKE ACCT-305 ACCT-361

ACCT-399 ACCOUNTING INTERNSHIP (0 Credits)
A practical on-the-job experience in the area of Accounting whereby students are employed by organizations in an environment that will supplement their formal education. Each internship is individually arranged and must be approved in advance by the internship director and the student’s adviser. Internships may be taken during the school year or during the summer months. Students are evaluated by the organization for which they worked. All accounting majors are required to complete a minimum 400-hour, non-credit internship as part of degree requirements. Internships are graded on the P, F system.

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A minimum 400-hour, non-credit internship as part of degree requirements.
For which they worked. All accounting majors are required to complete a minimum 400-hour, non-credit internship as part of degree requirements.
Internships are graded on the P, F system.
ACCT-401 ADV FINANCIAL REPORTING (3 Credits)
A comprehensive study of business combinations and consolidated statements with special emphasis given to accounting for acquisitions through purchase and pooling of interests. Also, foreign operations, financial reporting for industry segments and interim financial reporting will be covered.
Prerequisite(s): Take ACCT-362

ACCT-402 ADV. ACCOUNTING II (3 Credits)
This course studies: accounting for state and local governments, partnerships, college and university accounting, hospital accounting, VHW accounting, corporate reorganizations and liquidations, and estates and trusts.
Prerequisite(s): Take ACCT-362

ACCT-403 INT'L ACCOUNTING (3 Credits)
A study of accounting from an international viewpoint. This course will cover the development of various accounting methodologies, reporting standards, taxation concepts, auditing environments, performance evaluation techniques, and corporate governance concerns. Particular emphasis is placed on similarities and differences between U.S. GAAP and IFRS. The course includes several case assignments to allow students to apply their acquired knowledge.
Prerequisite(s): Take ACCT-201

ACCT-404 ADVANCED TAXES (3 Credits)
A study of federal tax laws concerning advanced individual taxation concepts, business entities and their owners, and acquisition and disposition of property. A particular emphasis is placed on the tax concept of basis. Students will prepare entity tax returns and engage in tax research and tax planning projects related to course topics.
Prerequisite(s): Take ACCT-310

ACCT-405 AUDITING (3 Credits)
The theory and practice of the verification on accounting records in order to formulate an opinion on the fairness of financial statements will be studied. Attention will be given to auditing standards and procedures, internal control, audit sampling, professional ethics and the legal responsibilities of the accountant.
Prerequisite(s): ACCT-362, ACCT-308

ACCT-420 FINANCIAL STMT ANALYSIS (3 Credits)
This course is the accounting capstone course. As such it emphasizes using accounting information for effective decision making. This course includes topics in not-for-profit accounting from the government and non-government sectors. It also includes advanced coverage of financial statement analysis. Students will further develop analytical and communication skills to demonstrate an understanding of and ability to communicate complex financial reporting issues.
Prerequisite(s): Take ACCT-362
Restrictions: RG.86+

ACCT-498 IND STUDY & RESEARCH (1-3 Credits)
Research in selected topics in accounting under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

ACCT-499 INDEPENDENT STUDY (1-3 Credits)
A well-defined course of study in specific topics in accounting that go beyond the regular course offerings.

ACCT-499B AUDIT THEORY & CASE STUDY (3 Credits)
Corequisite(s): Take ACCT-201

ACCT-499V SPECIAL TOPICS: VITA PREPARATION (1 Credit)
Corequisite(s): ACCT-310

ACCT-499VV SPECIAL TOPICS: ADVANCED VITA PREP (1 Credit)
Corequisite(s): ACCT-310, ACCT-499V
ART HISTORY (ARTH)

ARTH-101 SURVEY OF WESTERN ART I (3 Credits)
This course introduces the material cultures of early western civilizations and peoples, covering developments in painting, sculpture, and architecture from prehistory through the Middle Ages. Art and architecture from, e.g., the Stone Age, Near East, Egypt, Aegean, Greece, and Rome, will be presented, as well as from the early Christian, Byzantine, Islamic, Medieval, and Gothic traditions. Lectures and discussions will focus upon the way that art reflects culture, and is informed by social, political, and religious influences.

ARTH-102 SURVEY OF WESTERN ART II (3 Credits)
This course examines artistic expression in Western civilization, beginning with the Renaissance and ending with the Modern period, while being attentive to the role of the artist in the history of art. Lectures and discussions will present major works and artists, and will also focus upon the way that art reflects culture, and is informed by social, political, religious, economic, and geographical influences.

ARTH-103 SURVEY OF NON-WESTERN ART (3 Credits)
This course is an introduction to art from around the world, which covers the history of three geographic regions that have historically been categorized as ‘Art of the Non-Western Traditions’-Africa, Pre-Columbian/Indigenous Arts of Meso- and North America, and the Art of the South Pacific/Oceania. The emphasis of the course is to develop an awareness, understanding, and appreciation of various art forms from cultures scattered around the world that have existed for thousands of years, representing multiple distinct lines of development.

ARTH-231 JAPANESE WOODBLOCK PRINTS (3 Credits)
This course will explore the genre of Japanese woodblock prints, known collectively as ukiyo-e, which literally means ‘pictures of the floating world’, a reference to the world of pleasures in urban Edo (present day Tokyo) during the Edo period (1603-1868). The development of the ukiyo-e prints in the 17th century, the ‘Golden Age’ of the late 18th and early 19th century, and in the decadence period of the 19th century will be traced. Various subjects will be examined such as the courtesans, popular actors, warriors and heroes, ghost stories, court classics, parody, shunga (erotic prints) and landscapes. Lectures will focus on the printing methods, the artistic styles of individual artists and their particular school, the relationships between artists and publishers, patronage, the commercial system of distribution and circulation, and government censorship. The course will demonstrate how Japanese literature, theater, poetry and manga (comics) are relevant to the world of ukiyo-e.

ARTH-232 JAPANESE FILM (3 Credits)
This course examines the history and aesthetics of Japanese film, focusing on the ways in which Japanese film responded to, and developed independently of, American cinema. The work of the three greatest Japanese directors- Yasujiro Ozu (1903-1963), Kenji Mizoguchi (1898-1956), and Akira Kurosawa (1910-1998) will be emphasized, focusing on recurring narratives, themes, styles, and aesthetic traditions. The work of some modern and contemporary filmmakers will also be studied, compared, and contrasted to earlier traditions.

ARTH-234 ART OF THE NORTHWEST COAST (3 Credits)
This course is an introductory survey of the arts of the indigenous peoples of the Northwest Coast of North America, primarily of southern Alaska, British Columbia, Canada and the states of Washington and Oregon. The diversity and evolution of the basic art forms found in Northwest Coast art, from prehistoric to contemporary times, will be studied, with a focus on the function and meaning of the art in cultural and ceremonial contexts. The role of native artists of the Northwest Coast in expressing and maintaining a cultural and artistic identity also will be considered.

ARTH-301 GREEK ART AND ARCHAEOLOGY (3 Credits)
The course examines the vase painting, sculpture, architecture, and other archaeological materials from ancient Greece, from the Bronze Age to the end of the Hellenistic Period. Emphasis will be placed upon stylistic analyses. Included are works from Crete, the Cyclades, the Greek mainland, and Greek colonies.

ARTH-302 ROMAN ART AND ARCHAEOLOGY (3 Credits)
The course examines the painting, sculpture, architecture, and other archaeological materials of Italy and the Roman Empire from the time of the Etruscans to Constantine the Great. Emphasis will be placed upon the political and social role of art and architecture in ancient Rome, the dissolution of classical art, and the formation of medieval art.

ARTH-303 MEDIEVAL & BYZANTINE ART & ARCHITECTURE (3 Credits)
The course examines the painting, sculpture, mosaics, illuminated manuscripts, architecture, and other material culture, from the advent of Christian art to the fall of the Byzantine Empire. Particular emphasis will be placed upon the development of regional styles in art, and upon the changing architecture of Christian churches.

ARTH-310 RENAISSANCE & BAROQUE ART (3 Credits)
This course is a study of the history of the development of major and minor arts from the Early Renaissance through the 18th century, exploring the work of individual artists, and observing the changing role of the artist in society. Systems of art patronage will be explored, and the aesthetics of the given period or style will be assessed.

ARTH-311 18TH AND 19TH CENTURY ART (3 Credits)
This course will examine particular art movements from the eighteenth and nineteenth centuries, including Rococo, Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, and Symbolism. Special attention will be paid to observing how, and understanding why, art, in its appearance, patronage, and reception, changed fundamentally in this period.

ARTH-321 AESTHETICS (3 Credits)
The course provides an introduction to the problems of aesthetics and the philosophy of art as treated by traditional and contemporary authors. Although topics vary, they typically include inquiries into; the concept of beauty, the nature and value of art, the aesthetic experience, and the evaluation and criticism of works of art.

ARTH-322 CONTEMPORARY ISSUES IN ART (3 Credits)
This course examines developments in art, beginning in the 20th century, and exploring the formation of Modern and Post-Modern art movements, including the avant-garde art and current art media.
**ARTH-323 WOMEN ARTISTS: THEN & NOW (3 Credits)**
This course examines the lives, careers, and achievements of women artists and the related cultural environment from the Middle Ages to contemporary times in Europe and America, the feminist movement beginning in the 1970’s and specifically feminist issues in art that are becoming widespread in the artistic culture. The creative powers of women as consumers, producers, critics, supporters, objects, and subjects of ‘art’ will be considered. To understand the work and the careers of women artists, one must be concerned with the art objects themselves, with the artists’ lives and experiences, and with the social and political conditions in which their art has been produced, consumed, and evaluated.

**ARTH-325 RELIGION AND ART (3 Credits)**
The arts have been an important channel of religious expression from the ancient cave dwellers to the present. This course examines the role played by the arts in the Christian tradition and the modern secular world. The first part of the course focuses on the varied uses of music, painting, sculpture, etc., in the life and liturgy of the church, including theological interpretations of the role of art in liturgy. The second part examines the spiritual power of contemporary secular forms of art.

**ARTH-330 ASIAN ART (3 Credits)**
The course surveys the visual arts and architecture of Asia, focusing on India, China, and Japan, from prehistory to the present. Special attention will be given to placing the arts within their historical and cultural context, with particular emphasis on the relation between art and religion such as Hinduism, Buddhism, Daoism, Confucianism and Shintoism. Painting, sculpture, architecture, ritual objects, ceramics and other visual forms will be examined in relation to specific historical stages and political contexts.

**ARTH-331 JAPANESE ART AND CULTURE (3 Credits)**
This course is a survey of the art and visual culture of Japan, focusing on the development of the pictorial, sculptural, and architectural traditions from prehistory to the present. Topics to be investigated will include Buddhist painting, sculpture, architecture, narrative hand-scrolls, and ink paintings. Also included are the arts related with the Zen sect; the diverse traditions of the Edo period, as well as woodblock prints, ukiyo-e, and the development of arts of the Meiji, Taisho and Showa periods.

**ARTH-332 NATIVE AMERICAN ART (3 Credits)**
This course is an introductory survey of the history of art and visual culture of the indigenous peoples of North America. This diversity of media, forms, and contexts from prehistory to the present day will be examined. Various art forms will be covered from sculpture, painting, pottery, beadwork, printmaking, glasswork and photography to performance and installation art.

**ARTH-333 INTRO TO ISLAMIC ART & ARCHITECTURE (3 Credits)**
This course is an introduction to the arts and architecture of the Islamic World from the rise of Islam in the seventh century to the twentieth century. We will examine the three principle vehicles for artistic expression in the Islamic world, namely, architecture, the arts of the book (calligraphy, illustration, illumination, and bookbinding), and the arts of the object (ceramics, metalwork, glass, woodwork, textiles and ivory).

**ARTH-334 RELIGION AND ART (3 Credits)**
The course is designed to include exposure to various aspects of museum work including collections, education/docentry and exhibitions. The internship requires a commitment of 150 hours per semester of enrollment. Attendance is mandatory. Interns are assigned work in aid of the educational staff of the QCA. The final project includes a portfolio of the intern’s work during the semester.

**ARTH-380 MUSEUM STUDIES: PROSEMINAR (3 Credits)**
The course is an introduction to the modern museum presented in three parts: (1) a general introduction to museums; (2) a practical survey of how museums function (regarding exhibitions; collections; management; museum-law; finance, etc.); and (3) a review of some important topics currently under debate in the museum world and beyond. The course is conceived as a weekly proseminar, with lecturers speaking on a rotating (weekly) basis about their areas of expertise, in accord with the subject matter and assigned readings established on the syllabus.

**ARTH-386 MUSEUM INTERNSHIP EDUCATIONAL (3 Credits)**
The ‘Museum Internship: Educational’ course is designed as a practicum that focuses on involving the student in museum education programs, including a variety of community outreach initiatives and docentry. The internship requires a commitment of 150 hours per semester of enrollment. Attendance is mandatory. Interns are assigned work in aid of the educational staff of the QCA. The final project includes a portfolio of the intern’s work during the semester.

**ARTH-388 MUSEUM INTERNSHIP: CURATORIAL (3 Credits)**
The ‘Museum Internship Curatorial’ course is designed to include exposure to various aspects of museum work including collections, education/docentry and exhibitions. The internship requires a commitment of 150 hours per semester of enrollment. Attendance is mandatory. Interns are assigned work in aid of the curatorial staff of the QCA. The final project includes a portfolio of the intern’s work during the semester.

**ARTH-399 SPECIAL TOPICS IN ART HISTORY (3 Credits)**
This course offers students the opportunity for advanced study in specialized areas or topics not currently covered in the art history curriculum.

**ARTH-399A SPECIAL TOPICS (3 Credits)**
This course offers students the opportunity for advanced study in specialized areas or topics not currently covered in the art history curriculum.
BNS-401 BEHAVIORAL NEUROSCIENCE SEMINAR (3 Credits)
A one-semester seminar required for graduation with a BS in Behavioral Neuroscience. It constitutes the University's requirement for a 'Comprehensive Examination' described in the Undergraduate catalog. This course explores recent issues in behavioral neuroscience to integrate the breadth of coursework for the Behavioral Neuroscience major. Specific topics vary by semester and by student interest. Some readings will be assigned by the instructor and some will be selected by students. Students will prepare readings for presentation and discussion in class. This will be accompanied by a small empirical research project (or approved alternative) culminating in a thesis written in accordance with the standards in a scientific field, for example, AMA Manual of Style or Publication Manual of the American Psychological Association. Grading is based on class participation, instructor assessment of students' presentations and literature, progress/performance measures, and tests on topics such as statistics, experimental design, and searching the scientific literature as needed for the subject-matter of the seminar. To hone communication skills, presentation at an on-campus events such as the Arts and Sciences Exposition may be required. 
Prerequisite: BIO 350 or PSYC 343. 3 credits. 
Prerequisite(s): BIO-350 OR PSYC-343
BIOLOGY (BIO)

BIO-ELEC BIOLOGY ELECTIVE (3 Credits)

BIO-101 FUNDAMENTALS OF BIOLOGY (4 Credits)
A human-oriented introductory course for non-science majors. Emphasis will be placed on the biological role of cell organization and function integration of systems, inheritance of individual traits and the genetic basis of evolution. The laboratory will introduce a variety of investigational techniques used to study related problems at the cellular and organismal levels.
Corequisite(s): Take BIOL-101

BIO-105 BIOLOGICAL SCIENCE I (4 Credits)
The first half of a two-semester foundation course in biological science for science majors. The course includes a detailed examination of the cellular and molecular basis of life as well as introductions to modern molecular genetics, evolutionary theory, and the history of life on earth. The laboratory component of the course involves a practical examination of the above topics with special emphasis on the scientific method as applied to biology and the writing of detailed laboratory reports.
Corequisite(s): Take BIOL-105

BIO-106 BIOLOGICAL SCIENCE II (4 Credits)
The second half of a two-semester foundation course in biological science for science majors. The major emphases of this semester are animal biology, plant biology, and ecology. The form and function of animals and plants are examined on the molecular, cellular, organismal, and ecological levels. The laboratory component of the course involves a practical examination of the above topics with special emphasis on the scientific method as applied to biology and the writing of detailed laboratory reports.
Corequisite(s): Take BIO-106

BIO-110 PLANTS AND HUMAN CULTURE (4 Credits)
From foods, to medicines, to fibers, to building materials, plants serve a vital role in our lives. This course emphasizes how basic plant structure and function interfaces with human existence. Special attention is given to multi-cultural approaches to the use of plant material. Laboratory exercises are designed to highlight practical applications of botany. This course cannot be used to fulfill elective credit requirements for the biology major. NOTE: This course cannot be used for Biology major credit.
Corequisite(s): BIOL-110

BIO-112 HUMAN ECOLOGY (3 Credits)
This course is designed for the liberal arts student who is interested in the relationship between humans and their natural environment. The integrative concept of humans as one species in a global ecosystem will be emphasized. Elementary ecological principles will be applied to such environmental problems as energy resources, land use, air and water pollution, and species extinction. We will seek solutions along multi-disciplinary lines, including economics, political science, and environmental ethics.
Corequisite(s): BIOL-112

BIO-135 INTRODUCTION TO BIOTECHNOLOGY (3 Credits)
This course communicates the importance of scientific practices and their multifaceted application in daily life. The lecture focuses on a current topic in biotechnology that relates to human life and that has caused social concerns. Students survey historical and current evidence to learn about the philosophy of science, the nature of the problem, the causes of concern, and the scientific findings. Students then use the knowledge and skills learned in the course to construct a scientific investigation.
Corequisite(s): BIOL-135

BIO-211 HUMAN ANATOMY & PHYSIOLOGY (4 Credits)
A study of the structure and function of the human body. Special emphasis is placed upon correlating structure with function in an examination of the human body from the cell and cellular metabolism level to the complex systems level. The laboratory is correlated with lectures and includes exercises of cell and tissue structure and function and exercises covering and integrating the microscopic and gross anatomy of the integument, body membranes, skeleton, articulations, and muscles with their corresponding body functions.
Prerequisite(s): Take BIO-101 or BIO-105

BIO-212 HUMAN ANATOMY & PHYSIOLOGY (4 Credits)
A continuation of Biology 211 in which attention is given to the structure and function of biological integrating and control mechanisms and mechanisms for processing, transporting, secreting, and eliminating. Emphasis is given to body maintenance response to external and internal stress. Laboratory exercises cover nervous, endocrine, digestive, circulatory, respiratory and urinary structures and processes in maintaining homeostasis.
Prerequisite(s): Take BIO-211
Restrictions: RGM.113

BIO-291 GENETICS (3 Credits)
A critical study of biological variation based on the molecular characteristics of genetic information. The course will cover the mechanisms of transmission genetics, the structural nature of nucleic acids, gene expression and its regulation and the role of mutational events in promoting evolutionary change.
Prerequisite(s): Take BIO-105 BIO-106

BIO-292 CELL BIOLOGY (3 Credits)
Cell Biology is a required course taken by Biology majors in their sophomore year. Having completed the introductory General Biology I and II freshmen sequences, students in BIO 292 adopt a microscopic lens and focus intensely on the features and functions of prokaryotic and eukaryotic organisms. Subjects covered in this course include cell evolution; cell reproduction; cell structure and compartmentalization; differentiation; protein synthesis, targeting, and transport; intra- and intercellular signaling mechanisms; and tools and technologies available for studying cells. These techniques include microscopy (bright field, confocal, and SEM), cell fractionation, radiolabeled nucleotides, and fluorescently tagged proteins.
Prerequisite(s): Take BIO-292

BIO-310 PLANT BIOLOGY (3 Credits)
An introduction to the anatomy, physiology, reproduction, ecology, and evolution of plants. This course is designed to heighten your appreciation for and increase your knowledge of the diversity and complexity of the plant kingdom. The greatest emphasis will be placed on the flowering plants and plants of local significance.
Prerequisite(s): Take BIO-105 and BIO-106

BIO-318 RESEARCH PARTICIPATION I (1 Credit)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty advisor. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion, a research report which follows scientific protocol must be submitted and approved.
Restrictions: RGM.104
BIO-319 RESEARCH PARTICIPATION II (1 Credit)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty advisor. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion, a research report which follows scientific protocol must be submitted and approved.
Prerequisite(s): Take BIO-105 BIO-106
Restrictions: RGM.104

BIO-321 GEN. MICROBIOLOGY (4 Credits)
This course focuses on bacterial diversity, structure, metabolism, growth and growth control, development of resistance, biofilms, genetics, genomic evolution, and population heterogeneity. Viral diversity, growth, and modes of replication are also investigated. Microbial interactions (microbiomes and host-pathogen interactions) are explored. The lab component reinforces lecture topics and employs both biochemical and genetic organism identification.
Prerequisite(s): Take BIO 291 or BIO 105/106 with instructor permission only

BIO-331 PHYSIOL & ANAT OF HUMAN I (4 Credits)
The first of a two-course sequence that studies the physiology and anatomy of the human body. The chemical and cellular bases for these sciences will be studied. The structure and correlated function of the integumentary, skeletal, muscular, digestive, endocrine and reproductive systems will be examined. The biological controls that result in the integration of these systems will be discussed. The laboratory will consist of the observation of organ system structures on the microscopic and gross anatomy levels. It will also use measurement techniques to quantitatively study physiological processes.
Prerequisite(s): TAKE BIO-105 BIO-106 CHEM-301 CHML-301

BIO-332 PHYSIOL & ANAT OF HUMAN II (4 Credits)
This course is the second in a two-course sequence concerning the physiology and anatomy of the human body, and covers the structures and functions of the nervous, circulatory, respiratory, and excretory systems, and also the regulation of organismal metabolism and energy balance.
Prerequisite(s): TAKE BIO-331

BIO-341 ECOLOGY (3 Credits)
An evaluation of the fundamental interrelations between organism(s) and environment. Field trips will be used to illustrate these phenomena.
Prerequisite(s): Take BIO-105 BIO-106

BIO-350 NEUROBIOLOGY (3 Credits)
An investigation of how electrochemical events in the brain enable humans and other animals to respond to environmental stimuli. We start with a detailed study of the properties of individual brain cells and the neurochemical and biochemical factors that modulate their activity. This is then applied to a discussion of (1) the processing of sensory input and motor output; (2) modulation of neural activity associated with moods, psychoactive substances, and states of consciousness; and (3) the mechanisms underlying learning, memory, development of the brain, and conscious experience. In the laboratory, we perform experiments using computer simulations of neuronal physiology and discuss recent developments in neurobiology in a case-study format.
Prerequisite(s): Take BIO-105 BIO-106

BIO-362 ANIMAL DEVELOPMENT (3 Credits)
This course provides a detailed study of molecular and cellular control of embryonic and post-embryonic development in several model systems (Drosophilida, C. elegans, Xenopus, Chicken, and Mouse). Topics include fertilization, gastrulation, organogenesis, pattern formation, cell differentiation, and molecular signaling mechanisms in development. Evolutionary aspects of developmental biology and current research in the field will be addressed throughout the course.
Prerequisite(s): Take BIO 291 or BIO 292, or BIO 105/106 with instructor permission only

BIO-371 BIOCHEMISTRY (4 Credits)
A study of the structures and functions of biomolecules, bioenergetics, major catabolic and anabolic pathways, and the fundamentals of molecular genetics. The laboratory familiarizes the student with biochemical phenomena and provides experience with important techniques used in biochemistry.
Prerequisite(s): TAKE BIO-291, BIO-292, OR BIO-105 AND BIO-106 with instructor permission only

BIO-390 EVOLUTION (3 Credits)
A detailed study of the fundamental principles of biological evolution, including natural selection; neutral theory; population-level evolutionary changes; molecular mechanisms of evolution; the role of morphological, behavioral, and molecular data in our understanding of evolutionary change; and methods of evolutionary research. The course will integrate classical conclusions with contemporary interpretations of evolutionary data, with emphasis placed on modern molecular-based methodologies.
Prerequisite(s): Take BIO-291

BIO-399 BIOLOGY SEMINAR (1 Credit)
The seminar is intended for junior biology majors. Students will read and discuss in a seminar format a series of research papers from the biological literature, organized around a central theme. The themes will vary from semester to semester. Each student will be responsible for analyzing and presenting at least one paper during the course, along with weekly participation in group discussions.
Prerequisite(s): Take BIO 292 or BIO 105/106 with instructor permission only

BIO-403 FRESHWATER ECOSYSTEMS (3 Credits)
A study of the aquatic ecosystems of the world with special emphasis paid to lakes and streams of Western New York. Topics include the biology of the major aquatic plants and animals, and the effects of pollution on the aquatic ecosystem. Biological samples and physical and chemical data are collected from area lakes and streams and will be analyzed as a part of the laboratory section of this course.
Prerequisite(s): Take BIO-105 BIO-106 CHEM-102

BIO-406 PLANT DEVELOPMENT & PHYSIOLOGY (3 Credits)
Growth, development and differentiation of plants are under the control of several interacting factors including chemical, physical and genetic ones. Various aspects of chemical, nutritional and environmental effects on plants will be emphasized. The laboratory will emphasize the experimental methods used to study the various phenomena.
Prerequisite(s): Take BIO 291, BIO 292, or BIO 105/106 with instructor permission only
BIO-418 RES. PARTICIPATION III (2 Credits)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty director. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion a report which follows scientific protocol must be submitted and accepted by two faculty members.
Prerequisite(s): TAKE BIO-105 BIO-106

BIO-419 RES. PARTICIPATION IV (2 Credits)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty director. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion a report which follows scientific protocol must be submitted and accepted by two faculty members.
Prerequisite(s): TAKE BIO-105 BIO-106

BIO-456 SENIOR FACULTY COLLOQUIUM (0 Credits)
The colloquium is a series of meetings providing a more informal student-faculty interaction and exchange of ideas on biologically related subjects not normally covered in courses or that may have social, moral or philosophical implications beyond those routinely covered in the curriculum. This two-semester sequence is required of all seniors and is designed to satisfy the Comprehensive Examination requirement for biology majors.
Prerequisite(s): TAKE BIO-399

BIO-457 SENIOR FACULTY COLLOQUIUM (0 Credits)
The colloquium is a series of meetings providing a more informal student-faculty interaction and exchange of ideas on biologically related subjects not normally covered in courses or that may have social, moral or philosophical implications beyond those routinely covered in the curriculum. This two-semester sequence is required of all seniors and is designed to satisfy the Comprehensive Examination requirement for biology majors.
Prerequisite(s): Take BIO-399

BIO-460 BIOCHEMISTRY SEMINAR (1 Credit)
This course will survey classic and current research papers in the areas of Cell and Molecular Biology. This course fulfills the Comprehensive Examination requirement for students in the Biochemistry Program.
Prerequisite(s): Take BIO-466

BIO-466 MOLECULAR BIOLOGY (4 Credits)
This course examines eukaryotic cells from the perspective of organelle ultrastructure and function, and the regulation of cell function through the differential expression of genes. Lecture topics include cell cycle, chromosome structure, mechanisms of gene regulation, the molecular biology of cancer and recombinant DNA technology. The lab component reinforces the lecture by emphasizing the experimental approaches to the study of cell structure and function.
Prerequisite(s): Take BIO-371

BIO-472 IMMUNOLOGY (3 Credits)
This course examines the molecular and cellular basis of humoral and cellular immunity. Antibody structure and function, the origin of antibody diversity and the nature of cellular immunity are examined. Other topics include the role of the major histocompatibility complex in immunity, regulation of the immune system, manifestations of defective regulation (autoimmunity and hypersensitivities) and immunity to infectious agents.
Prerequisite(s): Take BIO 292 or BIO 105/106 with instructor permission only

BIO-490 SPECIAL TOPICS IN BIOLOGY (3 Credits)
The title and nature of this course will vary from semester-to-semester. The course will serve as an upper-level elective that focuses on a specific topic of Biology that is of special interest to a member of the department. The special topic and instructor will be announced prior to registration for the semester in which it is offered.

BIO-490D SP TOP:MICROBIOLOGY FOR NURSING DISEASE (3 Credits)
The title and nature of this course will vary from semester-to-semester. The course will serve as an upper-level elective that focuses on a specific topic of Biology that is of special interest to a member of the department. The special topic and instructor will be announced prior to registration for the semester in which it is offered.

BIO-490E SP TOP:MICROBIOLOGY FOR NURSING LAB DISEASE (1 Credit)
The title and nature of this course will vary from semester-to-semester. The course will serve as an upper-level elective that focuses on a specific topic of Biology that is of special interest to a member of the department. The special topic and instructor will be announced prior to registration for the semester in which it is offered.

BIO-494 GENOMICS (3 Credits)
An introduction to the fields of genomics, functional genomics, and proteomics. The course begins with a description of methods used for sequencing and analyzing genomes. We then explore what is known about the structure and functional organization of the genomes of prokaryotic and eukaryotic organisms. The course concludes with a discussion of the various approaches being used to determine the functions of individual genes, and how gene expression is regulated. In the laboratory, students use online databases and computational tools to explore and analyze genome sequences.
Prerequisite(s): Take BIO-291
### BIOLOGY LAB (BIOL)

**Biol-101 Fundamentals of Biology Lab (0 Credits)**
Lab occurs once a week and goes along with BIO 101.

**Corequisite(s):** BIO-101

**Biol-105 Biological Sci. I Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 105.

**Corequisite(s):** Take BIO-105

**Biol-106 Biological Sci. II Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 106.

**Corequisite(s):** Take BIO-106

**Biol-110 Plants and Human Culture Lab (0 Credits)**

**Corequisite(s):** BIO-110

**Biol-135 Introduction to Biotechnology Lab (1 Credit)**
This laboratory course provides a user-friendly environment to introduce basic biotechnology techniques and practices to help students understand how to address biotechnology-related social concerns. Laboratory exercises include different laboratory practices in the field of biotechnology, ways to analyze and interpret experimental data, and the how to arrive at conclusions based on evidence.

**Corequisite(s):** BIO-135

**Biol-211 Human Anat & Physiol Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 211.

**Corequisite(s):** Take BIO-211

**Biol-212 Human Anat & Physiol Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 212.

**Corequisite(s):** Take BIO-212

**Restrictions:** RGM.113

**Biol-293 Genetics/Cell Bio Laboratory (1 Credit)**
This course uses laboratory experiments to provide students experiential learning opportunities for many of the topics covered in Genetics (BIO-291) and Cell Biology (BIO 292). These topics include transmission genetics, genetic and cellular pathways, recombinant DNA technology, chromosome structure, and cellular function.

**Corequisite(s):** Take BIO-291 or BIO-292.

**Biol-310 Plant Biology Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 310.

**Corequisite(s):** Take BIO-310

**Biol-321 Gen Microbiology Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 321.

**Corequisite(s):** Take BIO-321

**Biol-331 Physiol & Anat Human I Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 331.

**Corequisite(s):** Take BIO-331

**Biol-332 Physiol/Anat of Human Lab II (0 Credits)**
Lab occurs once a week and is taken with BIO 332.

**Biol-341 Ecology Lab (0 Credits)**
Lab occurs once per week and is taken with BIO 341.

**Corequisite(s):** Take BIO-341

**Biol-350 Neurobiology Lab (0 Credits)**
Lab occurs once per week and is taken with BIO 350.

**Biol-362 Dev Biology Lab (0 Credits)**

**Biol-371 Biochemistry Lab (0 Credits)**
The laboratory familiarizes the student with biochemical phenomena and provides experience with important techniques used in biochemistry.

**Corequisite(s):** Take BIO-371

**Biol-403 Freshwater Ecosystem Lab (0 Credits)**
Lab occurs once per week and it taken with BIO 403.

**Corequisite(s):** Take BIO-403

**Biol-406 Plant Development & Physiology Lab (0 Credits)**
Lab occurs once per week and is taken with BIO 406.

**Biol-466 Molecular Biology Lab (0 Credits)**
Lab occurs once per week and is taken with BIO 466.

**Biol-472 Immunology Lab (0 Credits)**
Lab occurs once per week and is taken with BIO 472.

**Biol-490 Special Topics in Biology Lab (1 Credit)**

**Biol-494 Genomics Lab (0 Credits)**

**Corequisite(s):** Bio-494
BUSINESS ELECTIVE (BUS)

BUS-101 ELEMENTS OF BUSINESS (3 Credits)
An overview of the elements of business which exposes students to the major disciplines within business such as accounting, finance, marketing, production/operations, and human resources. Topics treated include the role of business in society, economics, globalization, technology, law as it affects business, trends in management practices, and leadership. This class will provide a framework for all other coursework in the school of business.

Restrictions: RG.<19

BUS-199 SPECIAL TOPICS IN BUSINESS (3 Credits)
This is a well-defined course of study targeting lower division students in a discussion of business topics that go beyond regular course

BUS-299 SPECIAL TOPICS IN BUSINESS (3 Credits)
A well-defined course of study targeting lower division students that discusses business topics that go beyond the regular course offering.

BUS-299A SP TOP. INTERNATIONAL BUSINESS (3 Credits)
A well-defined course of study targeting lower division students that discusses business topics that go beyond the regular course offering.
BUSINESS INFORMATION SYSTEMS (BIS)

BIS-310 BUSINESS INFORMATION SYSTEMS (3 Credits)
A survey and overview of modern business computer information systems. The course is the foundation course for study in the field of information systems. Students will be exposed to the historic, current and projected role of information systems as they affect organizations and society. Topics will include systems theory, computing systems components, system analysis and design, information resource management/planning, telecommunications, security, database design and management, privacy, artificial intelligence, and new information technologies.

BIS-320 BUSINESS TELECOMMUNICATIONS (3 Credits)
An introduction to telecommunications and data communications. Topics include telecommunications terminology and concepts, telecommunications technology, local area networks, wide area networks, electronic mail and electronic data interchange. Emphasis is placed on aspects of telecomputing such as competitive advantage, security and privacy.
Prerequisite(s): Take BIS-310

BIS-335 SYSTEMS ANALYSIS & DESIGN (3 Credits)
This course is the BIS capstone course. The course provides an overview of systems theory. It addresses the techniques for systems analysis, testing and implementation. Special attention is given computer-based information systems used in the business environment.
Prerequisite(s): Take BIS-310

BIS-410 E-COMMERCE (3 Credits)
An overview of electronic commerce and examination of its role in the business environment. The student will study the impact of e-commerce on business models and the functional areas of the organization. Topics include electronic commerce terminology, Web-based marketing, electronic data interchange, regulations, risks and risk management. Security issues such as authentication, firewalls and payment mechanisms will also be explored.
Prerequisite(s): Take BIS-310

BIS-420 INFORMATION AND DECISION SUPPORT SYSTEM (3 Credits)
An overview of management information and decision support systems. The course covers computer resources, including hardware, software, data storage and management. User applications of a computer-based decision support system are covered. The course includes evaluation of hardware and software in the context of designing a business information system.
Prerequisite(s): Take BIS-310
Restrictions: RG.MGMT

BIS-498 INDEPENDENT STUDY (1-3 Credits)
Research in selected topic in business information systems under the supervision of a faculty member, designed to allow the student to probe specific interests that lie beyond the coverage normally found in regular course offerings.
BUSINESS LAW (BLX)

BLX-210 BUSINESS LAW I (3 Credits)
An introduction to the law, looking at the nature, type and sources of law, and the judicial system. Contracts, the elements necessary to form them, performance required, and breaches and their remedies. Sales, title and risk of loss, warranties, performance, and remedies. Negotiable instruments, form transfer, holders in due course, defenses. (Note: Accounting majors who plan to sit for the CPA exam are encouraged to take this course in the fall semester of their fourth year).

BLX-211 BUSINESS LAW II (3 Credits)
The forms of doing business, sole proprietorships, partnerships, limited liability companies, and corporations including the rights, powers, and duties of shareholders, directors and officers. The law of secured transactions, agency, fiduciary duty, corporate governance. Sarbanes-Oxley, surety ship, insurance, Securities Law, and professional responsibility.

BLX-310 SPORTS AND THE LAW (3 Credits)
Study of the main business areas of the law and the underlying legal principles as they relate to sports management and marketing environment. Special emphasis on contract law, intellectual property, anti-trust laws and real property ownership and liability.

Restrictions: RG.56+

BLX-401 LEGAL ENVIRONMENT OF BUS. (3 Credits)
An investigation of the relationship between federal legislation and business. Topics discussed include antitrust legislation, unfair competition and practices, tying agreements and exclusive dealings, and price and service discrimination.

BLX-402 LEGAL ENVIRONMT OF INTNL BUS (3 Credits)
Understanding the different parameters in international business from the domestic rules is the starting point for a comparative analysis of legal systems. How and why we engage in international business dealings and an introduction to the regionalization of the world.

BLX-499 INDEPENDENT STUDY (3 Credits)
Research in selected legal topics. This offering is designed to allow the student to probe areas of specific interest which lie beyond the coverage in regular course offerings.
CHEMISTRY (CHEM)

CHEM-100 INTRODUCTION TO CHEM. (3 Credits)
An introduction to the discipline of chemistry and an inventory of the basic materials of chemistry that a student must master prior to Chemistry 101. The course presents a modern view of chemistry suitable for pupils with a wide range of skills and abilities.

CHEM-101 GENERAL CHEMISTRY I (3 Credits)
Three hours of lecture per week. This course covers the atomic theory of matter, stoichiometry, gases, thermochemistry, atomic and molecular structures, condensated phases and solutions.
Prerequisite(s): Take CHML-101

CHEM-102 GENERAL CHEMISTRY II (3 Credits)
Three hours of lecture per week. A continuation of Chemistry 101. Topics covered include chemical kinetics, acid-base chemistry, gas-phase and solution equilibria, oxidation-reduction reactions, electrochemistry, and some descriptive chemistry.
Prerequisite(s): Take CHEM-101

CHEM-201 ANALYTICAL CHEMISTRY (3 Credits)
Three hours of lecture a week. A study of the theory and techniques of quantitative analysis, including gravimetric, volumetric, potentiometric, spectrophotometric and chromatographic methods.
Prerequisite(s): Take CHEM-102

CHEM-301 ORGANIC CHEMISTRY I (3 Credits)
Three hours of lecture a week. This class integrates modern and classical theories of organic chemistry. Topics include structural formulas, equilibrium and rate concepts, stereochemistry, and reaction mechanisms of alkanes, alkenes, haloalkanes, alcohols, and phenols.
Prerequisite(s): Take CHEM-102

CHEM-302 ORGANIC CHEMISTRY II (3 Credits)
Three hours of lecture a week. A continuation of Chemistry 301. The structure, properties and reaction mechanisms of aldehydes and ketones, carboxylic acids and their derivatives, amines, aromatic compounds and some descriptive chemistry is included.
Prerequisite(s): Take CHEM-301

CHEM-401 PHYSICAL CHEMISTRY I (3 Credits)
Three hours of lecture a week. A systematic application of physical and mathematical principles to chemical systems. Topics addressed include classical thermodynamics, equilibrium systems, and chemical kinetics.
Prerequisite(s): Take CHEM-102 PHYS-104 MATH-152

CHEM-402 PHYSICAL CHEMISTRY II (3 Credits)
Three hours of lecture a week. Topics addressed include quantum theory, atomic and molecular structure, chemical bonding and spectra, and an introduction to statistical mechanics and chemical dynamics.
Prerequisite(s): Take CHEM-401

CHEM-427 SEMINAR IN CHEMISTRY (0 Credits)
One hour a week. A lecture-discussion program devoted to current advances in chemistry and their relations to fundamental chemical principles.
Restrictions: RG.86+

CHEM-431 INSTRUMENTAL ANALYSIS (3 Credits)
Three hours of lecture a week. A study of the theory and techniques of instrumental analysis, such as, photometry, polarography, spectroscopy, chromatography, mass spectrometry, NMR, and other advanced instrumental techniques.
Prerequisite(s): CHEM-302 and CHML-302

CHEM-470 MECHANISMS IN BIOLOGICAL SYSTM (3 Credits)
Three hours of lecture a week. The well-established mechanistic principles of organic chemistry will be applied to chemical reactions occurring in vivo. Topics include the mechanisms for the metabolism of carbohydrates, fats, and amino acids.
Prerequisite(s): Take CHEM-302

CHEM-480 SP TOPICS IN CHEMISTRY (2-3 Credits)
An upper level/seminar on a specific topic of special interest to a member of the department's faculty. The specific topic and instructor will be announced prior to registration for the semester in which it is offered.

CHEM-480A SP TOP: SPECTROSCOPY OF ORGANIC STRUCTURES & UNKNOWNS (3 Credits)
An upper level/seminar on a specific topic of special interest to a member of the department's faculty. The specific topic and instructor will be announced prior to registration for the semester in which it is offered.

CHEM-497 WORK EXPERIENCE (3-6 Credits)
This course is designed to develop off-campus opportunities for students interested in broadening their undergraduate experience to include periods of paid employment, community service, travel or even independent study. All of the course requirements are handled by the student, the advisor, and the department chair.

CHEM-498 UNDERGRADUATE RESEARCH (1-3 Credits)
Original research is performed under the supervision of a faculty member; both library and laboratory work are expected. Prerequisite: at least sophomore standing and consent of the faculty member involved.
Restrictions: RG.24+

CHEM-499 UNDERGRADUATE RESEARCH (1-3 Credits)
A continuation of Chemistry 498. A comprehensive written research report is required.
Restrictions: RG.24+
CHEMISTRY LAB (CHML)

CHML-101 GEN CHEM I LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 101.
Corequisite(s): Take CHEM-101

CHML-102 GEN CHEM II LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 102.
Prerequisite(s): Take CHML-101

CHML-201 ANALYTICAL CHEM. LAB (1 Credit)
Four hours of laboratory a week. The analytical determinations will encompass the main techniques considered in Chemistry 201.
Prerequisite(s): Take CHML-102

CHML-301 ORGANIC CHEM I LAB (1 Credit)
Four hours of laboratory a week. This laboratory course integrates the practical aspects of organic chemistry with theory. Experiments are designed to teach basic techniques of separation, purification and analysis, and to synthesize various functional groups discussed in Chemistry 301.
Corequisite(s): Take CHEM-301

CHML-302 ORGANIC CHEM II LAB (1 Credit)
Four hours of laboratory a week. A continuation of Chemistry 301L. Synthetic experiments correlated closely with topics in Chemistry 302.
Prerequisite(s): Take CHML-301

CHML-401 PHYSICAL CHEM I LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 401.
Corequisite(s): Take CHEM-401

CHML-402 PHYSICAL CHEM II LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 402.
Prerequisite(s): Take CHML-401

CHML-431 INSTRUMENTAL ANALYSIS LAB (1 Credit)
Four hours of laboratory a week. Introduction to analytical techniques associated with utilizing modern instruments, such as a polarograph, UV, NMR, and IR instruments, and a gas chromatograph.
CHILDOOD STUDIES (CHST)

CHST-493 INTERNSHIP CHILDHOOD STUDIES (3 Credits)
The internship is the culminating experience in the professional preparation for students majoring in Childhood Education. The internship is a supervised learning experience in an approved setting. The internship will involve students in working with professionals in the field. The internship is designed by the students in collaboration with his/her advisor, the department chair and the Director of Field Service. Possible internship sites include museums, hospitals, camps, social service agencies, children’s homes, crisis intervention services, schools (in non-classroom teaching settings) and community correctional programs. The student will design and implement a project to complete during the internship in collaboration with the site and university supervisor. This internship is not a student teaching experience and will not fulfill the requirements for student teaching. It does not lead to teacher certification at any level.

Corequisite(s): Take SPED-460

Restrictions: RG.CHST
CLASSICAL CULTURE (CULT)

CULT-101 GREEK CIVILIZATION (3 Credits)
A general survey of the political, intellectual and cultural features of Greek History from its prehistoric beginnings in the fourth millennium B.C. to the founding of Constantinople in 330 A.D. Required of all Classical Studies majors.

CULT-102 ROMAN CIVILIZATION (3 Credits)
A survey of the social, civil and cultural development of Rome from the beginning to 476 A.D. Required of all Classical Studies majors.

CULT-103 GREEK AND ROMAN MYTHOLOGY (3 Credits)
The gods and goddesses of Greco-Roman paganism, both in their relationships amongst themselves and with the world of humans, are studied through (at least) two major ancient literary works and one near-contemporary novel. Required of all Classical Studies majors.

CULT-104 ARCHAEOLOGY OF ANCIENT GREECE & ITALY (3 Credits)
This course explores the exciting, beautiful, and often unknown civilizations of ancient Greece and Italy through a material culture perspective. Students are introduced to the architecture, ceramics, painting, sculpture, and urban planning of the Minoan, Mycenaean, Greek, Etruscan, and Roman civilizations.

CULT-105 THE HEROIC GREEKS (3 Credits)
A study of the various types of hero and of anti-hero as they appear in Greek literature.

CULT-106 THE WOMEN OF GREECE (3 Credits)
A survey of the status, role and figure of women in Greek history.

CULT-107 GREEK AND ROMAN DRAMA (3 Credits)
A study of the comedies and the tragedies of the Greeks and Romans.

CULT-201 LATIN & GREEK ETYMOLOGY (3 Credits)
A study of the derivations of English words from Latin and Greek.

CULT-202 LATIN AND GREEK ETYMOLOGY (3 Credits)
A study of the derivations of English words from Latin and Greek.

CULT-205 GRK LITERATURE IN TRANSLATION (3 Credits)
Selections from the greatest works of the Greek writers are read in translation. Works may be studied according to literary genres or eras.

CULT-206 LATIN LIT. IN TRANSLATION (3 Credits)
Selections from the greatest works of the Latin writers are read in translation. Works may be studied according to literary genres or eras.
COMMUNICATIONS (COM)

COM-102 EFFECTIVE SPEAKING & PRESENTATIONS (3 Credits)
Students will learn strategies for preparing and delivering effective presentations and speeches. Students will demonstrate increased confidence in speaking publicly and how to develop informative and engaging presentations, using a variety of approaches and media.
COMP SCIENCE LAB (CSL)

CSL-101 BEAUTY & JOY OF COMPUTING LAB (0 Credits)
Corequisite(s): Take CS-101(1508)

CSL-127 COMPUTER APPL TO SCI LAB (0 Credits)

CSL-128 GEOG. INFO. SYSTEMS LAB (0 Credits)
Labs will familiarize students with the management and analysis of spatial data. Labs will familiarize students with the management and analysis of spatial data using ArcView GIS software. A brief introduction to outdoor use of global positioning systems will occur at the end of the semester. Class and labs will emphasize group projects of practical and local application.

CSL-131 COMPUTER SCIENCE I LAB (0 Credits)
Lab occurs once per week for two hours. Lab is taken with CS 131.
Corequisite(s): Take CS-131

CSL-132 COMPUTER SCIENCE II LAB (0 Credits)
One two-hour laboratory per week. Lab is taken with CS 132.
Corequisite(s): Take CS-132

CSL-231 COMPUTER ORGANIZATION LAB (0 Credits)
Corequisite(s): Take CS-231

CSL-234 PROGRAMMING METHODOLOGIES LAB (0 Credits)
Corequisite(s): CS-234

CSL-243 DATABASE MGMT SYSTEMS LAB (0 Credits)
Corequisite(s): Take CS-243

CSL-254 COMPUTER NETWORKS LAB (0 Credits)
One two-hour laboratory per week. The laboratory component provides experience in network programming using sockets. Lab is taken with CS 254.
Corequisite(s): Take CS-254

CSL-256 COMP. GRAPHICS LAB (0 Credits)
Prerequisite(s): Take CS-132

CSL-257 USER INTERFACE DESIGN LAB (0 Credits)
Students will study the theory of user interface design in class and will put that theory into practice through laboratory exercises and team projects. Lab is taken with CS 257.

CSL-341 ARTIFICIAL INTELLIGENCE LAB (0 Credits)
Prerequisite(s): Take CS-132

CSL-342 ROBOTICS/COMPUTER VISION LAB (0 Credits)
Corequisite(s): Take CS-342

CSL-346 OPERATING SYSTEMS LAB (0 Credits)

CSL-380 SPECIAL TOPICS LAB (0 Credits)
Prerequisite(s): Take CS-333

CSL-490 SOFTWARE ENGINEERING LAB (0 Credits)
Corequisite(s): Take CS-490
COMP SECURITY & INFO
ASSURANCE (CSIA)

CSIA-101 INTRODUCTION TO INFORMATION SECURITY (3 Credits)
This course is an elective to introduce students in any major to the
Information Security field. Students will be introduced to main domains
of Information Security and Information Assurance as represented in the
COMPTIA Certification exam Security Plus. Upon successful completion
of this course as documented through writing, objective testing, case
studies, laboratory practice, and/or classroom discussion, the student
will be able to: Define information security and explain why it is important
Identify types of attackers, analyze vulnerabilities, attacks and suggest
appropriate defenses. Describe various software security applications
and vulnerability scanning tools. Explain the different types of logical
and physical access control. Understand and explain authentication,
authorization and accounting as it relates to computer security. Define and
explain risk, risk management, and penetration testing.
CS-101 Beauty & Joy of Computer Science (3 Credits)
CS 101 BEAUTY AND JOY OF COMPUTER SCIENCE This course presents the history, social implications, great principles, and future of computing. It examines the computing applications that have changed the world and how computing empowers discovery and progress in other fields. The relevance of computing to the student and society will be emphasized. Students will learn the joy of programming a computer using a friendly, graphical language, and will complete a substantial team programming project related to their interests. The course consists of two lecture hours and one two-hour laboratory per week.
Corequisite(s): Take CSL-101

CS-128 INTRO GEOGRAPHIC INFO SY S CS (3 Credits)
An introduction to the theory and practice of GIS, with applications to environmental planning and resource management. Classes will address basic cartography, creation and interpretation of computerized maps, use of aerial photographs and remote sensing data, and the analysis and modeling of spatial data. Labs will familiarize students with the management and analysis of spatial data, using Microsoft Access and Excel and ArcView GIS software. A brief introduction to outdoor use of global positioning systems will occur at the end of the semester. Class and labs will emphasize group projects of practical and local application. Equivalent to ES 228.

CS-131 COMPUTER SCIENCE I (4 Credits)
This is the first course in the computer science major sequence. The course introduces the object-oriented approach to software design using the programming language Java. Topics covered are software design, implementation and testing, basic computer organization and source code translation. No previous programming experience is presupposed. The course consists of three lecture hours and one two-hour laboratory per week.
Corequisite(s): Take CSL-131

CS-132 COMPUTER SCIENCE II (4 Credits)
This is the second course in the computer science major sequence. The course utilizes the object-oriented design approach to building applications, which emphasizes the creation and utilization of reusable software tools. Students are introduced to data structures that are commonly encountered in building software applications and to the analysis of the efficiency of algorithms used to solve problems. The programming language Java is used to implement software designs. The course consists of three lecture hours and one two-hour laboratory per week.
Prerequisite(s): Take CS-131

CS-145 Windows Application Dev (3 Credits)
Introduction to event-driven, object-oriented programming using Microsoft Visual Basic or C#. Topics include effective user interface design, creating forms and reports, data types and data conversions, Active-X controls, execution control structures and file management.

CS-192 IND STUDY IN COMP SCIENCE (1-3 Credits)

CS-231 COMPUTER ORGANIZATION (4 Credits)
A study of the organization of computer systems. Topics include the representation of information, conventional machine and assembly language, circuit design, and organization of the major components of a computer, e.g. the CPU, memory, I/O devices, etc. Students will become familiar with assembly language programming and will use simulators to learn about hardware components. The course includes three lecture hours and one two-hour laboratory per week.
Prerequisite(s): Take CS-132

CS-234 PROGRAMMING METHODOLOGIES (4 Credits)
A study of several modern approaches to practical software development at both a high and low level of abstraction. Students will become familiar with the Client-Server and Event-Driven models of software design, with elementary design patterns such as Adapter and Model-View-Controller that support these models and with techniques such as test-driven design and refactoring that aid in the implementation of these ideas. The course is primarily project-based and includes three lecture hours and one two-hour laboratory session each week.
Prerequisite(s): Take CS-132

CS-243 DATABASE MGMT SYSTEMS (4 Credits)
An introduction to database management systems, including database design and application development. Different database models are introduced, with emphasis on the relational model. The theoretical principles underlying the design of a database and the physical storage of data and its integrity are covered. The laboratory component is used to design and implement a real-world database application that illustrates theory.
Prerequisite(s): Take CS-132

CS-244 DATA-DRIVEN WEB APPL DEV (3 Credits)
Introduction to the design and implementation of a database-driven application using a tool such as Microsoft ASP.Net. Students will design and implement an e-commerce application based upon a SQL server database. The course presupposes familiarity with relational database design and application development. Topics include Visual Studio.Net tools for managing data sources, data controls for populating Web pages, data presentation tools, configuring, deploying and trouble-shooting an ASP.Net application. Students will build a data-driven Web site.
Prerequisite(s): Take CS-132

CS-254 COMPUTER NETWORKS (4 Credits)
A study of computer networks based on the OSI model of a layered network architecture. The TCP/IP protocol suite is used to illustrate network protocols. The course includes an overview of local area networks, routing algorithms, and network applications. The course consists of three lecture hours and one two-hour laboratory per week. The laboratory component provides experience in network programming using sockets.
Prerequisite(s): Take CS-132

CS-255 WEB SERVER MANAGEMENT (3 Credits)
Introduction to the design, deployment and maintenance of a web server. Students will learn how to set up, deploy, secure and manage a web server using both IIS and Apache. Students will act both as server managers and web server hackers. Topics include network protocols, server setup, server performance, server security, and server maintenance.
Prerequisite(s): Take CS-254
CS-256 COMPUTER GRAPHICS (4 Credits)
A survey of two- and three-dimensional computer graphics including graphics standards, graphics systems at both the hardware and software levels, and the implementation of graphics techniques for rendering an image. The course focuses on the architecture of computer graphics systems, and students will be expected to program within such systems as part of the course work. The course includes three lecture hours and one two-hour laboratory period per week.
Prerequisite(s): Take CS-132 AND MATH-208 or MATH-151

CS-257 USER INTERFACE DESIGN (4 Credits)
This course will expose the student to a wide variety of material related to the design of user interfaces. Command-time, batch, and event-driven models of user interaction will be discussed as well as presentation styles, models of communication and cognitive processes, and the social implications of user interface design. Students will study the theory of user interface design in class and will put that theory into practice through laboratory exercises and team projects.
Prerequisite(s): Take CS-132

CS-331 PRIN. OF PROGRAMMING LANGUAGES (3 Credits)
A study of the fundamental principles around which programming languages are designed. Topics include language specifications, syntax and semantics, data types, control statements, support for abstraction, and program organization. Students will be exposed to issues involving compilation, interpretation, lexical analysis, and parsing as well as to languages in each of the major paradigms. The course includes three lecture hours per week.
Prerequisite(s): Take CS-333

CS-332 THEORY OF COMPUTATION (3 Credits)
A mathematical treatment of formal language theory and how it relates to computer science. Topics include automata, grammars, Turing machines, computability, and computational complexity. The course includes three lecture hours per week.
Prerequisite(s): Take CS-333

CS-333 ALGORITHMS & DATA STRUCTURE (3 Credits)
A study of abstract data types including trees, hash tables, and graphs. The course will study each of these in the context of the analysis of algorithms and algorithm design techniques in general. Intractable and unsolvable problems and their implications will also be covered.
Prerequisite(s): Take CS-132 MATH-208

CS-341 ARTIFICIAL INTELLIGENCE (4 Credits)
A laboratory course that implements some of the artificial intelligence systems discussed in CS 141. The course is designed for computer science majors wishing to take CS 141 for credit towards the major. It must be taken at the same time as CS 141. The prerequisite is enforced strictly.
Prerequisite(s): Take CS-132

CS-342 ROBOTICS & COMPUTER VISION (3 Credits)
The course introduces the design of autonomous robots that are capable of carrying out tasks that involve intelligence. Higher-level intelligent behavior is built upon low-level algorithms that govern robot-environment interaction. Tasks examined are navigation, planning, object manipulation, and object recognition using 2-dimensional vision. Behavior control algorithms are developed for and tested on Khepera robots, miniature robots designed for this purpose.
Prerequisite(s): Take CS-333

CS-346 OPERATING SYSTEMS (4 Credits)
A study of modern multiprogrammed operating systems including system structure, concurrency, process scheduling and control, memory management, file systems, and system performance. The course consists of three lecture hours and on two-hour laboratory per week. The laboratory component provides experience in concurrent programming using Java threads and in system level programming using C in a UNIX environment.
Prerequisite(s): Take CS-231

CS-346H OPERATING SYSTEMS (HONORS) (4 Credits)
Prerequisite(s): Take CS-231
Restrictions: RG.HON

CS-354 INTRO INTERNET SYS. SECURITY (4 Credits)
Introduction to network security auditing. Students will learn how to perform the different phases of an audit, including discovery and penetration, as well as how to prevent hackers from controlling your network. This course introduces various tools to help students in the auditing process. Students will be exposed to international standards, along with time-tested methods for auditing a network efficiently, and they will be able to use specific, practical tools for countering network attacks. Finally, they will be able to analyze all findings and make informed recommendations for establishing the best security possible in a given scenario.
Prerequisite(s): Take CS-254

CS-380 SPECIAL TOPICS IN COMP.SCIENCE (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132

CS-380A SP.TOPICS IN COMP.SCIENCE (3 Credits)
Prerequisite(s): Take CS-333

CS-380B SP TOP CRYPTOLOGY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Corequisite(s): Take CS-132 & MATH-208

CS-380C SP TOP CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132 & CSIA-101

CS-380D SP TOP MACHINE LEARNING (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132

CS-380E SP TOP WIRELESS SENSOR NETWORKS (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132

CS-442 AL AND ROBOTICS (3 Credits)
Faculty directed independent study in artificial intelligence or robotics.

CS-446 OP SYS (3 Credits)
Faculty directed independent study in operating systems.
Prerequisite(s): Take CS-346

CS-454 Networks (1-3 Credits)
Faculty directed independent study in computer networks.

CS-456 COMPUTER GRAPHICS PROJECTS (3 Credits)
Faculty directed independent study in computer graphics.
CS-457 ADVANCED USER INTERFACE PROJECTS (3 Credits)
Faculty directed independent study in user interface design.
Prerequisite(s): Take CS-257

CS-480A SPTOP:FORMAL LANG. THEORY (3 Credits)

CS-490 SOFTWARE ENGINEERING (3 Credits)
The course provides an overview of software requirements analysis, the software design process, verification and validation, software maintenance, and documentation. A major component of the course is a project that provides experience in the analysis and design of a software product using an object-oriented methodology.
Corequisite(s): Take CSL-490
Restrictions: RGM.129

CS-491 INTERNSHIP IN COMPUTER SCI. (1-3 Credits)
This program provides students with on-the-job training and experience which is not obtainable in classroom situations. The student is expected to secure a full-time position which involves significant work in an area of computer science. Each internship is individually arranged, subject to the approval of the computer science faculty.
Prerequisite(s): Take CS-231 AND CS-234

CS-492 IND. STUDY IN COMP. SCIENCE (1-3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492A Ind. Study in Comp Science (1-3 Credits)
Prerequisite(s): CS-232

CS-492C IND ST: RESEARCH (1-3 Credits)
Prerequisite(s): CS-232

CS-492D IND. STUDY SECURITY OPERATIONS CENTER (1-3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492E IND ST: RESEARCH & IMPLEMENTATION OF A SOC (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492F DATABASE MANAGEMENT (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492G IND ST: INTRO INTERNET SYS SECURITY (4 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492J IND ST: NETWORK SECURITY (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492K IND ST: HONEYPOTS & HONEYNETS (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-495 Technical Consulting in the Community (3 Credits)
CS 495 TECHNICAL CONSULTING IN THE COMMUNITY This course provides students with the opportunity to experience a technical consulting role with a local non-profit community organization. The student will apply professional and communication skills as he/she works with a community partner as a technical consultant. The student will spend at least three hours a week on-site at the organization and will write and present consulting reports based on his/her experience.
Prerequisite(s): Take CS-132
Restrictions: RGC.105
CRIMINOLOGY (CRM)

CRM-101 INTRODUCTION TO CRIMINOLOGY (3 Credits)
A study of the nature and cause of crime. 3 credits. Fall.

CRM-209 CRIMINOLOGICAL THEORY (3 Credits)
A survey of the outstanding criminological thinkers from Beccaria to current theorists, along with the development of the several schools of thought and their influence upon present-day criminological theory. Prerequisites: CRM-101. 3 credits. Spring.

Prerequisite(s): TAKE CRM-101

CRM-420 SP.TOP. IN CRIMINOLOGY (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

CRM-420A SPECIAL TOPIC: SERIAL KILLERS (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

CRM-420B SP TOP: COMMUNITY POLICING (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

CRM-420C SPECIAL TOPIC: CRIM TRENDS ACROSS NON- WESTERN CULTURES (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

CRM-420D SP TOP:DEVIANCE & SOCIAL CONTROL (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

CRM-420E SP TOP: VICTIMOLOGY (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
CYBERSECURITY (CYB)

CYB-101 INTRODUCTION TO INFORMATION SECURITY (3 Credits)
This course is an elective to introduce students in any major to the Information Security field. Students will be introduced to main domains of Information Security and Information Assurance as represented in the COMPTIA Certification exam Security+ . Upon successful completion of this course as documented through writing, objective testing, case studies, laboratory practice, and/or classroom discussion, the student will be able to: Define information security and explain why it is important. Identify types of attackers, analyze vulnerabilities, attacks and suggest appropriate defenses. Describe various software security applications and vulnerability scanning tools. Explain the different types of logical and physical access control. Understand and explain authentication, authorization and accounting as it relates to computer security. Define and explain risk, risk management, and penetration testing.

CYB-102 ETHICAL & PROFESSIONAL SKILLS IN CYBERSECURITY (3 Credits)
This course introduces students to project management and risk assessment in Cybersecurity as well as the ethical questions surrounding these skills. It provides a comprehensive understanding of the principles and processes of risk management and how to apply these to a variety of scenarios. The course also prepares students for two professional licenses in Risk Assessment and Project Management.

CYB-180 SPECIAL TOPICS IN CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CS-132

CYB-333 INFORMATION SECURITY (3 Credits)
This course is designed to introduce students to the development of information security policies and planning. Information systems, and the tools and techniques needed to establish, monitor and maintain information security will be examined.
Prerequisite(s): TAKE CS-131 CYB-101

CYB-355 COMPUTER CRIME (3 Credits)
The media reports terrorist attacks on computer centers, electronic fraud on international funds transfer networks, viruses and worms in software and email, corporate espionage on business networks, and crackers breaking into systems on the Internet. Computer criminals are becoming ever more technically sophisticated, and it’s an increasing challenge to keep up with their methods. This course will focus on computer crimes, what they are, how to prevent them, and how to detect, investigate and prosecute them if they do occur. Computer crime laws will also be covered. Other topics will include evidence collection during a computer crime investigation as well as the preparation and execution of a search warrant.
Prerequisite(s): TAKE CS-254

CYB-360 COMPUTER FORENSICS (3 Credits)
A police officer makes a gruesome discovery, a body is found. Located near the corpse is a cellular telephone, a digital camera and a computer. The officer is unsure on how to proceed. On the other side of town, a search warrant of a business is being conducted. A server and the computers networked to it are believed to contain evidence of a crime. The detectives are trying to decide on what to seize and how to take it. More and more crimes involve digital evidence that requires seizing, imaging and analysis. The evidence needs to be reviewed for possible investigative leads and for possible presentation in court. This course will focus on how to properly seize, image and examine digital evidence. It will include creating and verifying the duplicate image of digital evidence, analyzing the data to locate evidence, and recovering evidence.
Prerequisite(s): Take CYB-355

CYB-365 INVESTIGATIVE SOFTWARE TOOLS (3 Credits)
Intelligence led policing and intelligence based investigative strategies are coming to the forefront of law enforcement. Private industry is also becoming increasingly aware of the strategic intelligence model as it applies to corporate planning, competition practices and maintaining corporate integrity. This course is designed to introduce students to several key software tools that are widely used and considered essential for intelligence research and criminal investigations. These software tools will include, but not be limited to, Analyst Notebook, iBase, and Idea. Students will be given a thorough understanding of how to apply these tools in the course of the intelligence process and/or during the course of a criminal investigation. The course will culminate with students preparing a project using all the software tools introduced during the course.

CYB-380 SPECIAL TOPICS IN CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CS-132

CYB-380A SP TOP IN CYBERSECURITY: ADVANCED CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CS-380C

CYB-380B SP TOP IN CYBERSECURITY: CYBERSECURITY INVESTIGATION (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CYB-101

CYB-380C SPECIAL TOPICS: LAW & POLICIES INVESTIGATION (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CYB-101

CYB-380D SP TOP: THREAT HUNTING FOR MS WINDOWS (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CYB-101
CYB-410 INTRO TO CRYPTOGRAPHY (3 Credits)
In this course, the key terms, concepts and principles of cryptography are defined and explained. Application of cryptographic techniques to ensure confidentiality, integrity, authentication, access control, and non-repudiation issues will also be covered. Other topics will include the history of classical cryptographic and cryptanalytic techniques, modern symmetric and asymmetric algorithms, Federal Information Processing Standard (FIPS) algorithms, random and pseudo-random number generators and cryptographic hash functions. Issues involving cryptographic application at various OSI layers in networking communications will also be discussed.

Prerequisite(s): MATH-207 CS-254


ECED-240 FOUND EARLY CHILDHOOD EDUC (3 Credits)
This is the introductory course in early childhood education examining the history, theory, trends and contemporary issues in early childhood education. The role of families, schools, agencies and the community in the care and education of children birth to age 8 will be examined. The course examines roles, ethical issues and standards for early childhood educators. Fifteen (15) hours of field experience required.

ECED-420 CURR/ASSMT EARLY CHILDHD EDUC (3 Credits)
This course is an examination and evaluation of developmentally appropriate early childhood curriculum. Emphases include play, language and integrated activities. Students will construct curriculum plans and design appropriate assessment procedures for children birth through age 8. Communication and collaboration with families and the community are emphasized. Thirty-five (35) hours of field experience required.
**ECONOMICS (ECO)**

**ECO-ELEC ECONOMICS ELECTIVE (3 Credits)**

**ECO-101 MICROECONOMIC PRINCIPLES (3 Credits)**
An introductory investigation of economics as it relates to individual economic units (e.g., the firm). Emphasis is placed on price theory within the context of various market structures.

**ECO-101H MICROECONOMIC PRINCIP.(HONORS) (3 Credits)**
Restrictions: RG.HON

**ECO-102 MACROECONOMIC PRINCIPLES (3 Credits)**
An introductory investigation of economics as it relates to aggregate economies (e.g. a nation). Emphasis is placed on the determination of national income and the composition and pricing of national output.

**ECO-308 ENVIRONMENTAL ECONOMICS (3 Credits)**
Studies the efficient use of society’s scarce environmental resources. Environmental economics is a course in applied welfare economics with an emphasis on market failures (externalities and common access resources), and solutions to market failures, along with the economic valuation of environmental amenities such as clean air and water.

**Prerequisite(s):** Take ECO-101

**ECO-313 INTERMEDIATE MICROECONOMICS (3 Credits)**
This course develops the economic theory of the firm and consumer choice. The former includes analyses of market structures, output and input pricing decisions, cost minimization, and profit maximization. The latter characterizes consumer’s optimal decisions given their incomes, preferences and the relative prices of various goods. The course develops tools for analyzing how these optimal choices change when relative prices and consumer incomes change. Also, the course presents several measures on consumer welfare. Other topics may include general equilibrium analysis, market failure, public economics, public choice, decision making under uncertainty, and game theory applications. The course relies on calculus when presenting and developing the various economic models.

**Prerequisite(s):** Take ECO-101 and MATH-122 or MATH-151

**ECO-314 INTERMED. MACROECONOMICS (3 Credits)**
An advanced look at Macroeconomics as it relates to households, firms, the government, and the Federal Reserve. Analytical, graphical and mathematical solutions to economic problems will be explored. Topics include GDP, unemployment, inflation, money, growth theory, and international trade and finance.

**Prerequisite(s):** ECO 101 and 102 and (MATH 122 or MATH 151)

**ECO-498 Independent Study and Research (1-3 Credits)**
Research in selected topics in economics under the supervision of a faculty member, designed to allow the student to probe specific interests that lie beyond the coverage normally found in regular course offerings.

**ECO-498C SPECIAL TOPICS:ECONOMICS OF HEALTH CARE (3 Credits)**
**Prerequisite(s):** ECO-101

**ECO-498G STUDENT INVOLVEMENT IN VOLUNTEER & SOCIAL ACTIVITIES (3 Credits)**
Research in selected topics in economics under the supervision of a faculty member, designed to allow the student to probe specific interests that lie beyond the coverage normally found in regular course offerings.

**ECO-499 Special Topics (1-3 Credits)**
A well-defined course of study in specific topics in economics that goes beyond the regular course offerings.

**ECO-499A SP TOP: DEVELOPMENTAL ECONOMICS (1-3 Credits)**
A well-defined course of study in specific topics in economics that goes beyond the regular course offerings.

**ECO-499EH SP TOP:ECONOMICS OF HEALTH (1 Credit)**
A well-defined course of study in specific topics in economics that goes beyond the regular course offerings.
EDUCATION (EDUC)

EDUC-COMP WRITTEN COMPREHENSIVES (0 Credits)
Restrictions: RG.UG.GR

EDUC-ELEC EDUCATION ELECTIVE (3.00000 Credits)

EDUC-099A SAFE SCHOOLS WORKSHOP (0 Credits)
All applicants for a New York certificate on or after February 2, 2001 are required to complete two clock hours of coursework or training regarding the identification and reporting if suspected child abuse and maltreatment in accordance with Section 3003(4) and 3004 of the Education Law. This two-hour workshop fulfills this requirement for New York candidates.

EDUC-099B CHILD ABUSE PREVENTION (0 Credits)
All applications for New York certification are required to complete two clock hours of coursework or training regarding the identification and reporting if suspected child abuse and maltreatment in accordance with Section 3003(4) and 3004 of the Education Law. This two hour workshop fulfills this requirement of New York candidates.

EDUC-099D CULTURAL DIVERSITY WORKSHOP (0 Credits)
This daylong workshop is required for certification candidates in St. Bonaventure University’s registered initial certification programs. It provides knowledge, skills, and resources essential to the operation of a culturally affirming classroom and furthers the development of culturally competent classroom teachers.

EDUC-099F Harassment, Bullying, Cyberbullying & Di (0 Credits)
This course will address the social patterns of harassment, bullying and discrimination, including but not limited to those acts based on a person’s actual or perceived race, color, weight, national origin, ethnic group, religion, religious practice, disability, sexual orientation, gender or sex. It will also cover the identification and mitigation of harassment, bullying and discrimination; and strategies for effectively addressing problems of exclusion, bias and aggression in educational settings. Successful completion of this course will meet the certificate requirements in §14(5) of Chapter 102 of the Laws of 2012.

EDUC-099K EXPERIENCE IN DIVERSE ENVIRONMENTS (0 Credits)
This non-credit field experience requires students to complete a field experience of at least 30 hours in a diverse setting.

EDUC-101 SOCIAL FOUNDATIONS OF AMERICAN EDUCATION: A CURRENT ISSUES APPROACH (3 Credits)
This course introduces participants to the world of education. It examines the historical and contemporary influences of education on individuals and society as well as the impact of theory, policy, and organization on education. Participants will investigate purposes of education and the roles of those involved in educational processes. They will explore critical issues in education. Participants are required to complete ten hours of observation in educational settings.

EDUC-201 INTRO. TO TEACHING (3 Credits)
This course introduces students to the world of teaching. Students will be introduced to: the work of teachers; historical and philosophical aspects of the American school system from a global perspective; the various roles of school personnel; basic curriculum principles; the political facets of school decisions; ethical and legal issues; the role of standards and standard setting entities; and the terminology and jargon of education. Students will initiate their own personal philosophy and will begin to develop a professional portfolio that will document their process of becoming a teacher. Field component: 10 hours observation.

EDUC-208 DESIGNING AND DELIVERING INSTRUCTION (3 Credits)
This course introduces students to the basic models, strategies, resources, and management tools used to implement instruction. Students will apply models of teaching, develop lessons and assessments, examine curriculum issues, utilize current research, and reflect on practices that are major strands in the course.
Corequisite(s): EDUC-220L or SPED-350L

EDUC-210 HUMAN DEVELOPMENT & LEARNING (3 Credits)
This course introduces students to human development processes and the nature of learning. The study of development includes physical and biological systems, individual cognitive and affective processes and sociocultural models and influences. The nature of learning encompasses theories of learning and classroom application. The course provides an orientation and background for sound educational practice.

EDUC-210H HUMAN DEV & LEARN-HONORS (3 Credits)
Restrictions: RG.HON

EDUC-211 INTRO. TO SIGN LANGUAGE (3 Credits)
This course is designed for students having no previous knowledge of American Sign Language (ASL). It provides a basic understanding of ASL including principles of sign formulation, history of ASL, knowledge of the deaf community and its cultural protocols, finger spelling, numbers, and a basic core vocabulary for the student to communicate in ASL conversation at the beginning level. Acquisition of both comprehension and production skills are encouraged by using the functional/notional (voiceless) approach for instruction.
Restrictions: RGM.107

EDUC-212 INTERMEDIATE SIGN LANGUAGE (3 Credits)
This course expands the basic knowledge presented in ASL I. Spontaneous interaction in ASL mode is stressed by (voiceless) functional/notional instruction. Guided classroom conversations and activities encourage mastery of basic linguistic features, use of cultural protocols, additional core vocabulary, and more sophisticated finger spelling techniques.
Prerequisite(s): Take EDUC-211
Restrictions: RGM.107

EDUC-214 HONORS HUMAN DEVELOPMENT & LEARNING (3 Credits)
This course introduces students to human development processes and the nature of learning. The study of development includes physical and biological systems, individual cognitive and affective processes and sociocultural models and influences. The nature of learning encompasses theories of learning and classroom application. The course provides an orientation and background for sound educational practice.
Restrictions: RG.HON

EDUC-220 BASIC INSTRUCTIONAL DESIGN (3 Credits)
This course introduces students to the essential components of instructional design. Topics include lesson-planning, models of teaching, instructional strategies, techniques and materials. This course includes requirement related to teaching and technology. Assignment will enhance competence with the use of computers as a tool for the teacher and for teaching. Curriculum development, standards and classroom management are included in the course content. Students in this course will be required to log hours in a supervised technology lab to complete assignments and master necessary computer skills. Field components: 35 hours tutoring.
Prerequisite(s): TAKE EDUC-201 AND EDUC-210
EDUC-220L Basic Instructional Design Lab (0 Credits)
This course requires students to log hours in a supervised technology lab in order to complete assignments and demonstrate mastery of technology skills.
Corequisite(s): TAKE EDUC-220 OR EDUC-208

EDUC-232 INDEPENDENT STUDY/RESEARCH ASSISTANT (1-3 Credits)
This course is designed to give the individual an opportunity to work on a one-to-one basis with a professor. The study may be directed toward: research in an area school, creative projects, seminars or other projects as deemed appropriate by the faculty member and approved by the chair of the department. Student responsibilities include: identification of the topic or problem to be examined (prior to registration), selection of a faculty member with whom to work, guidelines set by the professor and provide any feedback to the lead professor and the program director/ chair. Students may not take the course for more than 3 credit hours.

EDUC-250 ADOLESCENT DEVELOPMENT & LEARNING (3 Credits)
This course encompasses lifespan growth and development emphasizing late childhood, adolescent and young-adult issues. The study of development includes physical and biological systems, individual cognitive and affective processes, and socio-cultural models and influences. The course provides an orientation and background for sound educational practice.

EDUC-260 INSTRUCTIONAL STRATEGIES—MIDDLE LEVEL Education (3 Credits)
This course provides an overview of middle level learning environments and instructional strategies that promote active involvement of learners within that structure. Students will investigate early adolescent developmental characteristics, research background, current trends and issues in middle level education and explore techniques utilized in an effective learning environment, including organization, curriculum, instruction and classroom management.
Prerequisite(s): Take EDUC-220

EDUC-270 ENGLISH LANGUAGE LEARNERS IN K-12 CLASSROOM (3 Credits)
This course prepares prospective teachers to work effectively with English language learners (ELLs) in preK-12 classrooms so as to increase the ELL's achievement and adjustment in the classroom. The course will explore ELL student's varied backgrounds, laws and regulations regarding ELL instruction, lesson plan development for appropriate instruction and assessment procedures, selection of classroom management styles, and collaboration and co-teaching methods.

EDUC-305 MUSIC/ART/PHED IN ELEM.SCH (3 Credits)
This course introduces students to music, art and physical education methods for the classroom teacher. One-third of the semester is devoted to each area. Music: This component addresses fundamentals of music notation; theory and ear training; singing and music listening; basic organization of the elementary school music program; and rhythmic, keyboard and creative activities. Art: This component addresses methods and materials for teaching elementary art and covers: fundamental elements of design needed to develop an aesthetic awareness and sensitivity in elementary school students and teachers; basic organization of the elementary school art program; and practical application of the various art media in elementary art programs. Physical Education: This component will center on the organization, methods and materials regarding physical education content for kindergarten through grade six. Active learning approaches to gross motor activities will be implemented.
Corequisite(s): Take EDUC-304 and EDUC-220
Restrictions: RGALLED

EDUC-306 MANAGING INSTRUCTION/BEHAVIOR IN SEC ED (3 Credits)
This course introduces students to the skills of managing the instructional process through identification of curriculum to be taught, standards integration, instructional delivery, assessment and re-teaching. Information is also provided on the various theories and models of classroom management and managing individual student behavior to improve learning and student success.
Prerequisite(s): TAKE EDUC-201, EDUC-250, EDUC-323, SPED-440, EDUC-354

EDUC-312X DEVELOPMENTAL READING (3 Credits)
This course examines the philosophical frameworks of a variety of reading theories and instructional approaches. The course defines sequential reading instruction from decoding print to comprehension with emphasis placed on initial and developmental literacy instruction. The course defines the scope and sequence, as well as state and local standards for literacy curricula. Students will plan and teach lessons in reading, writing, listening and speaking.
Prerequisite(s): TAKE EDUC-201 EDUC-210 EDUC-220 AND SPED-230
Restrictions: RGM.108

EDUC-310 M/M:TCH ELEM SS & LANG ARTS (3 Credits)
This course introduces students to the materials and strategies for teaching elementary social studies and language arts in an integrated manner. Emphasis is placed on initial and developmental literacy instruction. The course defines the scope and sequence, as well as state and local standards for literacy curricula. Students will plan and teach lessons in reading, writing, listening and speaking.
Restrictions: RGM.108

EDUC-325 CHILDREN'S LITERATURE (3 Credits)
This course explores a range of children's literature in English, including traditional tales, picture books, fiction and non-fiction genres and subgenres. We will think critically about what these texts tell us about children's literature as a genre, what literature for young readers reveals about how we understand childhood, and how these books participate in larger movements in history, culture, and art. We will think about the initial and evolving impacts of a few benchmarks in the history of children's literature, and how these canonical texts resonate through children's literature and through culture at large.
EDUC-325H LIT FOR ELEM GRADES - HONORS LITERATURE FOR ELEM. GRADES (3 Credits)
This course offers a systematic review of literature for children in elementary grades. The course covers; integration of literature in the elementary curriculum; children's literacy preference, processes for evaluating children's literature, sources and uses of multicultural literature, periodicals and other sources of information on children's literature; and censorship issues.
Restrictions: RG.HON

EDUC-330 METHODS, MODELS, MANAGEMENT OF INSTRUCTION (2 Credits)
This course addresses specific issues in secondary subjects. Students apply discipline-specific knowledge of basic instructional models, strategies, resources and management tools used to implement instruction. Additional emphasis is placed on the uses of technology, application of discipline-specific curriculum standards, current issues, and professional development.
Prerequisite(s): TAKE EDUC-201, EDUC-250, EDUC-208, SPED-440, EDUC-354

EDUC-332 INDEPENDENT STUDY/RESEARCH ASSISTANT (1-3 Credits)
This course is designed to give the individual an opportunity to work on a one-to-one basis with a professor. The study may be directed toward any related field of study which could include: research in an area school, creative projects, seminars, or other projects as deemed appropriate by the faculty member and approved by the chair of the department. Student responsibilities include: identification of the topic or problem to be examined (prior to registration), selection of a faculty member with whom to work, guidelines set by the professor and provide any feedback to the lead professor and the program director/chair. Students may not take the course for more than 3 credit hours.

EDUC-333 SECONDARY ENGLISH METHODS (1 Credit)
This course examines the methods, skills and best practices for English teachers. The recommended practices and activities from National Council of Teachers of English provide the basis for this content specific course for secondary certification. Students apply the discipline specific knowledge of basic instructional models, strategies, resources, and management tools used to implement instruction. Additional emphasis is placed on the uses of technology, application of discipline specific curriculum standards, current issues, and professional development.
Prerequisite(s): TAKE EDUC-201 EDUC-250 EDUC-354

EDUC-334 SECONDARY MATH METHODS (1 Credit)
This course examines the methods, skills and best practices for Math teachers. The recommended practices and activities from the National Council of Teachers of Math provide the basis for this content specific course for secondary certification. Students apply the discipline specific knowledge of basic instructional models, strategies, resources, and management tools used to implement instruction. Additional emphasis is placed on the uses of technology, application of discipline specific curriculum standards, current issues, and professional development.
Prerequisite(s): TAKE EDUC-201, EDUC-208, EDUC-250, SPED-440 AND EDUC-354

EDUC-337 SECONDARY L.O.T.E. METHODS (1 Credit)
This course offers a systemic review of the methods, skills and best practices for Language Other Than English (LOTE) teachers. The recommended practices and activities from the National Council of Teachers of LOTE provide the basis for this content specific course for secondary certification. Students apply the discipline specific knowledge of basic instructional models, strategies, resources, and management tools used to implement instruction. Additional emphasis is placed on the uses of technology, application of discipline specific standards, current issues, and professional development.
Prerequisite(s): TAKE EDUC-201, EDUC-208, EDUC-250, SPED-440 AND EDUC-354

EDUC-338 SECONDARY SOCIAL STUDIES METHODS (1 Credit)
This course examines the methods, skills and best practices for Social Studies teachers. The recommended practices and activities from the National Council of Teachers of Social Studies provide the basis for this content specific knowledge of basic instructional models, strategies, resources, and management tools used to implement instruction. Additional emphasis is placed on the uses of technology, application of discipline specific curriculum standards, current issues, and professional development.
Prerequisite(s): Take EDUC-201 EDUC-250 EDUC-208 SPED-440 EDUC-354

EDUC-340 SECONDARY MATH METHODS (1 Credit)
This course examines the methods, skills and best practices for Math teachers. The recommended practices and activities from the National Council of Teachers of Math provide the basis for this content specific course for secondary certification. Students apply the discipline specific knowledge of basic instructional models, strategies, resources, and management tools used to implement instruction. Additional emphasis is placed on the uses of technology, application of discipline specific curriculum standards, current issues, and professional development.
Prerequisite(s): TAKE EDUC-201, EDUC-208, EDUC-250, SPED-440 AND EDUC-354

EDUC-341 SECONDARY SCIENCE METHODS (1 Credit)
This course examines the methods, skills and best practices for Science teachers. The recommended practices and activities from the National Science Teachers Association provide the basis for this content specific course for secondary certification. Students apply the discipline specific knowledge of basic instructional models, strategies, resources, and management tools used to implement instruction. Additional emphasis is placed on the uses of technology, application of discipline specific curriculum standards, current issues, and professional development.
Prerequisite(s): TAKE EDUC-201, EDUC-208, EDUC-250, SPED-440 AND EDUC-354

EDUC-354 PROBLEMS OF LITERACY IN SEC SCHOOLS (3 Credits)
This course is designed to address the various difficulties teachers encounter when trying to teach reading to a diverse group of secondary learners. Special needs, English language learners, emotional, economic, social and cognitive problems will be explored. Students will learn strategies teachers can use to enhance literacy of secondary learners.
Prerequisite(s): TAKE EDUC-101 or EDUC-201

EDUC-360 LITERACY IN THE CONTENT AREAR (3 Credits)
This course is a survey of literacy methods and study skills, critical thinking techniques and information processing for literacy in grades 6-12. The course includes text analysis, the role of metacognition and prior knowledge in reading, the integration of the language arts with content subjects, and the use of technology. The role of content teachers in supporting literacy development and in integrating literacy across all subjects is stressed.
Prerequisite(s): TAKE EDUC-201, EDUC-250, EDUC-323, SPED-440, EDUC-354
EDUC-387 CHILD ADVOCACY STUDIES I: PERSPECTIVES On Child Maltreatment & Child Advocacy (3 Credits)
This course is the introductory course for child advocacy studies. This course covers the history, comparative perspectives, the legal framework, responses to child maltreatment, the skills necessary to do the work, other pertinent issues pertaining to child maltreatment and child advocacy, and the future. The field of child maltreatment is fraught with controversy. Much of the class focuses on these controversies. The approach of the course will be from a variety of diverse, professional perspectives including the perspectives of a prosecuting attorney versus a defense attorney. The course is designed for students majoring in criminal justice, education, social work, sociology, psychology, nursing, paralegal, or other area where knowledge of child maltreatment and advocating for children might be necessary. Much of the work will be hands-on.

EDUC-388 CHILD ADVOCACY STUDIES II: PROFESSIONAL & SYSTEM RESPONSES TO CHILD MALTREATMENT (3 Credits)
This course focuses on the responses of professionals to allegations of child maltreatment. The purpose of this course is to expand the student's knowledge and skills in identifying, investigating and prosecuting child maltreatment. The course is designed for students majoring in criminal justice, education, social work, sociology, psychology, nursing, paralegal and other areas where knowledge of child maltreatment investigation and advocacy are necessary. Students will receive competency-based skills training such as forensic interviewing, documentation, etc. 
Prerequisite(s): TAKE EDUC-387

EDUC-389 CHILD ADVOCACY STUDIES III: RESPONDING TO THE SURVIVOR OF CHILD ABUSE & SURVIVOR RESPONSES (3 Credits)
This course is the third course for child advocacy studies. The purpose of this course is to prepare students to recognize the effects of child maltreatment and apply interventions strategies for children and their families. Multidisciplinary approaches to prevention, advocacy and treatment of child maltreatment survivors will be presented and discussed. The course is designed for students majoring in criminal justice, education, social work, sociology, psychology, nursing, paralegal, or other areas where knowledge of child maltreatment and advocating for children will be necessary. The experiential lab for this course involves court room observation and interaction with children.

EDUC-399 SPECIAL TOPICS IN EDUCATION (3 Credits)
This is a well-defined course of study in specific topics in education that goes beyond the regular course offerings.

EDUC-399B SP TOP: INST STRAT/MDL_LVL ED (3 Credits)

EDUC-401 DIAG/PRESCRIPTIVE READING (3 Credits)
This course introduces students to the fundamentals of evaluating the literacy competencies of elementary students. Students learn individual and group strategies for informal and formal diagnosis of literacy difficulties. Emphasis is placed on utilizing research and best practice to determine appropriate prescriptions for remediation. 
Prerequisite(s): TAKE EDUC-304
Restrictions: RGM.108

EDUC-406 EVALUATING LEARNERS & LEARNING (3 Credits)
Students investigate the uses and functions of traditional and alternative assessments in the context of 1) recognized measurement principles; 2) national, state and local standards, and benchmarks; and 3) sensitivity to learner differences and needs. Students will develop, administer and interpret results of a variety of classroom assessments and scoring instruments. Legal, ethical and political aspects of collecting and disseminating assessment results and grades will also be examined. 
Prerequisite(s): TAKE EDUC-201, EDUC-250, EDUC-323, SPED-440, EDUC-354

EDUC-425 ORGANIS/ASSESSMT ELEM CLASSRM (3 Credits)
This course introduces students to the fundamentals of measurement along with formal and informal assessment strategies that are developmentally appropriate, curriculum-specific, and incorporate an awareness of learning styles and multiple intelligences. Authentic and performance assessments will be analyzed and constructed. The course also develops the skills for managing instruction in a wide variety of learner groups and settings in elementary classrooms. 
Prerequisite(s): TAKE EDUC-304
Restrictions: RGM.108

EDUC-430 METHODS AND MODELS OF TEACHING ELEMENTARY STEAM (3 Credits)
This course introduces students to the materials and strategies for teaching elementary science, technology, engineering, arts and mathematics in an integrated manner. The course delineates the disciplines, skills and concepts of each of these disciplines. It also defines the scope and sequence, as well as state and local standards for elementary curricula in each of the disciplines.
Prerequisite(s): TAKE EDUC-304
Restrictions: RGM.108

EDUC-432 INDEPENDENT STUDY/RESEARCH ASSISTANT (1-3 Credits)
This course is designed to give the individual an opportunity to work on a one-to-one basis with a professor. The study may be directed toward: research in an area school, creative projects, or seminars. Student responsibilities include: identification of the topic or problem to be examined (prior to registration), selection of a faculty member with whom to work; analysis of concepts learned at the end of the semester. Students may not take the course for more than 3 credit hours.

EDUC-437 FIELD EXPERIENCE (1-3 Credits)
The Field Experience is designed to provide opportunities for individualized reinforcement in content areas at the N-12 levels in local schools. The experience provides pre-service teachers with more opportunities to work with children in classroom situations through contracting for tutoring sessions, individualizing instruction for a particular pupil, or small group, and utilizing appropriate instructional techniques, methods and strategies.

EDUC-473 BASIC MUSIC THEORY (3 Credits)

EDUC-474 HARMONY (3 Credits)

EDUC-490 ELEM STUDENT TEACHING:PRIMARY (5 Credits)
Student teaching is the culmination of the professional preparation of teachers. The primary student teaching experience (K-3) consists of approximately seven weeks in an elementary classroom. Students are expected to: apply developmentally appropriate instruction to meet individuals' needs, develop both long and short term plans to implement curriculum, use technology to enhance instruction, develop and administer appropriate assessment strategies, organize and manage the classroom environment and exhibit the characteristics and ethics of a professional teacher.
EDUC-491 ELEM STUD TEACH:INTERMEDIATE (5 Credits)
Student teaching is the culminating experience in the professional preparation of teachers. The intermediate student teaching experience (4-6) consists of approximately seven weeks of full-time experience in an elementary classroom. Students are expected to apply developmentally appropriate instruction to meet individual needs, develop both long and short term plans to implement curriculum, use technology to enhance instruction, develop and administer appropriate assessment strategies, organize and manage the classroom environment and exhibit the characteristics and ethics of a professional educator.

EDUC-495 SEC STUD.TEACHING:GRADES 7-9 (5 Credits)
Student teaching is the culminating experience in the professional preparation of teachers. This secondary student teaching experience consists of approximately seven weeks student teaching in grades 7-9. Students are expected to: apply developmentally appropriate instruction to meet individual needs, develop both long and short term plans to implement curriculum, use technology to enhance instruction, develop and administer appropriate assessment strategies, organize and manage the classroom environment and exhibit the characteristics and ethics of a professional educator.

EDUC-495A SR SEM: PROF ASSESSMENT & REFLECTION (3 Credits)
This seminar will focus on professional self-assessment and standards-based documentation. The course will help students synthesize the major learnings in their program as they relate to the components of excellent teaching: planning, instruction and assessment. Students will use theory and research to support decisions in all three components. Pass/Fail. Co-requisite: enrollment in Student Teaching.

Corequisite(s): Take EDUC-490, EDUC-491, EDUC-495, EDUC-496, ED/SPED-490,ED/SPED-491, ED/ECED-490, PHED-490, OR PHED-491

EDUC-496 SEC STUD TEACH:GRADES 10-12 (5 Credits)
Student teaching is the culminating experience in the professional preparation of teachers. This secondary student teaching experience consists of approximately seven weeks student teaching in grades 10-12. Students are expected to: apply developmentally appropriate instruction to meet individual needs, develop both long and short term plans to implement curriculum, use technology to enhance instruction, develop and administer appropriate assessment strategies organize and manage the classroom environment and exhibit the characteristics and ethics of a professional educator.

EDUC-499 SENIOR SEMINAR:CURRENT ISSUES, ASSESSMENT & REFLECTION (3 Credits)
This capstone professional seminar brings to fruition the preparation of student teacher candidates. The course will provide students the opportunity to synthesize the major learnings in their program as they relate to the components of effective teaching: planning, instruction and assessment. Students will apply theory and research to support decisions in all three components. Through research and discussion, student will broaden their perspectives on relevant issues in education today and prepare to engage fully in professional discourse.

Corequisite(s): Take EDUC-490, EDUC-491, ED/SPED-490, ED/SPED-491, ED/ECED-490, PHED-490 and PHED-491
EDUCATION/EARLY CHILDHOOD (ED/ECED)

ED/ECED-490 STD TCH ELEM/EARLY CHILDHOOD (5 Credits)
Corequisite(s): Take EDUC-491
ED/SPED-490 ELEM/SPED STUDENT TCH:PRIMARY (5 Credits)
Student teaching is the culminating experience in the professional preparation of teachers. The primary student teaching experience (K-3) combined with the student teaching for students with disabilities consists of approximately seven weeks of full-time experience in an inclusive primary grade classroom. Students are expected to apply developmentally appropriate instruction to meet individual needs, develop both long and short term plans to implement curriculum, use technology to enhance instruction, develop and administer appropriate assessment strategies, organize and manage the classroom environment and exhibit the characterizes and ethics of professional teacher.

Corequisite(s): TAKE SPED-430 AND SPED-450

ED/SPED-491 ELEM/SPED STUDENT TCH:INTERM (5 Credits)
Student teaching is the culminating experience in the professional preparation of teachers. The primary student teaching experience (4-6) combined with the student teaching for students with disabilities consists of approximately seven weeks of full-time experience in an inclusive primary grade classroom. Students are expected to apply developmentally appropriate instruction to meet individual needs, develop both long and short term plans to implement curriculum, use technology to enhance instruction, develop and administer appropriate assessment strategies, organize and manage the classroom environment and exhibit the characterizes and ethics of a professional teacher.

Corequisite(s): Take EDUC-490
ENGINEERING PHYSICS
(ENGR)

ENGR-103 ENGINEERING GRAPHICS I (3 Credits)
Introduction to engineering drawing and Computer Aided Drafting (CAD).

ENGR-203 STATICS (3 Credits)
Engineering mechanics, applied mathematics, concurrent forces, statics on rigid bodies, equilibrium, friction, three-dimensional theory, energy principles.
Prerequisite(s): Take PHYS-103

ENGR-204 DYNAMICS (3 Credits)
Kinematics and dynamics of a particle. Rigid bodies, momentum principles, work and energy, vibrations, kinematics and dynamics in three-dimensional space.
Prerequisite(s): Take ENGR-203

ENGR-205 STRENGTH OF MATERIALS (3 Credits)
Elementary analysis of strength and deformation of deformable bodies subject to various force systems. Strain and stresses in solids of one, two, and three dimensions.
Prerequisite(s): Take ENGR-203

ENGR-220 INTRODUCTION TO MATLAB (3 Credits)
This course introduces students to MatLab, one of the most widely used software packages for technical and scientific calculation, and to the numerical solution of problems in physics and engineering.

ENGR-252 ENGINEERING MECHANICS (3 Credits)
The study of statics and dynamics with engineering applications. Deformation, strain and stresses in solids of one, two, and three dimensions. Introduction to the mechanics of continuous media, the kinematics and dynamics of fluids; viscous flow, turbulence. Bernoulli’s theorem and the Navier-Stokes equation.
Prerequisite(s): Take PHYS-103 PHYS-104

ENGR-262 ELECTRONICS (3 Credits)
This course is designed for the advanced undergraduate student or the incoming graduate student who desires a basic training in electronics. The course seeks to acquaint the student with the physical principles which govern the use of electronic devices and to allow the student to use these components in the design of circuits.
ENGLISH (ENG)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG-COMPS</td>
<td>COMPREHENSIVES UG (0 Credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG-ELEC</td>
<td>ENGLISH ELECTIVE (4 Credits)</td>
<td></td>
<td>A study of conventions and skills involved in college-level writing. Course assignments emphasize academic argument and discourse as well as the construction of effective sentences, paragraphs, and papers. Required of students needing further preparation to succeed in ENG 101. Not open to students who have successfully completed ENG 101 or who have had ENG 101 waived.</td>
</tr>
<tr>
<td>ENG-100</td>
<td>FUNDAMENTALS OF WRITTEN ENGLISH (3 Credits)</td>
<td></td>
<td>A composition course emphasizing writing foundations, including the development of a writing process with attention to generating content and addressing concerns of structure, style, syntax, and mechanics. Course assignments emphasize critical reading, writing, and argumentation skills, as well as professional and oral communication.</td>
</tr>
<tr>
<td>ENG-101</td>
<td>WRITING I (3 Credits)</td>
<td></td>
<td>A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication.</td>
</tr>
<tr>
<td>ENG-102</td>
<td>Writing II (3 Credits)</td>
<td></td>
<td>A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication.</td>
</tr>
<tr>
<td>ENG-103</td>
<td>WRITING FOR LITERATURE (3 Credits)</td>
<td></td>
<td>A course designed to further develop writing skills and critical abilities in literary studies.</td>
</tr>
<tr>
<td>ENG-104</td>
<td>HONORS WRITING II (3 Credits)</td>
<td></td>
<td>A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication.</td>
</tr>
<tr>
<td>ENG-201</td>
<td>ENGLISH LITERATURE I (3 Credits)</td>
<td></td>
<td>A course covering English literature to 1800. This is required for all majors in English.</td>
</tr>
<tr>
<td>ENG-202</td>
<td>ENGLISH LITERATURE II (3 Credits)</td>
<td></td>
<td>A continuation of ENG 201, which is not, however, a prerequisite. This course carries the survey of the major figures and movements in the history of English literature from 1800 to the present.</td>
</tr>
<tr>
<td>ENG-203</td>
<td>ENGLISH LITERATURE I (3 Credits)</td>
<td></td>
<td>A course covering English literature to 1800. This is required for all majors in English.</td>
</tr>
<tr>
<td>ENG-204</td>
<td>ENGLISH LITERATURE II (3 Credits)</td>
<td></td>
<td>This is a continuation of English 203, which is not, however, a prerequisite, and is an intensive study of English literature, 1800 to the present. This is required for all majors in English.</td>
</tr>
<tr>
<td>ENG-210</td>
<td>INTRO TO LIT: NARRATIVE (3 Credits)</td>
<td></td>
<td>An introductory study of the short story and the novel. Emphasis is on the development of critical ability to analyze the narrative in terms of its basic elements: plot, characterization, point of view and symbolic structure.</td>
</tr>
<tr>
<td>ENG-211</td>
<td>INTRO TO LIT: POETRY (3 Credits)</td>
<td></td>
<td>An introductory study of poetry. Emphasis is on the development of critical ability to analyze various forms of poetry in terms of sound elements, imagery, figures of speech and symbolic structure.</td>
</tr>
<tr>
<td>ENG-212</td>
<td>INTRO. TO LITERATURE: DRAMA (3 Credits)</td>
<td></td>
<td>An introductory study of drama. Emphasis is on the development of critical ability to analyze plays in terms of their basic elements: plot, characterization, tragic and comic structuring and dialogue.</td>
</tr>
<tr>
<td>ENG-213</td>
<td>POPULAR LIT. (3 Credits)</td>
<td></td>
<td>A course covering English literature to 1800. This is required for all majors in English.</td>
</tr>
<tr>
<td>ENG-213A</td>
<td>POPULAR LIT. THE AGE OF SHAKESPEARE: A CULTURAL</td>
<td></td>
<td>Analysis of several types of popular literature: the western, the mystery story, science fiction, sports literature, with a consideration of the relationship between popular literature and the literature of high culture.</td>
</tr>
<tr>
<td>ENG-213B</td>
<td>POPULAR LIT. THE AGE OF SHAKESPEARE: A CULTURAL</td>
<td></td>
<td>Analysis of several types of popular literature: the western, the mystery story, science fiction, sports literature, with a consideration of the relationship between popular literature and the literature of high culture.</td>
</tr>
<tr>
<td>ENG-213C</td>
<td>POPULAR LIT. THE AGE OF SHAKESPEARE: A CULTURAL</td>
<td></td>
<td>Analysis of several types of popular literature: the western, the mystery story, science fiction, sports literature, with a consideration of the relationship between popular literature and the literature of high culture.</td>
</tr>
<tr>
<td>ENG-214</td>
<td>INTRO TO LIT: DRAMA (3 Credits)</td>
<td></td>
<td>A composition course emphasizing the practical application of principles of effective speaking to various rhetorical situations. Course assignments emphasize professional and advanced academic writing and presentations with an emphasis on the development of critical ability to analyze plays in terms of their basic elements: plot, characterization, tragic and comic structuring and dialogue.</td>
</tr>
<tr>
<td>ENG-215</td>
<td>INTRO TO LIT: POETRY (3 Credits)</td>
<td></td>
<td>An introductory study of poetry. Emphasis is on the development of critical ability to analyze various forms of poetry in terms of sound elements, imagery, figures of speech and symbolic structure.</td>
</tr>
<tr>
<td>ENG-216</td>
<td>INTRO TO LIT: NARRATIVE (3 Credits)</td>
<td></td>
<td>An introductory study of the short story and the novel. Emphasis is on the development of critical ability to analyze the narrative in terms of its basic elements: plot, characterization, point of view and symbolic structure.</td>
</tr>
<tr>
<td>ENG-217</td>
<td>INTRO TO LIT: DRAMA (3 Credits)</td>
<td></td>
<td>An introductory study of drama. Emphasis is on the development of critical ability to analyze plays in terms of their basic elements: plot, characterization, tragic and comic structuring and dialogue.</td>
</tr>
<tr>
<td>ENG-218</td>
<td>INTRO TO LIT: POETRY (3 Credits)</td>
<td></td>
<td>An introductory study of poetry. Emphasis is on the development of critical ability to analyze various forms of poetry in terms of sound elements, imagery, figures of speech and symbolic structure.</td>
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<tr>
<td>ENG-219</td>
<td>INTRO TO LIT: NARRATIVE (3 Credits)</td>
<td></td>
<td>An introductory study of the short story and the novel. Emphasis is on the development of critical ability to analyze the narrative in terms of its basic elements: plot, characterization, point of view and symbolic structure.</td>
</tr>
<tr>
<td>ENG-220</td>
<td>AMERICAN LITERATURE I (3 Credits)</td>
<td></td>
<td>A single semester survey of the outstanding literary figures of America from the beginnings to naturalism. Required for all English majors.</td>
</tr>
<tr>
<td>ENG-221</td>
<td>AMERICAN LITERATURE II (3 Credits)</td>
<td></td>
<td>Analysis of several types of popular literature: the western, the mystery story, science fiction, sports literature, with a consideration of the relationship between popular literature and the literature of high culture.</td>
</tr>
<tr>
<td>ENG-223</td>
<td>INTRO TO LIT: DRAMA (3 Credits)</td>
<td></td>
<td>A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication.</td>
</tr>
<tr>
<td>ENG-224</td>
<td>INTRO TO LIT: POETRY (3 Credits)</td>
<td></td>
<td>An introductory study of poetry. Emphasis is on the development of critical ability to analyze various forms of poetry in terms of sound elements, imagery, figures of speech and symbolic structure.</td>
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<tr>
<td>ENG-225</td>
<td>INTRO TO LIT: NARRATIVE (3 Credits)</td>
<td></td>
<td>An introductory study of the short story and the novel. Emphasis is on the development of critical ability to analyze the narrative in terms of its basic elements: plot, characterization, point of view and symbolic structure.</td>
</tr>
<tr>
<td>ENG-226</td>
<td>PROFESSIONAL COMMUNICATION (3 Credits)</td>
<td></td>
<td>A course grounded in the practical application of principles of effective written, visual, and digital communication in professional contexts. Course assignments emphasize professional documents and genres, professional and disciplinary research, multimodal composition, and rhetorical concerns related to purpose, audience, and context.</td>
</tr>
<tr>
<td>ENG-227</td>
<td>CREATIV WRITING NARRATIVE (3 Credits)</td>
<td></td>
<td>A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication.</td>
</tr>
<tr>
<td>ENG-228</td>
<td>CREATIV WRITING POETRY (3 Credits)</td>
<td></td>
<td>An introductory study of poetry. Emphasis is on the development of critical ability to analyze various forms of poetry in terms of sound elements, imagery, figures of speech and symbolic structure.</td>
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<tr>
<td>ENG-229</td>
<td>CREATIV WRITING NARRATIVE (3 Credits)</td>
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<td>An introductory study of the short story and the novel. Emphasis is on the development of critical ability to analyze the narrative in terms of its basic elements: plot, characterization, point of view and symbolic structure.</td>
</tr>
<tr>
<td>ENG-230</td>
<td>PUBLIC SPEAKING (3 Credits)</td>
<td></td>
<td>A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication.</td>
</tr>
<tr>
<td>ENG-231</td>
<td>ENGLISH LITERATURE I (3 Credits)</td>
<td></td>
<td>A course covering English literature to 1800. This is required for all majors in English.</td>
</tr>
<tr>
<td>ENG-232</td>
<td>ENGLISH LITERATURE II (3 Credits)</td>
<td></td>
<td>A continuation of ENG 201, which is not, however, a prerequisite. This course carries the survey of the major figures and movements in the history of English literature from 1800 to the present.</td>
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<tr>
<td>ENG-233</td>
<td>ENGLISH LITERATURE I (3 Credits)</td>
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<tr>
<td>ENG-234</td>
<td>ENGLISH LITERATURE II (3 Credits)</td>
<td></td>
<td>This is a continuation of English 203, which is not, however, a prerequisite, and is an intensive study of English literature, 1800 to the present. This is required for all majors in English.</td>
</tr>
</tbody>
</table>
ENG-270B ADV CREATIVE WRIT: NARRATIVE (3 Credits)
Prerequisite(s): Take ENG-270

ENG-271 CREATIVE WRITING: POETRY (3 Credits)
This course will explore poetry as a medium. Each student will write poems, and the work of all students will be studied in class and in conference with the instructor. The work of published poets will be used regularly to suggest possibilities and directions in both form and content.

ENG-271B ADV CREATIVE WRITING: POETRY (3 Credits)
Prerequisite(s): Take ENG-271

ENG-272 CREATIVE WRITING: DRAMA (3 Credits)
A course designed to develop basic techniques of playwriting: plot construction, character development through dialogue and action, scene development and staging. Emphasis will be on one-act plays although structural analysis of longer plays will be made. Works of both students and established playwrights will be studied.

ENG-275 RHETORICAL CRITICISM & THEORY (3 Credits)
This class situates writing in the rhetorical tradition and thus foregrounds writing as a public and persuasive practice. Possible areas of consideration include the history of rhetoric, writing as public discourse, rhetorical theory, visual rhetoric, and topics in rhetoric. Student writing will focus on analysis, argumentation, and persuasion.

ENG-310 ENGLISH LIT. TO 1485 (3 Credits)
Consideration of the principal works in early and medieval English literature, beginning with Beowulf and Bede, and including Piers Plowman, Troilus and Criseyde, Sir Gawain, as well as the beginning of English drama. 3

ENG-320 ENG RENAISSANCE LIT 1485-1603 (3 Credits)
A study of non-dramatic English literature from the accession of Henry VII to the death of Elizabeth. Topics include the development of literary genres, continental and classical backgrounds, the neoplatonic tradition, humanism and the argumentative structure of controversial religious and political prose. Spenser’s Faerie Queene receives close attention.

ENG-321 ENGLISH LITERATURE 1603-1660 (3 Credits)
A study of non-dramatic English literature from the accession of James I to the restoration of the monarchy in the person of Charles II. The course devotes equal attention to poetry and prose. The poetry is examined in terms of the traditions established by Donne, Jonson and Spenser. The prose is analyzed thematically and stylistically with attention given to new prose genres and the four major seventeenth-century prose styles: Ciceronian, Senecan, Baroque and ‘Scientific.’

ENG-325 WRITING IN DIGITAL ENVIRONMENTS (3 Credits)
This course will give students experience writing in a range of digital spaces. Possible writing environments and technologies include blogs, wikis, websites, videos, podcasts, social media platforms, interactive and electronic fiction, video games, and virtual worlds. Students will develop skills and writing practices related to analysis, argumentation, creative writing, media production, design, editing, and coding. At the same time, the course foregrounds writing in specific digital environments and asks students to consider how these contexts shift and shape the act of writing.

ENG-326 DIGITAL RHETORIC (3 Credits)
This course will help students think critically about the ways in which digital technologies shape rhetorical and expressive practices. Possible areas of consideration include electronic literature, hypertext fiction, digital poetry, conversations in digital humanities, public sphere studies, the virtual, video games/procedural rhetoric, electracy, platform studies, and critical code studies. The course may allow students to practice writing in different digital spaces, but it foregrounds the writing or more traditional analysis papers focusing on digital rhetorical technologies, practices, and texts.

ENG-330 LIT OF RESTORATION & 18TH CENT (3 Credits)
British literature written between 1660 and 1790 is studied within a framework of literary and historical relationships, with emphasis on principal works by Dryden, Wycherley, Congreve, Swift, Pope, Goldsmith, Sheridan, Johnson and Boswell.

ENG-340 THE ROMANTIC MOVEMENT (3 Credits)
Survey of the works of the major writers of the first half of the British Romantic period (Charlotte Smith, Wordsworth, Coleridge, Byron, Shelley, Keats) with attention to their place in the Romantic Movement and their relationship to social and cultural thought of the time.

ENG-340A THE ROMANTIC MOVEMENT I (3 Credits)

ENG-340B ROMANTIC MOVEMENT II (3 Credits)

ENG-341 THE ROMANTIC MOVEMENT: PT II (3 Credits)
Survey of the cultural and literary elements of the second half of the British Romantic period (writers born after 1775), with focus on the major works for Lord Byron, Percy Shelley, John Keats and Mary Shelley.

ENG-350 CREATIVE WRIT: NARRATIVE II (3 Credits)
This course focuses on extensive fiction writing of short stories, coupled with reading and discussion of short fiction and novels directed at developing the craft of fiction. Students develop their writing through multiple workshops and revisions of short fiction directed at preparing work for presentation and publication.
Prerequisite(s): Take ENG-270

ENG-351 CREATIVE WRITING: POETRY II (3 Credits)
Advanced study of the sources, modes, and strategies of poetry, with attention given to sequences of poems and to the development of a personal poetic voice.
Prerequisite(s): Take ENG-271

ENG-352 VICTORIAN POETRY (3 Credits)
A survey of the English poets who wrote between 1830 and 1900, excluding Tennyson and Browning.

ENG-360 MODERN POETRY (3 Credits)
A study of English and American poetry from 1900-1945, with the close attention to Yeats, Eliot, Thomas, Williams and Stevens.

ENG-363 DRAMA 1850 TO THE PRESENT (3 Credits)
A study of European as well as English and American dramatists from the mid-nineteenth century through the theatre of the absurd.

ENG-365 CONTEMPORARY BRIT & AMER LIT (3 Credits)
Structural approach to British and American literature since 1945. This course deals with the poetry of Olson, Duncan, Creeley, Roethke, Ginsberg and Dickey, among others.

ENG-366 CONTEMPORARY BRIT/AMER LIT. (3 Credits)
Structural approach to British and American Literature since 1945. This course is concerned with the fiction of Mailer, Malamud, Pynchon and Barth, among others.
ENG-370 ENGLISH NOVEL 1740-1850 (3 Credits)
The emergence and development of the English novel from the beginnings with Defoe, Richardson, and Fielding to the Victorian novels of the Brontes, Thackeray and Dickens.

ENG-371 ENGLISH NOVEL 1850-1950 (3 Credits)
The beginnings of the great twentieth century themes of isolation and alienation as reflected in the novels of Hardy, Conrad, Lawrence, Joyce and others.

ENG-375 AMERICAN NOVEL TO 1865 (3 Credits)
A study of the development of the American novel from its inception to the end of the Civil War.

ENG-376 AMERICAN NOVEL, 1865-1920 (3 Credits)
A critical study of the American novel from the beginnings of the realistic movement to the end of World War I with emphasis on representative works.

ENG-377 WOMEN IN LITERATURE (3 Credits)
In-depth critical investigation of literature written by or about women. Concentration on works from the eighteenth, nineteenth and twentieth centuries. Focus on fiction.

ENG-379 AFRICAN AMERICAN LITERATURE (3 Credits)
This course provides students with a survey of major works by African American novelists, poets, dramatists, and essayists from the 18th Century through to the present day. The course will pay particular attention to how African American writers present themselves as authors and their interactions with and revisions of a white American literary tradition. By the end of the course, students will have examined the literature of American slavery, Reconstruction, the Harlem Renaissance, the Black Arts Movement, and contemporary black culture.

ENG-380 WORLD LITERATURE (3 Credits)
A study of selected masterpieces from non-English literatures, with special emphasis on those which are central to the culture of Western Europe.

ENG-390 LITERARY THEORY (3 Credits)
A study of major theoretical problems in literature through selected literary works. The course will address topics in the following areas: literature and the other arts, the function of literature in society, structural principles in poetry, narrative and drama, and levels of meaning in literary interpretation.

ENG-391 LITERARY CRITICISM (3 Credits)
A study of major critical approaches to literature through selected works of poetry, narrative and drama. The course will survey techniques in the following traditional and contemporary approaches: historical, psychological, archetypal, feminist and post-structuralist as well as the basic identities of classical, romantic and modern literary movements.

ENG-410 CHAUCER (3 Credits)
Consideration of The Canterbury Tales with special emphasis on modern critical interpretation and Chaucer’s artistic technique.

ENG-423 SHAKESPEARE I (3 Credits)
Shakespeare will be studied as poet and playwright, against the literary, social and historical background of Elizabethan England. Critical reading of representative plays from the comedies and histories.

ENG-423O SHAKESPEARE (OXFORD PROGRAM) (3 Credits)
A continuation of English 423 which is not, however, a prerequisite. The plays studied will be taken from among the tragedies.

ENG-425 SHAKESPEARE AT STRATFORD (2 Credits)
After a five-week classroom analysis of three Shakespearean plays, students attend a performance of each play, on an early October weekend, at the Stratford Festival in Ontario. Travel expenses are not covered by tuition and thus a deposit is required to the instructor during registration period. Since different plays are studied each fall, this course may be repeated for additional credit.

ENG-427 SPENSER-MILTON (3 Credits)
An intensive study of Milton’s poetry and prose. The course will focus on the relation of Milton’s work to the allegorical, rhetorical, epic, and mythological traditions of the seventeenth century.

ENG-434 SHAKESPEARE-TRAGEDIES (3 Credits)
ENG-446 CONTEMPORARY DRAMA (3 Credits)
ENG-450 TENNYSON AND BROWNING (3 Credits)
A detailed study of the works of the two major poets of the Victorian period with attention to their poetic development and to characteristic Victorian ideas as they appear in the poetry.

ENG-460 MODERN POETRY (3 Credits)
ENG-463 GEORGE B. SHAW (3 Credits)
A study of selected plays of George Bernard Shaw with an emphasis on his development as a playwright and dramatic theorist.

ENG-472 LIT & SOC IMPLICAT. (3 Credits)
ENG-490 SPECIAL TOPICS (3 Credits)
This course will provide students with a sustained examination of a specific topic, genre, form, period, or theme not offered elsewhere in the curriculum. It will enable faculty members to engage students in the classroom with their current research projects and also to provide an opportunity to try out courses that we may later seek to make permanent parts of the curriculum.

ENG-491 ENGLISH INTERNSHIP (1-3 Credits)
The English internship allows students to apply the skills and proficiencies they develop through their program in English in a professional setting. Each internship can earn between one and three credits. Credit value will be determined by the department chair (or a designee within the department) in light of hours worked, responsibilities, and duration of the internship, with a rough guide of 50 hours of internship equivalent to one credit hour. Internships may be taken during the summer or academic year.

ENG-496 POPULAR LITERATURE (3 Credits)
ENG-498 SENIOR WRITING WORKSHOP (3 Credits)
This course allows students to complete a substantial writing project while drawing on skills developed over their time at Bonaventure. The writing project will be specific to the student’s interests and can speak to any of the English department’s areas of writing expertise: argument and analysis, creative writing, literary criticism, professional and technical writing, and digital writing.
ENVIRONMENTAL STUDIES (ENV)

ENV-101 INTRODUCTION TO SUSTAINABLE SYSTEMS (3 Credits)
Sustainability is defined as meeting the needs of the present without compromising the ability of future generations to meet their needs. This course explores how humans think about the global challenges we face, the systems that make up the natural world in which we live, and how we go about living there. An emphasis is placed on systems theory to understand the connections among various challenges facing humans across the planet.

ENV-221 SUSTAINABLE LIVING: ARCHITECTURE & PLACEMAKING (3 Credits)
Studies human response to sustainably built environments and the effects these structures and places have on their inhabitants. Sustainable architecture, city planning, accessible design, and the response of the human psyche will be explored through a series of lectures, field trips, and direct exploration of different buildings and places. This course satisfies part of the Social Science and Policy concentration requirement in the Environmental Studies major, but it is open to students of any major.

ENV-232 ENVIRONMENTAL STUDIES INTERNSHIP (3 Credits)
ENV 232, an internship in Environmental Studies, is a required course for the Environmental Studies major. Students apply learning, skills, and knowledge relevant to environmental issues in an internship setting. Permission of instructor required. Students must submit a proposal in writing detailing expectations and goals associated with the internship in advance of undertaking it, and must summarize their activities and their outcomes in a written report following its conclusion.

ENV-242 INDEPENDENT STUDY (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242A IND ST: FRANCISCAN CARE FOR CREATION (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242B IND ST: SUSTAINABLE LIVING: ARCHITECTURE AND PLACEMAKING (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242EA IND ST: FRANCISCAN CARE FOR CREATION (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242EH SP TOP ENVIRONMENTAL HISTORY (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242NS IND STUDY (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242SP IND STUDY (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242SPA IND ST: WILDERNESS, CULTURE & THE ENVIRONMENT (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242SPB IND ST: WILDERNESS, CULTURE & THE ENVIRONMENT (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242SPE IND ST: WILDERNESS, CULTURE & THE ENVIRONMENT (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-242SPF IND ST: WILDERNESS, CULTURE & THE ENVIRONMENT (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

ENV-310 ENVIRONMENTAL REGULATION & TESTING (3 Credits)
An examination of the sources of various environmental regulations and the application of these regulations to industrial and municipal operations. The physical and chemical testing needed to enforce the regulations will be examined. Teams of students will work on case studies as projects to be presented in class with the objective of demonstrating complexity of enforcing regulations.

Prerequisite(s): CHEM-101, CHEM-102

ENV-320 ENVIRONMENTAL LAW & POLICY Sustainability Studies (3 Credits)
A topical course which introduces students to environmental law and policy through analysis of a particular problem which will be examined from various perspectives, including what the law decrees and how disputes regarding environmental issues are resolved.
ENV-328 SEMINAR ENV/SUSTAINABLE STUDIES (3 Credits)
ENV 328 is an interdisciplinary, problem centered, 3 credit hour seminar. It examines a key environmental aspect of human-non human interactions and their impacts on the natural world, the built environment, and human society and culture. The seminar is attentive to such interactions from the perspective of 1) environmental ethics and aesthetics, 2) environmental social policy, and 3) environmental science. Student teams collaborate with their instructor in addressing these three aspects of a particular environmental issue in a problem-centered seminar setting.

ENV-401 SENIOR CAPSTONE PROJECT (3 Credits)
The capstone course offers the senior Environmental Studies major the opportunity to carry out in-depth research guided by a professor, in a particular area of the field. The students presents to his/her peers in a seminar format the results of the research. Additionally, a major paper is completed.
FINANCE (FIN)

FIN-210 MONEY MANAGEMENT SEMINAR (1 Credit)
This is an entry level course listing that allows students to learn about finance and money management and get course credit for actively participating in the SIMM program at levels that are less rigorous than the FIN 410/FIN 420 expectations. This course allows you to vote on investment decisions and make stock pitches without the managerial responsibilities that come with the upper level classes. Students can become Jr. Level analysts while learning as a slower pace while still having the structure of a class. 1.0 credits. This course may be taken up to six times. Students with a major in Finance may not have the credit count towards the elective requirement for the major.

FIN-301 CORPORATION FINANCE (3 Credits)
An in-depth analysis of the financial structure and problems of the corporation. Topics treated include valuation and risk, capital structure, the capital-budgeting decision, long-term financing decisions, working capital policy and financial analysis.
Prerequisite(s): Take ECO-101, ACCT-201 and QMX-211 or MATH-107

FIN-312 ECONOMETRICS FOR FINANCE (3 Credits)
This course will develop both the theory and practice of econometrics at a level that will allow students to be knowledgeable producers and users of empirical research in finance. Among the topics covered are multiple regression and correlation, dummy variables, simultaneous equation models and the study of the methods utilized when the classical assumptions are violated.
Prerequisite(s): Take MATH-122 and QMX-212

FIN-321 MONEY AND BANKING (3 Credits)
A study of the theory and practices of the monetary and banking systems of the United States and their influence on economic activity.
Prerequisite(s): Take ECO-101 & ECO-102

FIN-322 FINANCIAL INST. & MARKETS (3 Credits)
A detailed examination of the major aspects of the United States money and capital markets. A survey of the operations and functions of private financial institutions and their effect on aggregate economic activity.
Prerequisite(s): Take FIN-321

FIN-333 THE ECON & FIN OF SPORTS (3 Credits)
This course is designed for two purposes: to use sports to deepen our understanding of economics and financial markets and to use economics and financial markets to deepen our understanding of sports. There is a vast array of topics that we will cover including attendance modeling, salary structure, salary caps, financing of stadiums, tournament structure, competitive balance, doping in sports, gambling markets, etc. Key economic principles covered include supply and demand, industrial organization, price theory, labor markets, salary determination and discrimination, tournament theory, Coase Theorem, and game theory. Financial principles covered include financing of sports teams in different leagues, public vs private financing of stadiums, efficient markets hypothesis, and behavioral finance. We will cover historical topics and address current events. Students will participate in class discussion, read economic papers on sports, and give short presentations on the articles they read.

FIN-334 SPORTS ANALYTICS (3 Credits)
Students will develop and apply analytical skills that are useful in a general business environment, applied specifically to sports. Students will learn how to apply methods and principles in a wide range of applications for purposes of in-game strategy, team management, player performance and fantasy competitions, among many other topics.
Prerequisite(s): Take QMX-212 and IT-220

FIN-381 REAL ESTATE FINANCE (3 Credits)
An in-depth study of real estate as an investment. Course coverage includes an analysis of the factors critical to the success of an investment in real estate, including operating cash flows, increases market value, alternative sources of financing and the effects of income taxes. In addition, the course provides detailed coverage of various techniques used to evaluate potential real estate investments. The course utilizes lectures to introduce new subject matter and a series of case studies to provide hands-on experience to the student.
Prerequisite(s): Take FIN-301

FIN-401 ADV CORPORATE FINANCE (3 Credits)
An in-depth study of corporate finance. Topics will include valuation, risk analysis, risk management, capital budgeting, capital structure, mergers and acquisitions, market efficiency, long-term financing, and short-term finance.
Prerequisite(s): Take FIN-301

FIN-402 PROBLEMS IN FINANCE (3 Credits)
This course is the Finance capstone course. A case studies course designed to build upon and integrate the knowledge accrued from FIN 401 as well as other required courses in finance. Particular reference is made to current problems in finance.
Prerequisite(s): Take FIN-401

FIN-410 STUDENT INVESTMENT FUND (3 Credits)
The Student Investment Fund asks students to manage a real estate investment portfolio. Students make and implement assets allocation decisions, analyze sectors and individual companies and manage administrative issues. Students are responsible for reporting their activities and investment results to an advisory board.
Prerequisite(s): Take FIN-301

FIN-410A STUDENT INVESTMENT FUND (3 Credits)
Prerequisite(s): Take FIN-301

FIN-410B STUDENT INVESTMENT FUND (3 Credits)
Prerequisite(s): Take FIN-410A

FIN-420 STUDENT INVESTMENT FUND II (3 Credits)
Students in SIMM II are asked to manage an energy hedge fund. Students will make investment decisions across all areas of the energy universe. They can trade (long or short) in equities, futures, and options. Students are responsible for active risk management and regular reporting to an advisory board.
Prerequisite(s): Take FIN-410

FIN-421 INVESTMENTS (3 Credits)
An introduction to the field of investments. Modern portfolio theory is treated in depth and provides the basis for a clear understanding of the Capital Asset Pricing model and Arbitrage Pricing Theory. Securities discussed will include common stock, preferred stock, corporate bonds, municipal bonds, warrants, convertibles and stock options.
Prerequisite(s): Take FIN-301
FIN-422 PORTFOLIO THEORY & SELECTION (3 Credits)
A survey of recent theories of risk diversification and portfolio balance. The course begins with the study of differing attitudes toward risk among investors and the implications for asset selection. Alternative valuation methods are reviewed. The problems of forming efficient portfolios and of evaluating their performance as well as those of professionally managed ones are considered. The motivation and consequence of including options, future and swaps in portfolios will also be examined.
Prerequisite(s): Take FIN-421

FIN-461 INTERNATL FINANCIAL MGMT (3 Credits)
A study of the problems and opportunities faced by the financial manager of firms exposed to foreign exchange risk. Topics covered will include the basic forms of foreign exchange contracts: spot, forward, futures and options, as well as the use of these contracts for hedging, arbitrage, and speculative purpose. Investment and financing decisions in international capital markets will be discussed in detail.
Prerequisite(s): Take FIN 301

FIN-498 IND. STUDY & RESEARCH (1-6 Credits)
Research in selected topics in finance and banking under the supervision of a faculty member. Designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular offerings.

FIN-498A Ind Stdy/Research: Financial Modeling (3 Credits)

FIN-498B IND. ST: BEHAVIORAL FINANCE (3 Credits)
Research in selected topics in finance and banking under the supervision of a faculty member. Designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular offerings.

FIN-499 SPECIAL TOPICS (1-3 Credits)
A well-defined course of study in specific topics in finance such as business cycles, public finance nonprofit finance and banking, which go beyond the regular course offerings.

FIN-499A IND. STUDY & RESEARCH (1-3 Credits)

FIN-499B FINANCIAL PLANNING (3 Credits)

FIN-499C SP.TOP: BANK MANAGEMENT (3 Credits)

FIN-499D STUD MANAGED INVESTMENT FUND (3 Credits)

FIN-499E PRINC OF RISK & INSURANCE (3 Credits)

FIN-499F SP TOP: FINANCIAL MODELING (3 Credits)
Prerequisite(s): Fin-301

FIN-499G SP TOP: BEHAVIORAL FINANCE (3 Credits)
Prerequisite(s): Take FIN-301

FIN-499J SP TOP: ALGORITHMIC TRADING & APPLIED FINANCE PROJECTS (3 Credits)

FIN-499K SP TOP: FINANCIAL MODELING (1-3 Credits)
A well-defined course of study in specific topics in finance such as business cycles, public finance nonprofit finance and banking, which go beyond the regular course offerings.

FIN-499LM SP TOP: LONDON FINANCIAL MARKETS (3 Credits)
A well-defined course of study in specific topics in finance such as business cycles, public finance nonprofit finance and banking, which go beyond the regular course offerings.
Prerequisite(s): Take FIN-301
Restrictions: RGM.134
FRENCH (FREN)

FREN-101 ELEM. FRENCH I (3 Credits)
The fundamentals of French grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

FREN-102 ELEM. FRENCH II (3 Credits)
The fundamentals of French grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.
Prerequisite(s): Take FREN-101

FREN-201 INTERMED FRENCH I (3 Credits)
A systematic review of French grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.
Prerequisite(s): Take FREN-102

FREN-202 INTERMED FRENCH II (3 Credits)
A systematic review of French grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.
Prerequisite(s): Take FREN-201

FREN-301 FRENCH CONV & READ 1 (3 Credits)
Conversation and reading at the intermediate/advanced level stressing new vocabulary and idiomatic expressions.
Prerequisite(s): Take FREN-202

FREN-480 FRENCH LITERATURE IN TRANSLATION (3 Credits)
Offered in English. This course introduces works of major French novelists, poets and playwrights from the Middle Ages to modern times. 3 credits. Fall or Spring.
FRESHMAN FOUNDATIONS (FRES)

FRES-100 FRESHMAN FOUNDATIONS (0 Credits)
This is a non-credit class that meets once a week. The class will focus specifically on developing and practicing skills proven to be key to college academic success. Different sections of FRES 100 will focus on study skills and habits recommended for success in that discipline. All sections will also include a focus on time management and communication. This non-credit course is graded Pass/Fail.

FRES-101 FRESHMAN FOUNDATIONS (0 Credits)
This is a non-credit course that meets twice weekly for one semester. This class will focus specifically on developing and practicing skills proven to be key to college academic success. FRES 100 will focus on study skills and habits recommended for success in college academics. The course will also include a focus on time management and communication. This non-credit course is graded Pass/Fail.
HEALTH AND SOCIETY (HSOC)

HSOC-401 HEALTH & SOCIETY SEMINAR (3 Credits)
This course explores recent issues in the science, practice, and delivery of health care in our society. Students will thoroughly prepare readings from the recent literature on these subjects, and discuss them in a seminar format with student presentations. This course fulfills the Comprehensive Examination requirement for students pursuing either B.A. or B.S. degrees in Health and Society. This course is designed to be taken in a student’s senior year.
HEALTH SCIENCE (HS)

HS-101 INTRO TO HEALTH SCIENCE (3 Credits)
An introductory course for Health Science majors that will explore the concepts surrounding careers in allied health. Topics within the course will focus on medical terminology, communication, ethics, introduction to anatomy and physiology, the US healthcare system, professional dispositions and career options.

HS-102 MEDICAL TERMINOLOGY (1 Credit)
An introductory course that includes the etymology, definitions and abbreviations in medical terminology. Students will learn how to combine the words through prefixes, suffixes, and root elements. The language of healthcare will be connected with the appropriate body system to enhance student’s knowledge.

HS-107 Health-Related Fitness/Wellness (3 Credits)
This course offers an in-depth look into five components of health-related physical fitness and their relationship to the development of personal fitness and wellness. The focus will be on principles of training, health assessment and nutrition trends related to performance and health.

HS-201 Research Methods in Health (3 Credits)
An introductory course in research methodology which provides the essentials of research design, methods, and data collection for students entering a career in the health professions. Quantitative, qualitative, mixed methods and community-based research, along with the attributes of each, will be discussed. The focus will be on the evaluation of the components of a research study in order for students to develop the skills necessary to implement their own independent research.
Corequisite(s): Take HS-101 & MATH-107

HS-210 PATHOPHYSIOLOGY (3 Credits)
This online course will guide students through body systems to gain an understanding of basic pathophysiology. Students will review concepts of basic body function and how each system adapts to stress. To complete lessons, students must have their own device capable of running downloaded applications.

HS-211 PHARMACOLOGY (3 Credits)
This online course will guide students through basic knowledge of pharmacology. Drug categories will be reviewed by body system as well as applied to various illnesses across the lifespan. To complete lessons, students must have their own device capable of running downloaded applications.

HS-301 EPIDEMIOLOGY (3 Credits)
Epidemiology is an exploratory course in the distribution and determinants of health/illnesses and how to prevent or control these issues. This course will introduce students to the history, principles and methods used in epidemiology.
Prerequisite(s): MATH-107, HS-101, HS-201

HS-309 NUTRITION (3 Credits)
Scientific concepts and principles of nutrition related to the macronutrients, digestion/absorption, behavior change, diseases/disorders related to nutrition, and how to develop nutrition plans that promote health and wellness will be discussed.

HS-314 EXERCISE PHYSIOLOGY (3 Credits)
Physiological principles based on the adjustment of the human to exercise are studies with emphasis on neuromuscular activity, circulation, respiration, metabolism, fatigue and fitness.
Prerequisite(s): Take BIO-211 and BIO-212

HS-314L EXERCISE PHYSIOLOGY LAB (1 Credit)
Application of physiological principles based on the adjustment of the human to exercise are studied with emphasis on neuromuscular activity, circulation, respiration, metabolism, fatigue and fitness.
Prerequisite(s): Take BIO-211 BIO-212

HS-401 SEMINAR: CURRENT TOPICS IN HEALTH SCIENCE (3 Credits)
This is a capstone course where students will reflect on their learning and educational experiences in health science through critical discussions of contemporary health issues.
Prerequisite(s): HS-101

HS-413 INTERNSHIP (3 Credits)
This course provides students with opportunities to do internships in fields related to physical education, sport studies or health-related professions.
Restrictions: RG.45+

HS-499 IND ST IN HEALTH SCIENCE (1-3 Credits)
HEOP PROGRAM (HEOP)

HEOP-SS01 ACADEMIC SKILLS (2 CRED EQ) (0 Credits)
HEOP-SS02 WRITING SKILLS (2 CRED EQ) (0 Credits)
HEOP-SS03 MATH (2 CRED EQ) (0 Credits)
HEOP-SS04 SEMINAR (0 CRED EQ) (0 Credits)
HEOP-SS05 CREATIVE ARTS (0 CRED EQ) (0 Credits)
HEOP-SS06 ORAL COMMUNICATION 1 CR. EQUIV (0 Credits)
HEOP-SS07 LIFE SKILLS/CHOICES (0 Credits)
HEOP-SS12 STRUCTURED STUDY (0 Credits)
HEOP-SS13 SCIENTIFIC INQUIRY (2 CRD EQ) (0 Credits)


HISTORY (HIST)

HIST-ELEC HISTORY ELECTIVE (4 Credits)

HIST-100 FIRST YEAR SEMINAR FOR HISTORY MAJORS (3 Credits)
This course is an introductory course for history majors to be taken the fall semester of the first year. The course serves as an introduction to both the discipline and the department. Although the specific content will change from semester to semester, students will be introduced to key concepts, such as historical schools of thought, basic research techniques, and types of history.

HIST-101 EUROPE TO 1815 (3 Credits)
Surveys the principal political, economic, and intellectual forces in European history from the late Middle Ages through the Napoleonic period. The major trends, key personalities, and important institutions are investigated and assessed for their historical significance. Specific topics to be covered include the Renaissance, Protestant Reformation, the Scientific Revolution, and the Enlightenment, among others.

HIST-101C EUROPE TO 1815 (3 Credits)
Surveys the principal political, economic, and intellectual forces in European history from the late Middle Ages through the Napoleonic period. The major trends, key personalities, and important institutions are investigated and assessed for their historical significance. Specific topics to be covered include the Renaissance, Protestant Reformation, the Scientific Revolution, and the Enlightenment, among others.

HIST-102 EUROPE SINCE 1815 (3 Credits)
Surveys the principal political, economic, social, religious, cultural and intellectual forces in Europe from the time of Napoleon to the present. The specific topics that will be studied include the Romantic era, the Industrial Revolution, European imperialism, urbanization, the two world wars and the growth and decline of Communism, among many others.

HIST-106 THE ART OF HISTORICAL DETECTION (3 Credits)
This course is designed to introduce college students to the discipline of history through the detailed examination of a theme within history. The course is designed to be a more active approach to history for students wishing a more involved look at how historians work, argue, and interpret the world.

HIST-200 HIST. METH. & HISTORIOGRAPHY (3 Credits)
A required introductory course in the methods of historical research and writing. The purpose of this course is to familiarize the student with the most famous philosophies of history and to instruct the student in the techniques of how to gather and to organize facts, to check their accuracy and to report the findings simply, clearly and gracefully. The course will unify the history major’s program and prepare the student to do independent research in History 498-499.

HIST-201 U.S. HISTORY TO 1865 (3 Credits)
A survey of the history of the United States from its discovery through the Civil War. American social, economic and cultural influences are woven into the traditional political pattern. Emphasis is on the Colonial Era, the American Revolution, the Early National Period, the Age of Jackson and the Civil War.

HIST-202 U.S. HISTORY SINCE 1865 (3 Credits)
A survey of the history of the United States from Reconstruction to modern times. The course focuses upon the social, economic and cultural growth of the modern United States in the setting of traditional political events. Emphasis given to the growth of business, Progressive Reforms, the Roaring Twenties, the Great Depression, the World Wars and post-war America.

HIST-206 INTRO. TO PUBLIC HISTORY (3 Credits)
A survey of the broad range of career fields and areas of interest in which history can be applied. These include museums, historical societies, archives, historic sites, government agencies, historic preservation projects private consulting firms, computer applications, and grant writing, as well as others.

HIST-207 SPORTS & AMERICAN SOCIETY (3 Credits)
This course follows the development of sports in America from the colonial times to the recent past; over the course of the semester we will examine the transition from folk games to the modern age of spectators. Important to this transformation will be changes in society, technology and business. We will look at the changing definition and purpose of sport, the symbolism of sport, the way in which sport can unify and divide people, and the interaction between sport as a part of culture and society and its relationship to national historical trends.

HIST-208 HISTORY OF AMER. WOMEN (3 Credits)
This course will examine the history of women in North America from the earliest European settlements to the present. Women’s struggles and contributions will be studied culturally, socially, economically and politically as we examine their work in the domestic sphere, factories, fields and their demonstrations for rights in the streets.

HIST-230 AMERICAN MILITARY HISTORY (3 Credits)
This course surveys American military history from 1609 to present. It focuses on military campaigns, leadership, technological and tactical innovation, and the evolution of modern warfare. The major trends, key personalities, and important institutions are investigated and assessed for their historical significance. This course also examines the impact of war on the people of the United States including combatants as well as noncombatants.

HIST-250 WORLD HISTORY TO 1450 (3 Credits)
This course is descriptive and analytical survey of world cultures from early river valley civilizations to 1450, with an emphasis on non-Western civilizations in Asia, Africa and the Middle East. Among the themes explored are the importance of land and water trade routes as conveyors of civilizations, the influence of nomadic peoples on the spread of ideas and technologies, the reshaping of local cultures as Buddhism and Islam spread to Asia and Africa, and the importance of urban centers such as Baghdad as intellectual and cosmopolitan capitals before the ‘rise’ of the West.

HIST-251 WORLD HISTORY SINCE 1450 (3 Credits)
This course surveys world history since 1450 in order to provide with a historical context for understanding current world problems. Using an analytical and comparative approach, it examines the rise of Western global hegemony and how the non-West responded and is still responding. We will look at a wide range of topics and issues including nationalism, imperialism, decolonization and globalization. What role has trade, technology, war and revolution played? How have national and regional interests in the Middle East, Asia and Africa resisted and/or competed with the advance of globalization? What geographic, economic, social, and cultural factors created today’s world?

HIST-307 COLONIAL LATIN AMERICA (3 Credits)
An examination of the social and economic history of Latin America from the coming of the first Europeans until independence in the 1820’s. Topics emphasized will include the physical and spiritual conquest, the forging of new societies, the decline of empire and attempts at reform and the coming of the wars for independence.
HIST-307A COLONIAL LATIN AMERICA (3 Credits)

HIST-308 MODERN LATIN AMERICA (3 Credits)
The course surveys the history of Latin America from independence in 1825 until the present. Special attention will be paid to socio-economic change. Among the topics to be considered are causes of political instability, populism, the Mexican and Cuban revolutions and the relationship with the United States. 

HIST-311 THE U.S. AND THE CARIBBEAN (3 Credits)
This course will examine the relationship between the United States and Central America and the islands of Spanish-speaking Caribbean. The focus will be on the period from 1898 to the present. Among the topics to be explored are: the reasons for the United States’ interest in the region; the impact of that interest on local politics; the long-range impacts of intervention; the impacts of North American culture; and an analysis of which social groups ally with outside interests and which oppose them.

HIST-315 ENVIRONMENTAL HISTORY (3 Credits)
This course examines environmental history from a broad geographic (global) and temporal perspective (ancient times to the present). We will study how humans have interacted with, exploited, and preserved the environment, as well as how different religions and cultures formed their ideas about the environment and nature. This course also explores contemporary environmental issues and policies while using the past to contextualize and inform. Whether discussing environmental collapse on Easter Island in the Pacific Ocean, environmental politics in the United States today, or the process of global warming over the 20th and 21st centuries, students will be challenged to understand individual and collective behaviors in their social, cultural, political, and economic contexts.

HIST-325 MODERN BRITAIN & IRELAND (3 Credits)
A survey of the intertwined history of Great Britain and Ireland over the past two centuries. Topics to be studied include the Industrial Revolution, the British Empire, the Irish potato famine, the world wars, and the problems in Northern Ireland.

HIST-327 FRENCH REVOLUTION/NAPOLEON (3 Credits)
A detailed analysis of one of the most exciting and important eras in the history of the world. The course will trace the collapse of the Old Regime, the various stages of the Revolution, and the rise and fall of Napoleon. The class also will examine the legacies left by the Revolution and Napoleon on France as well as on the entire world.

HIST-359 US IN THE WORLD (3 Credits)
This course examines the history of the United States from the late nineteenth century to the present. During this period, the United States came to play an increasingly important role on the global stage after its Civil War. By placing the United States within a world context, this course seeks to examine ideas such as U.S. exceptionalism, the historical roots of U.S. hegemony, and more generally the utility of national histories.

HIST-359H US IN THE WORLD HONORS (3 Credits)
This course examines the history of the United States from the late nineteenth century to the present. During this period, the United States came to play an increasingly important role on the global stage after its Civil War. By placing the United States within a world context, this course seeks to examine ideas such as U.S. exceptionalism, the historical roots of U.S. hegemony, and more generally the utility of national histories.

Restrictions: RG.HON

HIST-362 HIST IMPERIAL CHINA TO 1800 (3 Credits)
China is frequently represented as a monolithic civilization, self-isolated and static in pre-modern times. This course is a descriptive and analytical survey of Chinese history from its mythological and historical origins in the 2nd millennium BCE to its confrontation with the West in the 19th century. It focuses on critical junctures in the evolution of China’s civilization and the forces that shaped it: the development of political philosophies, state ideologies, and bureaucratic institutions; empire-building, invasion, and rebellion; economic vitality and technological advancement; and finally, China’s rich and varied intellectual, social and cultural life.

HIST-363 MODERN CHINA (3 Credits)
Many view China as an ethnocentric civilization that responded to Western intrusions haphazardly, suffered under Japanese imperialism then under a communist regime but is nonetheless poised to become a dominant world power. This course is a descriptive and analytical survey of Chinese history from the 19th to the 21st century with an emphasis on China’s search for identity and power in the modern world. It examines the changing relationship between the Chinese state and Chinese society and the evolving relationship of the Chinese nation to the rest of the world over the past two centuries.

HIST-364 MODERN JAPAN (3 Credits)
After reviewing early Japanese history to understand how Japanese political and cultural traditions shaped its responses to the West, this course will focus on the rise of Japan from the mid-19th century, how the Japanese experiment with democracy gave way to Japanese militarism and imperialism, how the war in Asia and Pacific evolved out of confluence of Japanese nationalism and world politics, why there is a continuing controversy over the dropping of Atomic bombs to end the war, how the American occupation shaped contemporary Japan, and Japan continues to struggle with its historical legacy. This course will emphasize comparison, analysis and interpretation and include a variety of material including historical studies, documentaries and film.

HIST-365 HIST OF MODERN MIDDLE EAST (3 Credits)
This course is an intensive study of a very expansive topic: the rise of modern Middle East. It examines this topic from three different perspectives: the rise of individual nation-states, the emergency of a region with conflicting religious and political identities, and an international arena of competing global interests.

HIST-366 WOMEN IN EAST ASIA (3 Credits)
Women in East Asia explores how Chinese and Japanese women created, accepted, defended, revised or resisted their roles in a traditional society and how these roles changed after the coming of the West. It will use a comparative approach to understand the similarities and differences in these two traditions as well as how women’s roles varied across class and ethnic boundaries. This course uses an interdisciplinary approach, emphasizes discussion and includes a variety of sources, including historical studies, oral histories, fiction, and film.

HIST-380 EVOLUTION OF INFORMATION & CYBERWARFARE (3 Credits)
This course will introduce students to the major themes, terms, and events relating to the history of both information and cyber warfare. It will examine the history of information warfare, the development of cybercrime, cyberspionage, cyberattacks, and cyberwarfare through historical case studies. It will examine major incidents in the twentieth century to the present.
HIST-407H TWENTIETH CENTURY US HONORS (3 Credits)
A thorough and detailed investigation of the history of the United States
to 1945 touching social, economic, political and intellectual development.
Restrictions: RG.HON

HIST-407 TWENTIETH CENTURY US (3 Credits)
A thorough and detailed investigation of the history of the United States
upon the new American nation.

HIST-403 THE EARLY NATIONAL PERIOD (3 Credits)
Beginning with the creation of the United States, the development of the
American nation is studied through the early 1820's. Special emphasis is
given to political, economic, social and cultural trends within the colonies,
and their relationship to the rest of the British Empire, up to the end of
the French and Indian War.

HIST-402 THE ERA OF THE AM REVOLUTION (3 Credits)
Intensive study is focused upon the period from the French and Indian
War to the Philadelphia Convention, with specific attention to the
foundations of a new American national spirit.

HIST-401 COLONIAL AMERICAN HISTORY (3 Credits)
The discovery, exploration and settlement of North America; and the
development of a British colonial civilization are examined. Emphasis is
given to political, economic, social and cultural trends within the colonies,
and their relationship to the rest of the British Empire, up to the end of
the French and Indian War.

HIST-400 UNITED STATES 1945-2000 (3 Credits)
A thorough and detailed investigation of the history of the United States
from 1945 to the present touching social, economic, political, and
intellectual developments. The role of the United States in world affairs
will be stressed in this course. Wide reading in specific works will be
required.

HIST-417 CULTURE WARS: POLITICS/MEMORY (3 Credits)
This course focuses on the use of history in contemporary partisan
politics and on how competing groups use history to establish their own
identities. Students will become familiar with the development of public
memory and commemoration. Specifically, students will examine recent
ideological conflicts between the left and the right regarding the use
and interpretation of American history. The topics covered in this class
include the influence of history on public policy, interpretations of history
found in popular culture, and political correctness and multiculturalism.

HIST-418 AFRICAN-AMERICAN HISTORY (3 Credits)
This course will survey the history of African-Americans from the
beginning of their involuntary migration to North American in 1619 to the
present day. After examining the origins of racism, the course will follow
the ongoing struggle for equal social, cultural, economic and political
rights.

HIST-419 DIGITAL HISTORY & ARCHIVAL PRACTICES (3 Credits)
This course is designed to encourage students to blend the traditional
skills of a historian (the sorting and analysis of documents) with
new technologies. Students will work with primary and secondary
documents and also will become familiar with Internet research, Web
page creation, databases and a variety of software programs. In addition,
students will be introduced to archival management and exhibit creation.
Approximately one third of the course will be spent in the library working
with archival documents.

HIST-421 HISTORY OF THE FUTURE: SCIENCE FICTION THEN AND NOW
(3 Credits)
Science Fiction has long captured the imaginations of the public.
However, Science Fiction has also often been considered low brow, a
literary form that lacks artistic standing. Over the course of the semester
we will explore the history and development of science fiction looking
at several themes: How has science fiction served as an experimental
literature for those interested in the social and political impact of science
and technology; Science Fiction as an attempt to predict the future and
what that says about society; and Explore the historical context in which
the science fictions was created.

HIST-429 20TH CENT AMER IN FILM/HIST (3 Credits)
Twentieth Century America in Film and History offers an exploration of
the United States cultural and social history through the medium of film
and other mediums of mass culture. Throughout the semester students
will view a variety of films arranged in chronological order. The class will
discuss and write about those films as primary documents within an
historical context, as manifestations of popular culture, as reflections of
society, as manifestations of business and technology, and as works of
art.

HIST-432 THE POLITICS OF POP (3 Credits)
This course blends history and cultural theory to illuminate the ways
that popular culture and specifically popular music mirror many of the
complex political currents of particular historical periods. Questions:
what is 'popular culture'? What are the politics of celebrity? How is an
often subversive cultural product commoditized and marketed for the
masses? What is the line between 'art' and commerce? What role do race,
class, and gender play in the production of popular music?
HIST-450 PIRACY DURING THE AGE OF SAIL (3 Credits)
This course will examine the rise of piracy in the Americas shortly after Spanish colonization through the American Revolution. The class will consider the consequences of state-sponsored piracy during the sixteenth and early to mid-seventeenth centuries and the subsequent state-sponsored violence to eradicate pirates in the late seventeenth and eighteenth centuries. Students will engage with topics ranging from clashing imperial powers and Atlantic trade networks to disorderly maritime frontiers and the changing nature of maritime labor and culture. By delving deeply into the lives of common seamen, this course will seek to understand piracy from the bottom-up through a combination of careful reading of secondary sources and primary source documents by and about pirates.

HIST-464 MODERN IRELAND 1603 TO 1972 (3 Credits)
This course considers the political, social, cultural and religious history of Ireland and its fluctuating relationships with England in the period from the death of Queen Elizabeth to the 1970’s. Special emphasis will be placed on Catholic emancipation, the famine, The Home Rule Movement and Ulster in the 20th century.

HIST-475 WORLD WAR II (3 Credits)
Analyzes the causes, the diplomatic and military history, and resolution of the Second World War. This course also examines the causes of the Cold War, the relationship between diplomacy and the origins of such a war, and the global impact of this conflict.

HIST-491 ADVANCED HISTORY READING PROGRAM (3 Credits)
This required course is designed for senior History majors. In a seminar format, a small group of students will meet once a week to discuss an assigned book. This intensive reading course will serve as a capstone to a student’s college career. Each student not only will be required to read and analyze several books, but also explain and defend his or her interpretations. The weekly readings will encourage students to synthesize knowledge and employ skills gained in previous semesters.

Restrictions: RG.HIST

HIST-491H ADV HIST READING PROGRAM (3 Credits)
This required course is designed for senior History majors. In a seminar format, a small group of students will meet once a week to discuss an assigned book. This intensive reading course will serve as a capstone to a student’s college career. Each student not only will be required to read and analyze several books, but also explain and defend his or her interpretations. The weekly readings will encourage students to synthesize knowledge and employ skills gained in previous semesters. Honors section for approved Honors students only.

Restrictions: RG.HON

HIST-492 ADVANCED HIST READING PROGRAM (3 Credits)
This required course is designed for senior History majors. In a seminar format, a small group of students will meet once a week to discuss an assigned book. This intensive reading course will serve as a capstone to a student’s college career. Each student not only will be required to read and analyze several books, but also explain and defend his or her interpretations. The weekly readings will encourage students to synthesize knowledge and employ skills gained in previous semesters.

HIST-492A VIETNAM (AHRP) (3 Credits)
HIST-492B BRITISH IMPERIALISM (AHRP) (3 Credits)
HIST-492C US PRESIDENCY (AHRP) (3 Credits)
HIST-492D RACE TO THE MOON (3 Credits)
HIST-494 HISTORICAL TOPICS (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494E WAR & CIVIL LIBERTIES (3 Credits)
HIST-494EH SP TOP: ENVIRONMENTAL HISTORY (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494F SP TOP: HISTORY THRU GAMING (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494G HIST TOP: US IMMIGRATION/ETHN (3 Credits)
Immigration, one of the most powerful and enduring symbols of the United States, remains a contentious issue in contemporary America. This course will investigate immigration patterns, immigration policy, and immigrants’ lives from the end of the 19th century to the present day to understand the historical roots of today’s immigration issues, including Arizona’s new law against undocumented immigrants; the ongoing political debates about comprehensive immigration reform and border security; the massive immigrant-rights marches of the last few years; and the hopes and fears of a changing America.

Restrictions: RG.HON

HIST-494H Historical Topics - Honors (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

Restrictions: RG.HON

HIST-494J HIST TOP: CITIZENSHIP/IDENTITY (3 Credits)
HIST-494K SP TOP: THE GREAT DEPRESSION (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494L SP TOP: THE HOLOCAUST (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494M SP TOP: PIRACY IN THE AMERICAS 1500-1728 (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494N SP TOP: NATIVE AMERICAN HISTORY (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494P SP TOP: CYBERWARFARE (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494Q SP TOP: WORLD CINEMA (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494R SP TOP: HISTORY THROUGH GAMING (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.
HIST-495 INTERNSHIP IN HISTORY (3 Credits)
Awarded to deserving junior and senior students. Each student will work for one semester for a scholarly journal, historical association, archival depository, or historical museum. The student will be responsible for a variety of tasks, including the preparation of materials intended for publication and the identification and cataloging of historical records and artifacts.

HIST-495A INTERNSHIP IN MUSEUM WORK (1-3 Credits)

HIST-495B INTERN. HISTORIC HOUSE MGMT (1-3 Credits)

HIST-495C INTERNSHIP IN LOCAL HISTORY (1-3 Credits)

HIST-495D INTERNSHIP IN ORAL HISTORY (1-3 Credits)

HIST-495E INTERN. IN CITY GOVERNMENT (3 Credits)

HIST-496 INDEPENDENT STUDY (3 Credits)
Under the guidance of a professor, a student will engage in an advanced project of reading or research.

HIST-496A ENGLAND, 1830-1918 (3 Credits)

HIST-496B IND ST: CONTEMPORARY JAPANESE TRANSNATIONALISMS (3 Credits)
Under the guidance of a professor, a student will engage in an advanced project of reading or research.

HIST-498 SENIOR RESEARCH PAPER (3-6 Credits)
The primary purpose of the senior research paper is to aid qualified senior history majors in developing the ability for independent study and research and in producing a thesis that is intelligently conceived, carefully researched, closely reasoned, properly documented, and clearly and effectively presented. An individual student will work under the guidance of a professor on an agreed-upon topic.

HIST-499 SENIOR RESEARCH PAPER (3-6 Credits)
The primary purpose of the senior research paper is to aid qualified senior history majors in developing the ability for independent study and research and in producing a thesis that is intelligently conceived, carefully researched, closely reasoned, properly documented, and clearly and effectively presented. An individual student will work under the guidance of a professor on an agreed-upon topic.

HIST-499B SP.TOP IN HISTORY-FIJI (3 Credits)
HONORS RESEARCH SEM. (HON)

HON-299 SPECIAL TOPICS (3 Credits)
Restrictions: RG.HON

HON-299A SP TOPIC: FREN LIT IN TRANSLATION (3 Credits)
Restrictions: RG.HON

HON-299B SP TOPIC: THE INKLINGS C.S. Lewis, J.R.R. Tolkien, Charles Will (3 Credits)
From around 1934 to 1949 an informal group of friends met weekly in Oxford, England mainly to discuss literature and sometimes to read to each other from various works that they themselves were writing. The group was called 'The Inklings' and its most prominent members were Lewis, Tolkien and Williams. In the writings of these three we find a great diversity both in subject matter and approach. Lewis has become famous for his children's stories (The Chronicles of Narnia), his science fiction novels (The Ransom Trilogy) and his approach to Christian apologetics (Mere Christianity), but by profession he was an Oxford professor whose field was medieval and renaissance English literature. Likewise Tolkien was an Oxford professor whose field was early English language & literature but who gained enormous popularity through his fantasy works (The Hobbit and The Lord of the Rings). Williams worked as an editor at Oxford University Press whose main claim to literary fame rests on his series of poems based on the Arthurian legends, & for a series of novels which have been termed 'metaphysical thrillers'.
Restrictions: RG.HON

HON-299C SPECIAL TOPIC: SCIENCE ETHICS & SOCIETY (3 Credits)
Restrictions: RG.HON

HON-299D Sp Top: Sustainable Systems (3 Credits)
Restrictions: RG.HON

HON-299E Sp Top: Psychopathology/Cinema (3 Credits)
Restrictions: RG.HON

HON-299F Sp Top: Study/Life of Francis of Assisi (3 Credits)
Restrictions: RG.HON

HON-299G Sp Top: Span Nobel Prize in Translation (3 Credits)
Restrictions: RG.HON

HON-299H LOGICS (3 Credits)

HON-299I SP TOP: FRIENDSHIP (3 Credits)

HON-299J SP TOP: INTERDISCIPLINARY METHODS (3 Credits)

HON-299K SP TOP: PREGNANCY IMPORTANT INFORMATION FOR ALL FUTURE PARENTS (3 Credits)
This course introduces students to human developmental processes and the bio/psycho/social nature of pregnancy. The study of pregnancy includes psychological and biological systems, individual cognitive and affective processes and sociocultural models and influences. If you plan on having children, you need to take this course!
Restrictions: RG.HON

HON-299L SP TOP: IND STY IN CINEMA FOR ALL FUTURE PARENTS (3 Credits)
Restrictions: RG.HON

HON-299M SP TOP: WHAT IS REAL? (3 Credits)
Restrictions: RG.HON

HON-299N SP TOP: FANTASY, FAIRYTALES & MYTHS (3 Credits)
Restrictions: RG.HON

HON-299O SP TOP: ADV ST CATHOLIC FICTION (3 Credits)
Restrictions: RG.HON

HON-299P Sp Top: Decision 2016 the Presidential ELECTION (3 Credits)
Restrictions: RG.HON

HON-299Q SP TOP: RELIGION & RACE (3 Credits)

HON-299R SP TOP: RELIGION & ART (3 Credits)

HON-299S SP TOP: CONTEMPORARY SOCIAL ISSUES (3 Credits)
Restrictions: RG.HON

HON-299T SP TOP: COUNTERFACTUAL THINKING (3 Credits)
Contemplating alternative realities plays an important part in human thought. This ranges from considering how a sequence of events would have played out if one event had not taken place to speculating on the nature of universes having physical laws different from our own. Counterfactual thinking and thought experiments have been used in disciplines such as philosophy, psychology, literature, history, political science, and the natural sciences. In this course, we will review the uses of counterfactual thinking in some of these fields, and then engage in extensive counterfactual analysis in a seminar discussion setting. Students will critique counterfactual scenarios presented in fiction and non-fiction works, and will creatively explore a variety of counterfactual scenarios posed to them and of their own invention. Each student will keep a record of their exploration of these scenarios, and will contribute to seminar discussions of them.
Restrictions: RG.HON

HON-299U SP TOP: DECISION 2018: EXPLORATION OF CAMPAIGN FOR NYS GOVERNOR (3 Credits)
Restrictions: RG.HON

HON-299W SP TOP: ART & CULTURE IN THE AGE OF EXTREMES (3 Credits)
Restrictions: RG.HON

HON-299X SP TOP: THE HUMAN BODY IN SCIENCE, THEOLOGY & HUMAN NYS GOVERNOR (3 Credits)
Restrictions: RG.HON

HON-299Y SP TOP: STUDY/LIFE OF FRANCIS OF ASSISI (3 Credits)
Restrictions: RG.HON

HON-299Z SP TOP: THE HUMAN BODY IN SCIENCE, THEOLOGY & HUMAN CULTURE (3 Credits)
Restrictions: RG.HON

HON-299A HONORS EXPERIENCE (0 Credits)
Course will be used to track the Honors Experience requirement for Honors Students.
Restrictions: RG.HON

HON-401 ADVANCED HONORS SEMINAR (3 Credits)
The Advanced Honors Seminar is offered annually in the spring semester. It is designed to challenge upper-level students (usually juniors) from a variety of majors to work together on critical contemporary issues. More recent topics have included: current cases before the United States Supreme Court; topics in environmental ethics; issues in American medical care; an interdisciplinary examination of the Holocaust; contemporary challenges to the idea of the University; literary expressions of generational identity; the Bible in American politics; and contemporary problems in American democracy. Future topics will change, but the challenges and purposes will remain.
Restrictions: RG.HON
HON-498 HP -- HONORS PROJECT (1 Credit)
The Honors Project is a year-long endeavor in which an honors student works intensively on the definition and solution of a scholarly problem, or on the development of a creative work. The honors student's work is guided by an advisor, and submitted to two readers for approval. Upon completion, it is publicly presented to interested faculty, students and guests. A copy of the project is bound and placed in the permanent collection of the Friedsam Library. An honors project is usually pursued in the student's senior year and is required of all honors degree graduates.

HON-499 HONORS PROJECT (2 Credits)
The Honors Project is a year-long endeavor in which an honors student works intensively on the definition and solution of a scholarly problem, or on the development of a creative work. The honors student's work is guided by an advisor. Upon completion, it is publicly presented to interested faculty, students and guests. A copy of the project is bound and placed in the permanent collection of the Friedsam Library. An honors project is usually pursued in the student's senior year and is required of all honors degree graduates.
INDIVIDUALIZED MAJOR (IMP)

IMP-201 EXPLORING INTERDISCIPLINARITY ACROSS SBU (3 Credits)
An introduction to various disciplines and to interdisciplinarity and its applications. Each week, a different faculty member will introduce an interdisciplinary research topic. The disciplines covered range from accounting, biology, business, education, history, journalism, marketing, math, philosophy, psychology, robotics, and sociology to theology. One course coordinator will guide students through the class and help them to connect the various disciplines and help them in writing interdisciplinary papers on their own.

IMP-401 IM SENIOR CAPSTONE PROJECT (3 Credits)
An independent study that will result in a capstone project that includes some reflection on the major experience as a whole.
INFORMATION TECHNOLOGY (IT)

IT-103 INTRO TO DOCUMENT CREATION (1 Credit)
Using word processing software, students will produce written documents, including letters, memos, multi-page reports, and newsletters. Note: IT 103, 104, and 105 may not be taken for credit after any other 3-credit computer course.
Corequisite(s): IT-104 OR IT-105 COMPLETED

IT-104 INTRO TO SPREADSHEETS (1 Credit)
Students will create spreadsheets to facilitate decision-making and illustrate numeric data using relative and absolute addresses, formulas, and system functions. Students will create tables to graphically present information in a spreadsheet and will create integrated documents using word processing and spreadsheet applications. Prerequisite: IT 103 or demonstration of proficiency. Note: IT 103, 104, and 105 may not be taken for credit after any other 3-credit computer course.
Corequisite(s): IT-103 OR IT-105 COMPLETED

IT-105 INTRO TO DATABASES (1 Credit)
Students will build and query a database and create forms and reports from database tables. Students will create integrated documents using word processing and database applications. Prerequisites: IT 103 and IT 104 or demonstration of proficiency. Note: IT 103, 104 and 105 may not be taken for credit after any other 3-credit computer course.
Corequisite(s): IT-103 AND IT-104

IT-120 INTRO TO COMPUTERS (3 Credits)
An introduction to the components and functions of a computer system, the Internet, and applications software. Students become familiar with the Internet and the campus e-mail program. Word processing, Web creation, spreadsheet, database, and presentation applications are used to provide practical experience using a personal computer. Note: IT 120 includes material from IT 103, 104, and 105. Students having completed one of those courses should not enroll in IT 120. Likewise, students who have completed a computer science course numbered 131 or higher should not enroll in IT 120.
Restrictions: RG.BUS

IT-123 USER CENTERED WEB SITE DESIGN (3 Credits)
An introduction to the creation of effective web pages and sites. Topics related to effective site creation include color, typography, layout and multimedia. Students will create web pages directly by producing html and css documents using a personal computer.

IT-192 IND STUDY IN INFORMATION TECH (1-3 Credits)
Independent study or project in some area of introductory computer applications or computer science faculty.

IT-220 DATA CRUNCHING IN BUSINESS (3 Credits)
An introduction to data manipulation in business, Microsoft EXCEL or an equivalent spreadsheet program, its application to business and accounting problems, and an introduction to data analysis and Pivot tables.

IT-280 SPECIAL TOPICS IN IT (1-3 Credits)
An intensive study of how information technology can be used in various fields. Students will be exposed to applications in both a theoretical and hands-on manner. Although there is no separate laboratory section, students will complete substantial amounts of their work using software applications.

IT-280A SP TOP: EXCEL IN BUSINESS (3 Credits)
An intensive study of how information technology can be used in various fields. Students will be exposed to applications in both a theoretical and hands-on manner. Although there is no separate laboratory section, students will complete substantial amounts of their work using software applications.
Restrictions: RG.BUS

IT-280B SPECIAL TOPICS IN IT: APP DEVELOPMENT (1-3 Credits)
An intensive study of how information technology can be used in various fields. Students will be exposed to applications in both a theoretical and hands-on manner. Although there is no separate laboratory section, students will complete substantial amounts of their work using software applications.
INTERNATIONAL STUDIES (IS)

IS-101 INTRO TO INTERNATIONAL STUDIES (3 Credits)
This course is centered on the theme of ‘crossing borders.’ The main focus is on the U.S.-Mexican and the U.S.-Canadian borders, but comparative material will also be discussed on the immigrant experience in Western Europe, where a parallel anti-immigrant backlash is occurring. This will provide a contrast of how different ‘Western’ nations (U.S., Canada, various European cases most likely including France, the Netherlands, and Spain or Italy) are dealing with an influx of ‘non-Western’ immigrants. Throughout the semester we will consider the concept of ‘borders’ both geographical/political and psychological. In our increasingly globalized world, how has the significance of borders changed? We will explore questions of identity, citizenship, culture/culture wars, ‘the other,’ community and difference.

IS-101C INTRO TO INTERNATIONAL STUDIES (3 Credits)
This course is centered on the theme of ‘crossing borders.’ The main focus is on the U.S.-Mexican and the U.S.-Canadian borders, but comparative material will also be discussed on the immigrant experience in Western Europe, where a parallel anti-immigrant backlash is occurring. This will provide a contrast of how different ‘Western’ nations (U.S., Canada, various European cases most likely including France, the Netherlands, and Spain or Italy) are dealing with an influx of ‘non-Western’ immigrants. Throughout the semester we will consider the concept of ‘borders’ both geographical/political and psychological. In our increasingly globalized world, how has the significance of borders changed? We will explore questions of identity, citizenship, culture/culture wars, ‘the other,’ community and difference.

IS-102 GLOBAL CATHOLICISM (3 Credits)
This course explores the different forms that the Catholic Church has taken as it has adapted to diverse cultures around the world and attempts to unpack the idea of ‘catholicity’ for our contemporary time. It introduces the students to a variety of issues facing Catholic Christians that arise in the contemporary context of globalization. Besides looking at theological and religious expressions and adaptations of Catholic beliefs, attention will be given to the socio-political global scene and how Catholicism approaches the modern day reality of inter-dependency, respect and need of accountability between cultures. Contemporary sensitivity to the categories of culture, identity and location is responsible for a vital creativity evident in contributions, challenges and critiques by various current catholic thinkers and theologians. Special emphasis will be placed on the Franciscan experience and response to globalization on social justice issues relying on available material from Franciscans International, the non-governmental organization (NGO) with general consultative status at the United Nations, and material from the Vatican Secretariat of State and other Pontifical departments which deal with issues of international concern.
Prerequisite(s): Take CLAR-207

IS-201 INTERNATIONAL STUDIES & GLOBALIZATION (3 Credits)
This course is designed to give international studies majors and minors and other interested students an overview of the major themes, concepts, and issues of the interdisciplinary field of international studies. Students will become familiar with the disciplines that make up international studies and their respective research methods as they learn about the historical, economic, political, legal, and cultural elements of globalization. Some of the themes that students will explore in this course include poverty and economic development, international security, human rights, and the future of the nation state in a global perspective.

IS-202 WORLD REGIONAL GEOGRAPHY (3 Credits)
Students will study and evaluate interrelationships of location, climate, landforms, and natural resources with the cultural, economic, and political systems of our global regions. Other topics include population trends, impacts of technology and culture upon the natural environment and globalization as they relate to regions of the world: Europe, Russia, Middle East, Asia, Africa, and the Americas.

IS-222 MEDIA & SOCIAL CHANGE (3 Credits)
This course will emphasize ways in which a variety of social actors (everyday citizens, activist groups, political parties, and other social institutions) form a public sphere through various communication mediums. We will examine how the use of these mediums is double-edged in that they can be used in an attempt to either maintain political power, or to actively pursue social change.

IS-300 QUALITATIVE METHODS FOR A GLOBALIZING WORLD (3 Credits)
In this course International Studies and Political Science students will learn now to develop a research question and choose the appropriate methods and evidence to answer the question and develop an argument. The basics of case study research will be presented along with methods such as process tracing and context analysis. Students will learn how to conduct interviews and find other primary source material from sources such as the United Nations website, the World Values Survey, and social media. Strategies for effectively organizing and writing a major research paper will be presented.

IS-350 WORLD CINEMA (3 Credits)
This course explores the cinematic production on a global scale. The chosen films will reflect the unique socio-cultural characteristics distinguishing the countries under analysis. Students will analyze movies to understand how visual images provide a direct impression of people living in different environments Students will acquire distinct nation and subnational perceptions of global issues including, among others, the challenges posed by

IS-491 Senior Thesis (3 Credits)
The primary purpose of this paper is to permit the student to write a significant research paper that will demonstrate her/his abilities to do independent work and research on the region of the world that they have decided to concentrate. The thesis will allow the student to demonstrate how successfully they have integrated the material from their courses. The thesis should be carefully researched, logical, properly documented, make clear and reasonable arguments and be well-written.

IS-494 SP STUDIES ON INT’L TOPICS (3 Credits)
When deemed appropriate a class on a special international topic will be offered to all students. Such a course can replace any required or elective course in IS, except 102, 104, and 491. Approval must be granted by the Director of International Studies.

IS-494A SP TOPI MINORITIES IN THE MIDDLE EAST (3 Credits)
When deemed appropriate a class on a special international topic will be offered to all students. Such a course can replace any required or elective course in IS, except 102, 104, and 491. Approval must be granted by the Director of International Studies.

IS-494B SP ST: SPORTS & GLOBALIZATION (3 Credits)
When deemed appropriate a class on a special international topic will be offered to all students. Such a course can replace any required or elective course in IS, except 102, 104, and 491. Approval must be granted by the Director of International Studies.
IS-494C SP TOP. COUNTRIES & CULTURES OF THE ARAB WORLD (3 Credits)
This interdisciplinary course, taught in English, examines selected countries of the Arab World and the diverse cultures they comprise. Topics to be addressed include geography, the environment, society, cultural patrimony, the arts and other issues of contemporary significance.

IS-494D SP TOP. POLICING & DEMOCRACY (3 Credits)

IS-496 INDEPENDENT STUDY (1-3 Credits)
Under the guidance of a professor a student will engage in an advanced project or reading or research. Approval by the director of International Studies must be granted. Such course can replace any required or elective course in IS, except IS 102, 104 and 491.
ITALIAN (ITAL)

ITAL-101 ELEM. ITALIAN I (3 Credits)
The fundamentals of Italian grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

ITAL-102 ELEM. ITALIAN II (3 Credits)
The fundamentals of Italian grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.
Prerequisite(s): TAKE ITAL-101

ITAL-201 INTERMED ITALIAN I (3 Credits)
A systematic review of Italian grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.
Prerequisite(s): Take ITAL-102

ITAL-202 INTERMED ITALIAN II (3 Credits)
A systematic review of Italian grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.
Prerequisite(s): TAKE ITAL-201

ITAL-301 COMPOSITION & CONVERSATION (3 Credits)
Advanced language study stressing conversation and composition through the analysis of current issues in modern Italian society. This course will help students develop competence in the Italian language and culture.
Prerequisite(s): Take ITAL-202

ITAL-302 COMPOSITION AND CONVERSATION (3 Credits)
Advanced language study stressing grammar and composition through the analysis of literary works and films. This course will help students develop competence in the Italian language and culture.
Prerequisite(s): TAKE ITAL-301

ITAL-335 SPECIAL TOPICS IN ITALIAN: LANGUAGE (1-6 Credits)
Directed reading and research in topics dealing with Italian language. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): TAKE ITAL-302

ITAL-335P ELEM/INTERM ITALIAN-PERUGIA (3 Credits)

ITAL-370 SURVEY OF ITALIAN CINEMA (3 Credits)
Offered in English. This course is a survey of the development of film production in Italy from the beginning of the 20th century to the present. Students will be exposed to the particularity of Italian cinema, with its role of social critique exposing cultural, problematic and political corruption.

ITAL-435 SP TOP IN ITALIAN: LITERATURE & CULTURE (1-6 Credits)
Directed readings and research in topics dealing with Italian cultures. 1-6 credits. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): TAKE ITAL-302
JOURNALISM/MASS COMM (JMC)

JMC-ELEC JMC ELECTIVE (4 Credits)

JMC-101 COMMUNICATION TODAY (3 Credits)
An overview of the rapidly changing fields of journalism and strategic communication, their history and their relationship to society. Areas covered include newspapers, magazines, broadcasting, public relations, advertising and how those areas and others are impacted by the move to digital media. The beginning course for all Journalism/Mass Communication majors and Strategic Communication and Digital Media majors and open as an elective to all other students.

JMC-110 PROFESSIONAL WRITING I: STYLE (3 Credits)
‘A writer is a person for whom writing is more difficult than it is for other people,’ said Thomas Mann. That’s because a writer appreciates just how important the act of writing is. In JMC 110, you will learn to think like a writer. Why does writing matter? What does that really mean? You will look at the relationship between art and craft, examine the importance of audience, and begin a conscious exploration of your own writing process. You will also see why mechanics play a key role in articulating your ideas clearly.

JMC-111 PROFESSIONAL WRITING II: CRAFT (3 Credits)
Prerequisite(s): TAKE JMC-110

JMC-140 THE DIGITAL WORLD (1 Credit)
A fundamental examination of the skills needed to succeed in the world of communications technology, from shooting and editing video using large camcorders or smart phones, the principles of audio and lighting, writing for all media, and the use of Internet-based resources for the latest Communications.

JMC-201 REPORTER’S NARRATIVE: STYLE (3 Credits)
The basic course in principles and practices of writing and reporting for print and digital news platforms. Stresses leads, story organization, accuracy, objectivity and developing a news sense.
Prerequisite(s): Take JMC-111

JMC-202 REPORTER’S NARRATIVE: CRAFT (3 Credits)
Writing and reporting in-depth for all news platforms. Covers investigative research and interpretive journalism. Assignments stress interviewing and investigative techniques.
Prerequisite(s): TAKE JMC-201

JMC-205 MEDIA EFFECTS (3 Credits)
This course will help students understand media messages and their social, cultural, interpersonal, Psychological and political effects.
Prerequisite(s): TAKE JMC-101

JMC-241 INTRODUCTION TO RADIO (3 Credits)
Intro to Radio will look at the operation of a typical radio station, from programming, sales, and promotions to the technology that makes it all happen. The course will also look at the history of radio with a special focus on current trends in the business, such as Internet radio, ownership consolidation, syndication, satellite programming, and regulatory changes.

JMC-245 VIDEO PRODUCTION (3 Credits)
Fundamentals of using visuals to tell news and feature stories. Concentrations will be on learning how to sequence a story visually with still pictures, then with field cameras and videotape. In addition, students will learn how to edit video shot in the field into finished stories.
Restrictions: RG.SC.JMC

JMC-251 INTRO TO GRAPHIC DESIGN (3 Credits)
Students will be introduced to techniques and processes of creating artwork and graphic design on the computer. Students will get an overview of electronic image manipulation, illustration, and page layout and design.

JMC-261 PHOTOJOURNALISM I (3 Credits)
A basic course emphasizing photography from the journalistic perspective. Fundamentals of camera operation, exposure, lighting and composition. Introduction to Photoshop and the digital imaging process.

JMC-262 PHOTOJOURNALISM II (3 Credits)
This course builds upon the skills learned in JMC-261. Principles and practices of journalistic photography, news, sports and feature photography. Picture story and photo essay. Combining words and pictures. Students are encouraged to shoot for on-and-off campus publications.
Prerequisite(s): TAKE JMC-261
Restrictions: RGC.105

JMC-263 SPORTS PHOTOJOURNALISM (3 Credits)
Advanced photography course emphasizing sports journalistic perspective. Access to Division One athletics and athletes on the St Bonaventure campus. Covering everything from studio season promo shoots, behind the scenes, peak action, and arena lighting and access. Adobe Lightroom, Photoshop and Photo Mechanic skills will be used to meet all deadlines.

JMC-300 MEDIA LAW AND ETHICS (3 Credits)
The intersection of the law and communications – both the traditional media and legal areas relating to advertising. Major decisions of the U.S. Supreme Court and other courts relating to issues including the Internet, prior restraint, privacy, libel, copyright and broadcasting are considered. Ethical issues involved in the communications fields are also discussed.

JMC-301 ADV. EDITING (3 Credits)
Centers on the practical experience of running a copy desk and producing professional-quality newspaper pages. Refinement and speed is added to existing skills. The course also covers picture editing, typography, design and those computer skills required to oversee production of pages and sections. Students aim for the finished product and learning is by doing.
Prerequisite: JMC-202. 3 credits.
Corequisite(s): TAKE JMC-202

JMC-305 COMPUTER-ASSISTED REPORTING (3 Credits)
Searching, finding, writing. Traditional and online methods that underpin scholarships, journalism and related areas: questionnaires, content analysis, literature reviews, Web searches, spreadsheets, databases, listserves, newspapers and so on. Legal and ethical issues examined. Stress on writing practice.
Prerequisite(s): TAKE JMC-101

JMC-310 FEATURE WRITING (3 Credits)
The writing of newspaper features and magazine articles. A course objective is to write for publication.
Prerequisite(s): TAKE JMC-202
JMC-312 SPORTS WRITING (3 Credits)
The writing and reporting of sports and athletics for all mass media in both the educational and commercial sectors. Emphasis is on writing play-by-play and human interest features, as well as in-depth reporting. An analysis of the principles and practices of sports information is emphasized.
Corequisite(s): TAKE JMC-202

JMC-315 PERSUASIVE WRITING/RHETORIC (3 Credits)
An upper-level writing course for students interested in public relations. Concentration on the finer points of word-smithing in the context of a variety of public relations functions such as promotional copywriting, speechwriting, media relations and quote-crafting. A scrutiny of word choice, phrasing and organization to create maximum deliberate effect. Includes an ethical component to understand how rhetorical choices can lead to intentional and unintentional consequences.
Prerequisite(s): TAKE JMC-202

JMC-318 CREATIVE NONFICTION (3 Credits)
True stories told well-that's the premise behind creative nonfiction, a genre that spans a broad spectrum from literary journalism to memoir. Springing from a long tradition of writing that emphasizes verisimilitude, creative nonfiction employs the literary conventions of fiction and poetry to explore the truth in ways beyond the mere transmission of facts and information. Students will read examples of creative nonfiction to get a sense of the genre’s possibilities while also writing creative nonfiction projects of their own.
Restrictions: RG.24+

JMC-319 WRITING SPACES AND PLACES (3 Credits)
in works of creative non-fiction, place is often background, context, and backdrop for the action. Through place, writers explore the world around them literally and metaphorically, creating profound connections between themselves and the spaces they occupy--as well as connections between readers and those spaces. While looking at effective examples of writers who write about space and place, students will the opportunity to explore the world around them through writing of their own.

JMC-322 SPORTS COMMUNICATION (3 Credits)
(Majors Only) Examines the techniques and strategies used in the communication/public relations field for college and professional sports and how they shape the reporting of sports news. Course will cover writing, design, and layout for press releases, publications and Web sites. Includes analysis of sports public relations as a career field.

JMC-325 MEDIA & ENVIRONMENTAL AFFAIRS (3 Credits)
Media in environmental affairs will look at the way media have been used in environmental public relations campaigns and in environmental advocacy. The course will also examine how research is conducted, publics are decided, and campaigns are developed and evaluated. This class will also emphasize case studies of environmental campaigns. New technologies, worldwide ecotourism, and current issues will be discussed.

JMC-340 BROADCAST REPORTING (3 Credits)
Fundamentals of broadcast news and sports writing and reporting. Areas covered will include learning how to write in broadcast style, writing into and out of sounds bites, selection of bites, use of natural sound throughout stories, writing to visuals, standups and learning how to sounds professional and credible on the air.
Prerequisite(s): TAKE JMC-245

JMC-341 SPORTS TV PRODUCTION I (3 Credits)
This course will help students develop the skills involved in the production of live sports telecasts, using the university's broadcast truck. This course will allow student to specifically learn to work on-air, as well as produce and direct game telecasts, work as video camermen, audio operators, technical directors, and graphics operators/producers. Because students will actually produce content for air, class times and dates in the later portion of the semester may be changed to fit the events being covered. Students are apprised that they will need to plan for this when a schedule of events that can be televised is available.

JMC-342 SPORTS TV PRODUCTION II (3 Credits)
This course will help students develop the skills telecasts, using the university's broadcast truck. This course will allow students to specifically learn to work on-air, as well as produce and direct game telecasts, work as video camermen, audio operators, technical directors, and graphics operators/producers. Because students will actually produce content for air, class times and dates in the later portion of the semester may be changed to fit the events being covered. Students are apprised that they will need to plan for this when a schedule of events that can be televised is available. This is a continuation of JMC 341.
Prerequisite(s): JMC-341

JMC-343 FIELD PRODUCTION (3 Credits)
Students will learn how to coordinate productions outside of the studio with proper camera set-up, lighting and audio. We will look at the proper way to access a location, cut off background sound, color a camera properly, add ambient light and avoid disturbances. Students will also learn the methods a broadcast signal can be transmitted back to the control room for playback on the air.
Prerequisite(s): JMC-245

JMC-344 STUDIO PRODUCTION (3 Credits)
Students will learn to setup and properly shoot in a studio setting with proper lighting, a crisp image and clear audio. There will be a high focus on communication from the director, producer, floor manager, camera operator and editor. Each step of the way plays a significant role in a studio production. Students will also explore the Chroma Key and how this can enhance a production, an interview, a newscast or a sporting event.
Prerequisite(s): JMC-245

JMC-345 ON-AIR ANNOUNCING (3 Credits)
This course offers instruction for improving on-air delivery for radio and television announcers.

JMC-348 MOBILE JOURNALISM (3 Credits)
Producing ethical, engaging, immediate and informative content for social media. This course will prepare students to produce news from the field for digital audiences. Students will share news in real-time on social media and digital platforms.
Prerequisite(s): Take JMC-340

JMC-349 PRODUCING BROADCAST NEWS (3 Credits)
Producing an informative newscast is more than stacking a rundown. Students will learn all of the processes involved in creating a well-rounded show based on story count, timing, use of graphics, live shots, live reports, great video, effective sound and much more.
Prerequisite(s): Take JMC-340
JMC-390 SEMIOTICS: SIGNS & SYMBOLS (3 Credits)
Semiotics is the study of signs. A sign is defined as anything that can stand for or represent something - therefore it can be a word, a symbol, a picture, a sound, a gesture, body language etc. Semiotics is therefore the study of making meaning (both 'encoding' and 'decoding') in its widest possible sense. Semiotics is fundamental to the process of communication and the production of meaning. In this course we will focus on the work of semioticians in the areas of advertising, photography, film, television, myth and sub-culture, and consider how semiotic concepts and methods can be used to analyze a variety of cultural products, from fashion to television news to advertising to other forms of communication. 
Prerequisite(s): Take JMC-101

JMC-399 COMMUNICATIONS RESEARCH METH (3 Credits)
This course provides an overview of mass communications research methods, including survey research, laboratory and field experiments, and content analysis.
Prerequisite(s): JMC-101

JMC-400 CASE STUDIES IN MEDIA ETHICS (3 Credits)
The course introduces students to ethical dilemmas faced by practitioners in the fields of journalism and mass communication. It will provide them with a basis for thought processes and analysis critical to finding solutions. Readings and case studies will be complemented by guest speakers who have been confronted with ethical questions.
Restrictions: RG.JMC

JMC-401 SP.STUDIES IN JOURN/MASS COMM (1-4 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.
Restrictions: RG.CJ/JS

JMC-401C SP Top: Intro to Filmmaking (3 Credits)
JMC-401CR SP TOP: COMMUNITY REPORTING (1-3 Credits)
JMC-401D SP.STUDIES IN J/MC: EVENTS MANAGEMENT (3 Credits)
JMC-401G SP.STUDIES: DIGITAL MEDIA (3 Credits)
Prerequisite(s): TAKE JMC-102
JMC-401I SP TOP: IN THE GALLERY (3 Credits)
Restrictions: RG.56

JMC-401J SP TOP:BLDG-BRAND AS-BLOGGER (1-3 Credits)
Prerequisite(s): JMC-202
Restrictions: RG.JMC

JMC-401K SP TOP: NEWS PRODUCING (3 Credits)
JMC-401L SP TOPIC: ADVANCED FILMMAKING (3 Credits)
Prerequisite(s): TAKE JMC-401C
JMC-401M SP Top: Society & Digital Life (3 Credits)
JMC-401N SP Top: Digital World (3 Credits)
JMC-401O SP: Top: Copywriting (3 Credits)
JMC-401P SP ST: NEWS 21 VOTING RIGHTS (1-4 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401Q SP TOP: THE JOURNALISTS' WORKSHOP (6 Credits)
JMC-401R SP TOP: ADVANCED CREATIVE NON-FICTION (3 Credits)
JMC-401S SP TOP: BUILDING A BRAND AS A BLOGGER (3 Credits)
JMC-401T SP TOP: INTRO TO GRAPHIC DESIGN (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401U SP TOP: TV NEWS GRAPHIC CREATION (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401X SP ST: NEWS 21 (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401Y SP TOP: PHOTOGRAPHIC DESIGN (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401Z SP TOP: PHOTOGRAPHIC DESIGN (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-411 WRITING FOR ADVOCACY (3 Credits)
The intent is to familiarize students with the techniques of fact-finding, interviewing and writing necessary to produce editorials, columns and reviews for the press.
Restrictions: RG.41

JMC-412 SPORTS COMMENTARY & ANALYSIS (3 Credits)
The course familiarizes students with the technique of fact-finding, interviewing and writing necessary to produce credible commentaries and analyses in the field of sports for various media. Online writing, including blogging, will be stressed. Techniques for promotion of students' work will be explored. Writing weekly is stressed. Publication is expected through students' blogs.
Prerequisite(s): Take JMC-312
JMC-413 WRITERS ON WRITING (3 Credits)
"[M]any of us...care about the language, in our and craft of telling stories on paper," says Stephen King in the introduction to his book On Writing. By writing about writing, writers like King offer insights into their creative processes that can give other writers insights into their own creative processes. Such works invite consideration of the question, What does it mean, really, to be a writer?
Restrictions: RGC.105

JMC-414 JOURNALISTS’ WORKSHOP I (3 Credits)
A hands-on community news reporting course that incorporates all reporting, writing, video and editing instruction taken by the time a student reaches junior class status. Class members will staff an online news site covering communities surrounding the university.
Prerequisite(s): TAKE JMC-202

JMC-415 JOURNALISTS’ WORKSHOP II (3 Credits)
A hands-on community news reporting course that incorporates all reporting, writing, video and editing instruction taken by the time a student reaches junior class status. Class members will staff an online news site covering communities surrounding the university.
Prerequisite(s): TAKE JMC-414

JMC-418 CREATIVE NONFICTION II (3 Credits)
Building on the work students have done in Creative Nonfiction I, students will look to further develop their 'truth-telling' skills. This course will focus on longer-form writing with a focus on memoir. Students will read examples of creative nonfiction to get a sense of the genre's possibilities while also writing creative nonfiction projects of their own.
Prerequisite(s): Take JMC-318

JMC-440 SEM. BROADCAST JOURNALISM I (3 Credits)
Advanced course in producing, writing, field reporting, anchoring and the production of a television newscast. Students will incorporate what they have learned in all broadcast journalism courses within the sequence. The vehicle used for students learning this advanced work will be in the form of a weekly TV newscast telecast on SBU-TV Channel 9.
Prerequisite(s): JMC-340

JMC-441 SEM. IN BROADCAST JOURNALISM II (3 Credits)
Advanced course in producing, writing, field reporting, anchoring and the production of a television newscast. Students will incorporate what they have learned in all broadcast journalism courses within the sequence. The vehicle used for students learning this advanced work will be in the form of a weekly TV newscast telecast on SBU-TV Channel 9. This course continues the work of JMC 440.
Prerequisite(s): JMC-340

JMC-442 POST PRODUCTION (3 Credits)
Students will take a deeper dive into video editing software. We will enhance their capabilities of building a finished product through the addition of several creative features. Students will learn to properly color grading video, effect edit, add in and splice music, effectively key vide and use graphics/animations in their work.
Prerequisite(s): Take JMC-245

JMC-443 TOPICS IN ADVANCED PRODUCTION (3 Credits)
An advanced course in video production that will build on lower-level production courses and offer the ability to specialize in specific production techniques. Topics will vary.
Prerequisite(s): Take JMC-245

JMC-445 DOCUMENTARY (3 Credits)
Students will demonstrate their ability to bring together multimedia journalist skills by producing a multimedia documentary project. Students must show a firm understanding of writing, reporting, visual storytelling and research to plan and produce, in small teams, a profound piece of longform video and digital journalism.
Prerequisite(s): Take JMC-202 & JMC-245

JMC-470 INTERNET AND THE LAW (3 Credits)
This class will look at the legal rules that apply to life online, including some background on how the Internet is governed and an in-depth look at several issues. The course is open to all majors.

JMC-471 BLOGGING FOR MEDIA PROFESSIONALS (3 Credits)
The course is designed to further professional development as a credible reporter, commentator, or analyst in online forums on topics or issues of creative or professional interest. Promotion of posts, ethical practice, inclusion of digital video and audio in posts will be considered. The roles and responsibilities of the blogger as publisher will be discussed. Majors only.
Prerequisite(s): Take JMC-202
Restrictions: RG.SC.JMC

JMC-480 JOURNALISM AS LITERATURE (3 Credits)
An exploration of the more artistic and creative aspect of nonfiction writing, mainly through an examination of newspaper and magazine reporting that has endured as literature in America. In addition, the techniques of masters of fiction who also excelled in nonfiction will be studied.

JMC-482 WOMEN, MINORITIES & MEDIA (3 Credits)
The course has two main themes: the history of women and minority journalists working in the U.S media from the colonial era to the present day and the portrayals by the media of these collective groups often left outside the mainstream. Films, guest speakers and primary source materials supplement the overview textbooks.

JMC-483 MEDIA & DEMOCRACY (3 Credits)
This course uses a seminar format to explore the external factors that impact the content and quality of news and the media's relationship with a healthy democracy. It examines conflicts between the media's responsibility to keep citizens informed and serve as a watchdog over powerful interests with news organizations' roles as profit-making businesses. The growth of the Internet and social networks and their impact on journalistic form and content also are explored.
Restrictions: RG.41+

JMC-484 J/MC IN THE CIVIL WAR (3 Credits)
A study of how journalists covered the events leading up to the war, how they covered the war itself and how North and South fought battles not only on the battlefield but also in the headlines. An examination of President Lincoln as reporters saw him and a study of his public relations battle for public opinion. Included will be a study of individuals who helped shape American journalism, such as Editor James Gordon Bennett and photographer Matthew Brady, and how the technology of telegraphs and steam engines changed the way journalists did their jobs.
Prerequisite: Juniors and seniors only. 3 credits. Offered every other fall
Restrictions: RGC.105
JMC-485 CIVIL RIGHTS MOVEMENT AND THE MEDIA (3 Credits)
It has been said that without the media, there would have been no Civil Rights Movement. This course will explore that theory and examine the powerful role the media played in shaping the events of the Civil Rights Movement. Media – both black and mainstream – coverage of key civil rights cases, such as the murder of Emmett Louis Till, will be analyzed, as well as the southern journalists who defended blacks in the 1950s and 1960s. The course will also cover assassination of Medgar Evers in 1963, the Freedom Rides of 1961, and the often untold story of how women and children helped shape the movement. This course will NOT be about Martin Luther King Jr. and Rosa Parks. Though they are seen as icons of the Civil Rights Movement, the movement was much more than these two people. 3 credits. Offered every other fall.

JMC-486 THE COMMUNICATIONS ENTREPRENEUR (3 Credits)
The course is designed to give basic familiarity with the multiple aspects of becoming an entrepreneur—to teach you how to utilize, efficiently and effectively, the services of those professionals to your own business advantage. All majors.

JMC-498 INTERNSHIP (3 Credits)
A practical on-the-job experience in which students are employed as interns by media organizations in an environment that enables them to supplement their formal and theoretical education in journalism mass communications. Internships are individually arranged and must be approved in advance by the JMC internship coordinator. Internships may be taken during the school year or during the summer months. JMC majors are required to complete 400 hours of internship in one or more organizations. Students are evaluated by the organization for which they worked, the completion of a written, descriptive journal, critique and evaluation of the internship(s), effective use of Career Services for completion of resume and cover letter and demonstrated awareness of portfolio content and presentation. Prerequisites: Off campus internships are available to JMC majors or JMC minors who successfully have completed their freshman year. On campus internships may be taken any time during the freshman, sophomore, junior or senior years. Internships are graded on the pass-fail system.

JMC-499 COMPREHENSIVE EXPERIENCE (2 Credits)
Students in the Journalism Program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select a position and 'apply' for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric. Students will either pass or fail. Students who fail will have until the end of the spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours be completed.

Prerequisite(s): Take JMC-410(1632)

JMC-499A COMPREHENSIVE EXPERIENCE (0 Credits)
Students in the Journalism Program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select a position and 'apply' for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric. Students will either pass or fail. Students who fail will have until the end of the spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours be completed.

Restrictions: RG.74+
LATIN (LAT)

LAT-101 ELEMENTARY LATIN (3 Credits)

LAT-102 ELEMENTARY LATIN II (3 Credits)
Prerequisite(s): Take LAT-101

LAT-201 INTRO. LAT. AUTHORS OF REPUBLIC (3 Credits)
Brief review of syntax. Lectures on the history of Latin literature of the Republic. Readings of selections from representative authors.
Prerequisite(s): Take LAT-102

LAT-202 INTRO. LAT. AUTHORS OF EMPIRE (3 Credits)
Continued review of syntax. Lectures on the history of Latin literature of the Empire. Reading of selections from representative authors.
Prerequisite(s): Take LAT-201

LAT-301 HORACE (3 Credits)
The Odes and Epodes. The development of Latin lyric.
Prerequisite(s): Take LAT-202

LAT-302 HORACE (3 Credits)
The Satires and Epistles. The Ars Poetica.
Prerequisite(s): LAT-301

LAT-303 ROMAN HISTORIANS: TACITUS (3 Credits)
Lectures on the life, works and style of Tacitus. Readings from the Annales or from the Agricola and Germania.
Prerequisite(s): Take LAT-202

LAT-304 ROMAN HISTORIANS: LIVY (3 Credits)
The characteristics of Augustan Prose. Selections from Books I, XXI and XXII.
Prerequisite(s): Take LAT-202

LAT-307 CICERO: ORATIONS (3 Credits)
Prerequisite(s): Take LAT-202

LAT-307E CICERO: PRO CAELIO (3 Credits)
Prerequisite(s): LAT-202

LAT-308 POETRY OF THE CICERONIAN AGE (3 Credits)
The Alexandrian movement and its effect upon Latin literature. Selections from the poems of Catullus and from the De Rerum Natura of Lucretius.
Prerequisite(s): Take LAT-202

LAT-310 POETRY OF THE EMPIRE (3 Credits)
Ovid. Selections from the Metamorphoses and elegiac poetry of Ovid.
Prerequisite(s): Take LAT-202 or by permission of the instructor

LAT-311 VIRGIL: AENEID (3 Credits)
The theme of the Aeneid, and its relation to earlier and later epic.
Readings from Book I, II, IV, VI.
Prerequisite(s): Take LAT-201

LAT-312 SPECIAL TOPICS IN LATIN (3 Credits)
A collaborative investigation, with a mentoring emphasis, into the language, thought, and style of Latin authors not otherwise included in the course catalogue (or in the traditional preparation of undergraduate students for graduate work) or of Latin authors that appear in the catalog but that will be approached in non-traditional ways. The matter of the course will depend on the on-going research interests of the instructor, be dealt with in a seminar format, and result ideally in work publishable in some form.
Prerequisite(s): Take LAT-202

LAT-312A SP TOP. PLINY THE YOUNGER (3 Credits)
A collaborative investigation, with a mentoring emphasis, into the language, thought, and style of Latin authors not otherwise included in the course catalogue (or in the traditional preparation of undergraduate students for graduate work) or of Latin authors that appear in the catalog but that will be approached in non-traditional ways. The matter of the course will depend on the on-going research interests of the instructor, be dealt with in a seminar format, and result ideally in work publishable in some form.
Prerequisite(s): Take LAT-202

LAT-312B SP TOP. PETRONIUS (3 Credits)
A collaborative investigation, with a mentoring emphasis, into the language, thought, and style of Latin authors not otherwise included in the course catalogue (or in the traditional preparation of undergraduate students for graduate work) or of Latin authors that appear in the catalog but that will be approached in non-traditional ways. The matter of the course will depend on the on-going research interests of the instructor, be dealt with in a seminar format, and result ideally in work publishable in some form.

LAT-312D SP TOP. JULIUS CAESAR (3 Credits)
A collaborative investigation, with a mentoring emphasis, into the language, thought, and style of Latin authors not otherwise included in the course catalogue (or in the traditional preparation of undergraduate students for graduate work) or of Latin authors that appear in the catalog but that will be approached in non-traditional ways. The matter of the course will depend on the on-going research interests of the instructor, be dealt with in a seminar format, and result ideally in work publishable in some form.

LAT-312E SP TOP. PLAUTUS (3 Credits)
A collaborative investigation, with a mentoring emphasis, into the language, thought, and style of Latin authors not otherwise included in the course catalogue (or in the traditional preparation of undergraduate students for graduate work) or of Latin authors that appear in the catalog but that will be approached in non-traditional ways. The matter of the course will depend on the on-going research interests of the instructor, be dealt with in a seminar format, and result ideally in work publishable in some form.

LAT-405 ROMAN COMEDY (3 Credits)
The origin and development of Roman comedy. Reading from Plautus’ Captivi and Trinummus; Terence’s Phormio, at the discretion of the instructor, Hautontimorumenos.
Prerequisite(s): Take LAT-202
MGT-ELEC MANAGEMENT SCIENCE ELECTIVE (3 Credits)

MGT-301 MGMT & ORGANIZA.BEHAVIOR (3 Credits)
An investigation of the major functions of management (planning, organizing, coordinating, and controlling). An in-depth analysis of concepts and theories from the behavioral sciences. Particular attention is given to theories of motivation, organizational structure and behavior, management development, group dynamics, models of authority and the management of changing organizations and how they relate to modern managerial techniques.

MGT-306 PRODUCTION OPERATION MGMT (3 Credits)
A descriptive and analytical approach to the study of production processes. Topics discussed include forecasting, inventory planning, aggregate planning and scheduling, plant layout, quality control, methods analysis and work measurements.
Prerequisite(s): Take QMX-212

MGT-306H PRODUCTION MANAGEMENT (HONORS) (3 Credits)
Restrictions: RG.HON

MGT-310 INTERNATIONAL MANAGEMENT (3 Credits)
An in-depth analysis of the concepts that involve the operations of multinational corporations (MNCs) and foreign corporations and their effect on international business.
Prerequisite(s): Take MGT-301

MGT-322 INTRO TO BUSINESS ANALITICS (3 Credits)
An overview of quantitative techniques used in managerial decision analysis. Decision theory concepts are introduced with an emphasis on descriptive analytics and visualization techniques.
Prerequisite(s): Take QMX-212

MGT-324 LABOR RELATIONS (3 Credits)
A historical and analytical coverage of the relationship between organized labor and management. Topics discussed include an investigation of organized labor as a political group and as a party in the collective bargaining process.
Prerequisite(s): Take MGT-301

MGT-329 INTRO TO SPORTS MANAGEMENT (3 Credits)
Study of topics currently defining the sports industry including quality and continuous improvement, teamwork, diversity, ethics and social responsibility, globalization, information technology and change.
Restrictions: RG.BSM

MGT-330 INTRO TO ENTREPRENEURSHIP (3 Credits)
An introductory exploration into the creation of new ventures. Emphasis is placed on low-capital intensive startups—businesses that students can develop while still at university. Skill sets emphasized include basic social media and content management systems (web design). Recommended for sophomores or juniors. Must have permission of instructor.

MGT-401 PERSONNEL/HUMAN RESOURCE (3 Credits)
An investigation of systems designed to manage the human resource. Specific topics include job analysis and description, recruitment, selection and placement of personnel, management development and appraisal systems, incentive systems, and wage and salary administration.
Prerequisite(s): Take MGT-301

MGT-402 ADVANCED HUMAN RESOURCE MANAGEMENT (3 Credits)
This class is an expanded investigation of concepts in the human resource area with an emphasis on systems, structuring and implementation. Specific topics include: total compensation; strategic integration; performance management; and implementation tactics.

MGT-413 BUSINESS POLICY (3 Credits)
This is the School of Business capstone course and is taken during the student's senior year. Utilizing the case approach, the student will be required to apply concepts of management, accounting, marketing, economics, and finance to case analysis. The cases will cover a large number of companies engaged in widely diversified activities. Emphasis will be placed on policy formulation and top management decision-making.
Restrictions: RG.71+

MGT-416 SOCIAL ROLES IN ORGANIZATIONS (3 Credits)
This course will use the ethics and stakeholder management framework, emphasizing business's social and ethical responsibilities to both external and internal stakeholder groups. The ethics dimension is central to this course.
Prerequisite(s): Take MGT-301

MGT-419 ORGANIZATION DEVELOPMENT (3 Credits)
An examination of various theories, design, and practices related to developing work organizations as more effective entities. Topics discussed include organizational development models, stages of organizational growth and health, team building and conflict resolution.
Prerequisite(s): Take MGT-301

MGT-422 APPLIED MANAGEMENT SCIENCE (3 Credits)
A study of quantitative techniques applicable to management with a strong orientation towards application. The areas covered include simulation, forecasting, game theory, and advanced topics in mathematical programming, case studies and projects are employed to provide practical applications of the methods discussed.
Prerequisite(s): Take MSC-322 OR MSC-306

MGT-430 ENTREPRENEURSHIP PRACT. (3 Credits)
Practice in actual small business problem situations. Student teams will consult small businesses in the field and prepare formal recommendations for management consideration.
Prerequisite(s): Take MGT-301 MGT-330 ACCT-201 ACCT-202

MGT-431 ADV ENTREPRENEURSHIP PRACT. (3 Credits)
Advanced practice in actual small business problem situations. In cooperation with the Small Business Administration, student teams will consult with a small business in the field and prepare formal recommendations for management consideration.
Prerequisite(s): Take MGT-430
MGT-432 FAMILY BUSINESS MANAGEMENT (3 Credits)
From the small businesses started in basements to the Ford Motor Company, most firms in the world are founded, financed and controlled by families. Most students are—or will be—working in a family-controlled enterprise. Most companies have suppliers, customers and advisors (accountants, attorneys, etc.) whose firms are family-controlled. Therefore to have a thorough understanding of the business world, students should study family enterprise. This course addresses the special issues of family-controlled firms including succession, finance, governance, strategy, family dynamics, culture, philanthropy and family offices. The course will involve guest lecturers, case studies, field and research assignments and presentations regarding family enterprise. In owning, advising or working with family businesses, one must be aware of three separate dynamics: the business, the family and ownership. Each presents special professional challenges and at times, they may seem to be at cross-purposes; this is particularly relevant when examining family vs. non-family controlled firms.

MGT-446 INTN'L BUSINESS CHINA STUDIES (3 Credits)
This course introduces the student to China, its culture, history, and prospects for the future, all with a business focus. The course entails travel to Shanghai, Xi'an, and Beijing. Briefings are conducted by senior management at several US and foreign businesses in China.

MGT-498 INDEPENDENT STUDY (1-3 Credits)
Research in selected topics in management sciences under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MGT-499 INDEPENDENT STUDY (1-3 Credits)
A well-defined course of study of specific topics in management sciences that go beyond the regular course offerings.

MGT-499A SPECIAL TOPICS (3 Credits)

MGT-499B CURR.ISSUES IN MANAGEMENT (3 Credits)

MGT-499BA SP TOP:INTRO TO BUSINESS ANALYTICS (3 Credits)
Prerequisite(s): QMX-211

MGT-499C ENTREPRENEURSHIP (3 Credits)

MGT-499D PROB SOLVING/DECISION MAKING (3 Credits)

MGT-499H ADVANCED MANAGEMENT PROJECTS (3 Credits)
Restrictions: RG.HON

MGT-499HS OVERVIEW OF THE US HEALTHCARE SYSTEM (3 Credits)

MGT-499I ENTREPRENEURIAL LEADERSHIP (3 Credits)

MGT-499K SPECIAL TOPICS: CHANGE MANAGEMENT (3 Credits)

MGT-499L SP TOPICS: PROJECT MANAGEMENT (3 Credits)

MGT-499M SP TOP: INTRO TO NON-PROFIT ORG. (3 Credits)

MGT-499N SP TOP: MODELING & SIMULATION FOR BUSIN (3 Credits)
Prerequisite(s): MGT-301

MGT-499P INTERN'L BUSINESS FRAUD (3 Credits)

MGT-499Q SOCIAL ENTREPRENEURSHIP (3 Credits)

MGT-499R SOCIAL ENTREPRENEURSHIP FOR NON-PROFITS (3 Credits)

MGT-499S IND ST: MANAGEMENT OF SPORTS (1-3 Credits)
A well-defined course of study of specific topics in management sciences that go beyond the regular course offerings.

MGT-499T SP TOP: SUPPLY CHAIN MGMT (3 Credits)

MGT-499U SP TOP: LDRSHP IN PROJECT MGMT (3 Credits)
Prerequisite(s): MGT-301

MGT-499W INTN'L BUSINESS CHINA STUDIES (3 Credits)

MGT-499X GLOBAL LEADERSHIP & ETHICAL DECISION MAKING (3 Credits)

MGT-499Y SPECIAL TOPIC: EVENT MANAGEMENT (3 Credits)

MGT-499Z SP TOP: INTRO TO BUSINESS CONSULTING (3 Credits)
MARKETING (MKT)

MKT-301 PRINCIPLES OF MARKETING (3 Credits)
An in-depth analysis of marketing functions. Topics include consumer behavior, product planning, pricing, distribution and promotion.

MKT-301H PRINC. OF MARKETING (HONORS) (3 Credits)
Restrictions: RG.HON

MKT-302 CONSUMER BEHAVIOR (3 Credits)
Examination of theory and recent research concerning buyer decision processes. Interdisciplinary studies of individual, family and organizational purchases behavior are examined. Present and potential applications for marketing in the public and private sector are discussed.
Prerequisite(s): Take MKT-301

MKT-303 SALES MANAGEMENT & PERSONAL SELLING (3 Credits)
Management of the personal-selling function in both industrial and consumer goods firms. Topics include personal selling and marketing strategy; organizational of the sales force; recruiting; training, motivating, compensation and evaluating sales personnel; and controlling the sales effort.
Prerequisite(s): Take MKT-301

MKT-303B SALES MANAGEMENT (3 Credits)

MKT-304 MERCHANDISING (3 Credits)
An investigation of the marketing functions particularly as they apply to the retail level of the distribution system.
Prerequisite(s): Take MKT-301

MKT-304D MERCHANDISING (3 Credits)

MKT-305 CHANNELS OF DISTRIBUTION (3 Credits)
An analysis of the institutional structure of the channel which creates and distributes product assortment to specific markets. Special emphases on decision making in channel design, communication, leadership, conflict and control.
Prerequisite(s): Take MKT-301

MKT-306 INTEGRATED MARKETING COMMUNICATION (3 Credits)
An effective integrated marketing communication strategy is one that has one overall message, but is delivered to consumers in parts, through different channels of communication. Each channel has its own unique advantages and disadvantages, which contribute to which channels deliver which parts of a message. Students in this course will gain knowledge about how integrated marketing communications strategies are developed and implemented. This includes the relationship between an integrated marketing communications strategy and other levels of an institution’s strategy; the various roles that exist, from the marketing department to advertising agencies, and research related to development and effectiveness of an organization’s integrated marketing communications strategy.
Prerequisite(s): Take MKT-301

MKT-306C ADVERTISING (3 Credits)

MKT-307 PERSONAL SELLING (3 Credits)
Emphasis on personal and professional development, interpersonal skills, verbal and written presentation skills, understanding sales and buying processes, and developing and maintaining customer satisfaction. Topics include developing trust and rapport, consultative selling, prospecting, and territory and account management.
Prerequisite(s): Take MKT-301

MKT-308 DIGITAL & SOCIAL MEDIA MARKETING (3 Credits)
This course provides students with knowledge of how the principles of marketing are brought to digital channels. Search Engine Optimization provides students with the tools they need to manage a website’s ranking on search engines and the power of search engine analytics. This is combined with techniques to apply other marketing topics to digital channels such as social media and mobile device marketing.
Prerequisite(s): Take MKT-301

MKT-309 SPORTS MARKETING (3 Credits)
This course exposes students to special considerations necessary when applying marketing theory and practice to the area of sports. Upon successful completion of the course, students are expected to develop a better understanding of sports as a marketable commodity and to appreciate the intricacies of sports marketing.
Prerequisite(s): Take MKT-301

MKT-310 EVENT & SPONSORSHIP MARKETING (3 Credits)
This course investigates two interrelated topics: Event Marketing and Sponsorship. The first half of the course focuses attention on event marketing including event planning, generating revenue and strategic partnerships. The second half of the course focuses on sponsorship including measuring sponsorship’s effectiveness, selling sponsorships, and understanding the interrelationships between advertising, sponsorships and celebrity endorsers. In addition, ‘naturally occurring events’ such as the Super Bowl and Olympics will provide case study material for discussion.
Prerequisite(s): Take MKT-301

MKT-311 AMER. ADVERTISING FEDERATION (3 Credits)
This course is built upon a competition (National Student Advertising Competition) that is sponsored by the American Advertising Federation. Each year, a corporate sponsor provides an assignment or case study outlining the history of its product and current advertising situation. The case study is always candid and reflects a real world situation. Students must research the product and its competition, identify potential problem areas and devise a completely integrated communications campaign for the client. Each student team then ‘ pitches’ its campaign to a panel of judges. Regional NSAC competitions are held each spring in 15 district throughout the U.S. The team in each district and one wild card team then advances to compete on the national level at the AAF National Conference in June. St. Bonaventure University participates in the competition.
Prerequisite(s): Take MKT-301

MKT-401 BUS. COMMUNICATION (3 Credits)

MKT-402 MARKETING RESEARCH (3 Credits)
An analytical approach to investigating consumer markets and collecting and analyzing relevant marketing information. Topics include problem definition, data collection methods, questionnaire design, editing and coding, statistical analysis and interpretation and presentation of results.
Prerequisite(s): Take MKT-301 QMX-212

MKT-402B MARKETING RESEARCH (3 Credits)

MKT-405 INTERNATIONAL MARKETING (3 Credits)
An in-depth analysis of the concepts that involve the marketing operations of multinational markets, foreign corporation and the effect they have on international business.
Prerequisite(s): Take MKT-301

MKT-407 QUANTITATIVE MARKETING MODELS (3 Credits)
The application of management science techniques to marketing problems to assist the students in developing their capacity to understand, build and implement quantitative models.
MKT-410 Contemp. Issues and Topics in Marketing (3 Credits)
This course is the undergraduate marketing capstone. Each week a different topic that is important to contemporary marketing practices and theory will be covered. The course is seminar style, supported by a combination of case studies and applications of the contemporary topics by students to outside-world situations. Students will apply the knowledge they gained throughout the program to these topics and learn how they are interrelated within marketing as well as with other areas of an organization, including other business disciplines.
Restrictions: RG.86+

MKT-498 IND. STUDY (1-3 Credits)
Study of specific topics in marketing carried out independently by the student under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MKT-498A INDEPENDENT STUDY (3 Credits)

MKT-498B IND. STUDY: FASHION MARKETING (3 Credits)
Study of specific topics in marketing carried out independently by the student under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MKT-499 SPECIAL TOPICS IN MARKETING (1-3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
Restrictions: RGC.119

MKT-499A ADVANCED AM. ADVERTISING FED. (1-3 Credits)
Corequisite(s): MKT-301

MKT-499B SPORTS MARKETING (3 Credits)

MKT-499C SP TOP: EVENT/SPONSORSHIP MKTG (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499D SP TOP: PERSONAL SELLING (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499E SP TOP: AMERICAN AD FEDERATION (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499F INTERNET MARKETING (3 Credits)

MKT-499FM SP TOP: FOOD MARKETING (3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301

MKT-499G BLDG MARKETING WEB SITES (3 Credits)

MKT-499H SPECIAL TOPICS IN MARKETING (1-3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
Restrictions: RG.HON

MKT-499I SP TOPICS: NAT ACCT MGMT (3 Credits)
Prerequisite(s): TAKE MKT-301

MKT-499IM SP TOPIC: MANAGING INNOVATION (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499J NEW PRODUCT DEVELOPMENT (3 Credits)
Prerequisite(s): TAKE MKT-301

MKT-499K SP TOP BRAND MANAGEMENT (3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301

MKT-499L SP TOP: MUSIC MARKETING (3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301

MKT-499M SP TOP: INTERNATIONAL MARKETING (1-3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301

MKT-499MA SP TOP: MARKETING ANALYTICS (3 Credits)
Prerequisite(s): Take MKT-301 & QMX-212

MKT-499MH SP TOP: INTERNATIONAL MARKETING HONORS (1-3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
Restrictions: RG.HON

MKT-499P SPECIAL TOPICS: ADVERTISING & DIGITAL DESIGN (3 Credits)
This course is an application-based course that will train students on how social media marketing is utilized by organizations to build relationships with customers and bring value to the organization. While social media usage is wide-ranging between both consumers and organizations, the ability of an organization to successfully initiate cross platform/channel strategies has been inconsistent. As such, those with the skills to develop engaging social media strategies across platforms will help organizations achieve competitive advantages in the marketplace. These strategies include profile optimization, content development, influencer marketing, advertising, consumer and employee advocacy, crises response initiatives, launch planning and execution, and strategy evaluation through social media analytics.
Corequisite(s): MKT-301

MKT-499R SP TOP: ADV MKTG RES (3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-402

MKT-499SA SPECIAL TOPICS: SOCIAL MEDIA MARKETING APPLICATIONS (3 Credits)
This course is an application-based course that will train students on how social media marketing is utilized by organizations to build relationships with customers and bring value to the organization. While social media usage is wide-ranging between both consumers and organizations, the ability of an organization to successfully initiate cross platform/channel strategies has been inconsistent. As such, those with the skills to develop engaging social media strategies across platforms will help organizations achieve competitive advantages in the marketplace. These strategies include profile optimization, content development, influencer marketing, advertising, consumer and employee advocacy, crises response initiatives, launch planning and execution, and strategy evaluation through social media analytics.
Prerequisite(s): MKT-301 AND MKT-308

MKT-499SM SP TOP: SERVICES MARKETING (3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
MKT-499T SP TOP. NEW MEDIA MKTG (3 Credits)
Prerequisite(s): TAKE MKT-301

MKT-499Z PERSONAL SELLING (3 Credits)
MATHEMATICS (MATH)

MATH-099 DEVELOPMENTAL MATHEMATICS (3 Credits)
The course is intended for students who need to improve their fundamental knowledge of basic arithmetic and algebra skills before they can be successful in the mathematics course required for their major. Topics will include fractions, decimals, signed numbers, percents, ratios and proportions, linear and polynomial expressions, equations, and graphs. Applications are emphasized throughout in preparation for further study in mathematics and other disciplines which involve quantitative problems. Students will be placed into this course by the Mathematics Department based on a combination of high school record, SAT/ACT scores, and/or placement exam score. This course will not satisfy the quantitative reasoning requirement for Clare College. Students may not enroll in this course if they have successfully completed any college mathematics course.

MATH-107 INTRODUCTION TO STATISTICS (3 Credits)
This course is a non-calculus-based study of statistics, including descriptive methods, basic probability theory, some design and data-collection issues, and procedures for statistical inference. Topics on statistical inference include confidence intervals and hypothesis testing for means and proportions along with chi-squared tests. Emphasis is on set-up and interpretation rather than on computation, with a significant reliance on computer software and/or statistical calculators for the ‘number crunching’ portion of the analysis. Students may not receive credit for both MATH 107 and MATH 117. MATH 107 includes all content in MATH 117 except ANOVA, and consequently moves at a slower pace than MATH 117.

MATH-108 PRECALCULUS (3 Credits)
This course provides a detailed study of topics needed for success in calculus: algebra, trigonometry, analytic geometry, and functions. Intended for students who need to take at least one semester of calculus for their major.

Restrictions: RG.MA151

MATH-111 MATHEMATICS OF ELEMENTARY EDUCATION I (3 Credits)
This course, in conjunction with Math 112, is intended to give pre-service elementary school teachers a deep understanding of the mathematical systems that they will be expected to teach. The content of Math 111 includes the arithmetic systems of the whole numbers, the integers, and the rationales (at least in fraction form). For each system, students are expected to understand not only how to perform the four arithmetic operations, but also to understand what those operations accomplish in real life, why the operations work the way they do, and how to model or represent those operations in concrete or semi-concrete ways. The study of the integers will include some basic number theory concepts. Underlying all topics in Math 111 are the notions of estimation and mental arithmetic, problem solving, mathematical communication, and viewing mathematics as a logical and sensible system rather than a set of memorized procedures. Intended for elementary education majors. Offered Fall.

Restrictions: RGALLED

MATH-112 MATHEMATICS FOR ELEMENTARY EDUCATION II (3 Credits)
This course is a continuation of Math 111, with the same philosophy and emphasis on achieving a deep understanding of elementary school mathematics. The content for Math 112 includes the real number system (as comprised of terminating, repeating, and non-repeating decimals), percents and proportions, probability, descriptive statistics, measurement (in English, metric, and non-standard units), and an overview of basic terminology and concepts from geometry. Intended for elementary education majors. Offered Spring.

Prerequisite(s): Take MATH-111

Restrictions: RGALLED

MATH-117 INTRODUCTION TO STATISTICS FOR NATURAL SCIENCE MAJORS (3 Credits)
This non-calculus-based study of statistics includes descriptive methods, basic probability theory, some design and data-collection issues, and procedures for statistical inference. Topics on statistical inference include confidence intervals and hypothesis testing for means and proportions, Chi-squared tests, and one-way and two-way ANOVA. Emphasis is on set-up and interpretation rather than on computation, with a significant reliance on computer software and/or statistical calculators for the ‘number crunching’ portion of the analysis. Students may not receive credit for both MATH 107 and MATH 117. MATH 117 includes all content in MATH 107, but moves at a faster pace to allow for the inclusion of the ANOVA topics.

MATH-121 FINITE MATH FOR MGT & SOC SCI (3 Credits)
An introduction to mathematical techniques used in management and social science applications, including matrix arithmetic for modeling multivariable problems, Gauss-Jordan elimination for solving systems of equations, graphical and simplex methods for solving linear programming optimization tasks, and basic notions from the mathematics of finance.

MATH-122 CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCES (3 Credits)
This course is an introduction to differential and integral calculus with applications to management and social sciences. This course emphasizes the modeling of problems and the interpretations of results rather than theory. Students who have successfully completed Math 151 may not take this course for credit. Although there is no prerequisite, students are encouraged to take Math 121 before attempting Math 122.

MATH-135 QUANTITATIVE REASONING (3 Credits)
This course enables students to apply quantitative reasoning skills to their daily lives. The topics include numerical reasoning, logical reasoning, and statistical reasoning, all applied to a variety of problems facing citizens of the 21st Century.

MATH-145 INTRODUCTION TO MATHEMATICAL CONCEPTS (3 Credits)
The purpose of Math 145 is to develop in students an appreciation of and a sense of accomplishment in mathematics by exploring topics that they have likely not seen in high school and illustrating them with contemporary real-world applications. The course is intended for students majoring in liberal arts disciplines. The topics of the course may vary from semester to semester, but the topics covered most often are graph theory, social choice, coding, and symmetry.

Restrictions: MATH151T

MATH-151 CALCULUS I (4 Credits)
The study of calculus of functions of one variable. The course covers rates of change, limits, the derivative, the definite integral, the Fundamental Theorem of Calculus, area and average value, and exponential growth and decay. All topics are treated with an emphasis on graphical interpretation. Prerequisite: an understanding of algebra and trigonometry at the level of Math 108.
MATH-152 CALCULUS II (4 Credits)
A continuation of Math 151 that includes methods of integration, numerical integration, applications of definite integral, double integrals, Taylor polynomials and approximation, infinite sequences and series, and vectors in two dimensions.
Prerequisite(s): Take MATH-151

MATH-199 READINGS IN MATHEMATICS (1-3 Credits)
This course offers the interested student an opportunity to work under the supervision of a faculty member in exploring an area of mathematics beyond the scope of existing courses. The topic and content for the semester (and the plan for grading) must be approved by the department chair before the course is included in offerings. The course is not open to mathematics majors.

MATH-207 DISCRETE MATHEMATICS I (3 Credits)
An introduction to topics in discrete mathematics, including logic, set theory, functions and sequences, methods of proof, algorithms, number theory, counting, and discrete probability.

MATH-208 DISCRETE MATHEMATICS II (3 Credits)
A continuation of Math 207 that includes advanced counting techniques, relations, graphs and trees, Boolean algebra, languages and grammars, and finite state machines. Students who have successfully completed Math 345 may not take this course for credit.
Prerequisite(s): Take MATH-207

MATH-211 GEOMETRY FOR ELEMENTARY EDUCATION (3 Credits)
An intuitive approach to geometry whose topics include angles, polygons, circles, parallelism, area, perimeter, similarity, congruence, volume, and surface area. Transformations are studied and applied to tessellations and symmetry. The course contains some proofs, but most results are developed by way of informal arguments and inductive reasoning. A dynamic geometry software package is used. Intended for elementary education majors. Offered Spring.
Prerequisite(s): Take MATH-112

MATH-241 LINEAR ALGEBRA (3 Credits)
An introduction to linear algebra and its applications. Topics include systems of linear equations, vectors, matrices, linear geometry, vector spaces, dimension, and linear transformations. Offered Spring.
Prerequisite(s): Take MATH-152 MATH-207

MATH-251 CALCULUS III (4 Credits)
The study of calculus of functions of several variables. Topics include vectors and graphs in three dimensions, partial derivatives and their applications, multiple integrals and their applications, and line surface integrals. Offered Fall.
Prerequisite(s): Take MATH-152

MATH-252 ORDINARY DIFFERENTIAL EQUATIONS (3 Credits)
An introduction to ordinary differential equations. Topics include modeling, analytic solutions, qualitative study of solutions, and numerical approximation of solutions. Offered Spring.
Prerequisite(s): Take MATH-152

MATH-281 PROBLEM-SOLVING SEMINAR (1 Credit)
Techniques of mathematical problem-solving are studied and applied to a wide range of problems. Students present their solutions for class discussion. This course prepares students to take the Putnam exam, if they wish to do so. May be repeated for credit. Offered Fall.
Prerequisite(s): Take MATH-152 MATH-207

MATH-312 GEOMETRY (3 Credits)
This course views mathematics as comprised of axiomatic systems, and illustrates this view with a study of Euclidean and non-Euclidean geometries. The course includes Euclidean constructions, along with transformational and coordinate/analytical approaches as alternatives to synthetic geometry. A dynamic geometry computer software package is used as appropriate.
Prerequisite(s): Take MATH-207 MATH-241

MATH-322 MATHEMATICAL PROBABILITY (3 Credits)
This course is a calculus-based study of probability that includes basic probability theorems, the notions of discrete and continuous random variables, mathematical expectation, moment-generating functions, change of variable, multivariate distributions, product moments, and the Central Limit Theorem in preparation for inferential statistics. Offered Spring of odd years.
Prerequisite(s): Take MATH-152 MATH-207

MATH-323 MATHEMATICAL STATISTICS (3 Credits)
This course is a calculus-based study of statistics. The course includes a brief overview of some issues in experimental design and data collection, followed by a careful study of techniques for and interpretation of inferences regarding means, variances, proportions, regression, and correlation. Computers and/or calculators are used in these analyses. Some time is devoted to non-parametric procedures. Offered Fall of odd years.
Prerequisite(s): Take MATH-322

MATH-341 ABSTRACT ALGEBRA I (3 Credits)
This proof-intensive, theoretic course examines the properties of generalized algebraic structures, focusing primarily on groups, rings, integral domains, and fields. Illustrative examples include the real number system and several of its sub-systems, permutation groups, groups of functions under composition, modular arithmetic, the complex numbers, and matrices. Offered Fall of even years.
Prerequisite(s): Take MATH-207 MATH-241

MATH-342 ABSTRACT ALGEBRA II (3 Credits)
The proof-intensive, theoretic study of mathematical structures with an emphasis on rings, ideals, integral domains, fields, and vector spaces.
Prerequisite(s): Take MATH-341

MATH-345 GRAPH THEORY (3 Credits)
A study of graphs and digraphs from both an abstract and algorithmic point of view. The course includes topological properties, numerical representations, and applications of graphs.
Prerequisite(s): Take MATH-207

MATH-351 INTRODUCTION TO REAL ANALYSIS I (3 Credits)
This proof-intensive, theoretic course covers the basic principles and theory of mathematical analysis of functions of a single real variable, including the topology of the real number system, sequences, limits, continuity, differentiation, integration, infinite series of real numbers, and infinite series of functions. Offered Fall of odd years.
Prerequisite(s): Take MATH-207 MATH-241

MATH-352 INTRODUCTION TO REAL ANALYSIS II (3 Credits)
A proof-intensive, theoretic development of the calculus of functions of several real variables.
Prerequisite(s): Take MATH-351
MATH-409 SPECIAL TOPICS (3 Credits)
MATH-409A SPECIAL TOPICS: THE PROBLEM SOLVING SEMINAR II (1-3 Credits)

MATH-413 NUMBER THEORY (3 Credits)
Basic concepts, divisibility, primes, Diophantine equations, congruence, Euler's function, and applications to cryptography.
Prerequisite(s): Take MATH-207

MATH-431 NUMERICAL ANALYSIS (3 Credits)
An introduction to numerical techniques and mathematical models, including data representation, graphing, systems of equations, interpretation, approximation, and random simulation.
Prerequisite(s): Take CS-131 MATH-241 MATH-251

MATH-432 OPERATIONS RESEARCH (3 Credits)
Problem formulation, linear programming, transportation, transshipment and assignment problems, network analysis, dynamic programming, game theory, queuing theory, and computer simulation.
Prerequisite(s): Take CS-131 MATH-241 MATH-251 MATH-322

MATH-453 COMPLEX VARIABLES (3 Credits)
A study of the complex number system, functions of a complex variable, and calculus concepts applied to such functions.
Prerequisite(s): Take MATH-251

MATH-461 HISTORY & PHILOSOPHY OF MATHEMATICS (3 Credits)
The course offers an overview of the people, times, circumstances, and applications related to the major developments in mathematics, including some of the philosophical issues underlying these developments. Contributions of minorities and of other cultures are studied. Topics from lower-level courses are put into historical and philosophical perspective and integrated together, and some new topics are presented. Students are required to write papers and to make oral presentations in class on topics of their choice.
Restrictions: RGC.105

MATH-481 SPECIAL TOPICS GEOMETRY (1-3 Credits)
MARKOV CHAINS, DESIGN OF EXPERIMENTS.
Prerequisite(s): MATH-207 MATH-251

MATH-484 SPECIAL TOPICS ALGEBRA (1-3 Credits)
Prerequisite(s): TAKE MATH-207

MATH-485 SPECIAL TOPICS ANALYSIS (1-3 Credits)

MATH-486 SPECIAL TOPICS TOPOLOGY (1-3 Credits)
Prerequisite(s): TAKE MATH-251 AND MATH-241

MATH-487 SPECIAL TOPICS APPLIED MATH. (3 Credits)
MATH-487A APPLIED MATHEMATICS (1 Credit)
MATH-487B SP TOPI DATA SCIENCE II (3 Credits)
MATH-487D SP TOP: DATA SCIENCE WITH PYTHON (3 Credits)

MATH-492 SENIOR COMPREHENSIVE PROJECT (1 Credit)
The project consists of selecting a topic relating to, but beyond the usual scope of, a 300- or 400-level mathematics course, writing a paper on the topic, and then presenting the paper to the mathematics faculty and other mathematics students. The paper and the talk are prepared under the guidance of a mathematics faculty member, typically the one who taught the course to which the topic relates.
Restrictions: RG.86+
MS-101 FOUND OF OFFICERSHIP (1 Credit)
(Course and lab) The purpose of this semester is to introduce cadets to fundamental components of service as an officer in the United States Army. These initial lessons form the building blocks of progressive lessons in values, fitness, leadership, and officership. Additionally, the semester addresses ‘life skills’ including fitness, communications theory and practice (written and oral), and interpersonal relationships.

MS-101L FOUNDATIONS OF OFFICERSHIP LAB (1 Credit)
(Course and lab) The purpose of this semester is to introduce cadets to fundamental components of service as an officer in the United States Army. These initial lessons form the building blocks of progressive lessons in values, fitness, leadership, and officership. Additionally, the semester addresses ‘life skills’ including fitness, communications theory and practice (written and oral), and interpersonal relationships.

MS-102 BASIC LEADERSHIP (1 Credit)
(Course and lab) This course, available to all students without any military obligation, is designed as a classroom and optional lab course that stresses the fundamentals of leadership. The course goals are to provide students with leadership and managerial skills that will prepare them to lead in public service, business, military and community organizations. This course uses a military model to train leadership development through an introduction to problem solving, effective decision making techniques, and delves into several aspects of communication and leadership theory. The classroom instruction is reinforced throughout the course with practical exercises that focus on individual leadership skills, as well as motivational techniques and how to function as an effective member of a team.

MS-102L BASIC LEADERSHIP LAB (1 Credit)
(Course and lab) This course, available to all students without any military obligation, is designed as a classroom and optional lab course that stresses the fundamentals of leadership. The course goals are to provide students with leadership and managerial skills that will prepare them to lead in public service, business, military and community organizations. This course uses a military model to train leadership development through an introduction to problem solving, effective decision making techniques, and delves into several aspects of communication and leadership theory. The classroom instruction is reinforced throughout the course with practical exercises that focus on individual leadership skills, as well as motivational techniques and how to function as an effective member of a team.

MS-201 INDIVIDUAL LEADERSHIP STUDIES (2 Credits)
(Course and lab) Building upon the fundamentals introduced in the MS 1 year, this instruction delves into several aspects of communication and leadership concepts. The use of practical exercise is significantly increased and cadets are increasingly required to apply communications and leadership concepts. Virtually the entire semester teaches critical ‘life skills.’ The relevance of these life skills to future success in the Army is emphasized throughout the course.

MS-201L INDIVIDUAL LEADERSHIP STUDIES LAB (1 Credit)
(Course and lab) Building upon the fundamentals introduced in the MS 1 year, this instruction delves into several aspects of communication and leadership theory. The use of practical exercise is significantly increased and cadets are increasingly required to apply communications and leadership concepts. Virtually the entire semester teaches critical ‘life skills.’ The relevance of these life skills to future success in the Army is emphasized throughout the course.

MS-202 LEADERSHIP & TEAMWORK (2 Credits)
(Course and Lab) The final semester of the Basic Course focuses principally on officership, providing an extensive examination of the unique purpose, roles and obligations of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application in decision making and leadership.

MS-202L LEADERSHIP & TEAMWORK LAB (1 Credit)
The final semester of the Basic Course focuses principally on officership, providing an extensive examination of the unique purpose, roles and obligations of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application in decision making and leadership.

MS-301 LEADERSHIP/PROB.SOLVING (3 Credits)
(Course and Lab) The MSL 300 level curriculum is intended to build leadership competencies and facilitate the cadet’s initial demonstration of individual leadership potential at Leader Development and Assessment Course (LDAC), while also preparing cadets for their future responsibilities as officers. MSL 300 level instruction uses small unit infantry tactics as the context for the development and assessment of leadership. While a measure of technical and tactical understanding of small unit operations is necessary, the focus of instruction is on the leadership competencies.

MS-301L LEADERSHIP/PROB.SOLVING LAB (1 Credit)
(Course and Lab) The MSL 300 level curriculum is intended to build leadership competencies and facilitate the cadet’s initial demonstration of individual leadership potential at Leader Development and Assessment Course (LDAC), while also preparing cadets for their future responsibilities as officers. MSL 300 level instruction uses small unit infantry tactics as the context for the development and assessment of leadership. While a measure of technical and tactical understanding of small unit operations is necessary, the focus of instruction is on the leadership competencies.

MS-302 LEADERSHIP AND ETHICS (3 Credits)
(Course and Lab) The final semester of the MSL III year focuses principally on officership, providing an extensive examination of the unique purpose, roles and obligations of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application in decision making and leadership.

MS-302L LEADERSHIP AND ETHICS LAB (1 Credit)
(Course and Lab) The final semester of the Basic Course focuses principally on officership, providing an extensive examination of the unique purpose, roles and obligations of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application in decision making and leadership.

Prerequisite(s): Take MS-301L
MS-401 LEADERSHIP & MANAGEMENT (3 Credits)
(Course and Lab) This semester of the Advanced Course concentrates on leadership, management and ethics, and begins the final transition from cadet to lieutenant. The course focuses cadets, early in the year, on attaining knowledge and proficiency in several critical areas they will need to operate effectively as Army officers. These areas include: Coordinate Activities with Staffs, Counseling Theory and Practice within the 'Army Context,' Training Management, and Ethics.
Prerequisite(s): Take MS-302

MS-401L LEADERSHIP & MANAGEMENT LAB (1 Credit)
(Course and Lab) This semester of the Advanced Course concentrates on leadership, management and ethics, and begins the final transition from cadet to lieutenant. The course focuses cadets, early in the year, on attaining knowledge and proficiency in several critical areas they will need to operate effectively as Army officers. These areas include: Coordinate Activities with Staffs, Counseling Theory and Practice within the 'Army Context,' Training Management, and Ethics.

MS-402 OFFICERSHIP (3 Credits)
(Course and Lab) The final semester focuses on completing the transition from cadet to lieutenant. The course starts with a foundation in the legal aspects of decision making and leadership. Following modules reinforce the organization of the Army and introduce how the Army organizes for operations from the tactical to strategic level. Instruction on administrative and logistical management focuses on the fundamentals of soldier and unit level support. The final module focuses on the process of changing duty stations and reporting to a new unit. The Capstone Exercise requires the cadets, both individually and collectively, to apply their knowledge to solve problems and confront situations commonly faced by junior officers.
Prerequisite(s): Take MS-401

MS-402L OFFICERSHIP LAB (1 Credit)
(Course and Lab) The final semester focuses on completing the transition from cadet to lieutenant. The course starts with a foundation in the legal aspects of decision making and leadership. Following modules reinforce the organization of the Army and introduce how the Army organizes for operations from the tactical to strategic level. Instruction on administrative and logistical management focuses on the fundamentals of soldier and unit level support. The final module focuses on the process of changing duty stations and reporting to a new unit. The Capstone Exercise requires the cadets, both individually and collectively, to apply their knowledge to solve problems and confront situations commonly faced by junior officers.
Prerequisite(s): Take MS-401L

MS-499 IN.STDY-MILITARY SCIENCE (1-2 Credits)
Directed independent study in selected areas. Students may register for one hour per semester or one hour the first and two hours the second semester. They may not register for three hours during one semester. Not for graduate credit. Prerequisite: consent of the director of Army Military Science.
MODERN LANGUAGES (ML)

ML-300 INTRO INTERCULTURAL COMMUNICATION (3 Credits)
This course will analyze how culture defines one’s view of the world and shapes one’s (re)actions, beliefs, and expectations. It will also teach students to understand techniques for living and working successfully in a multicultural setting, be it with people from other countries, or American citizens from varied cultural, ethnic, and/or generational backgrounds. Appropriate for students interested in becoming a genuine citizen of the world.
MUSIC (MU)

MU-101 CONCERT BAND (1 Credit)
Performance and study of original and transcribed literature for the concert band. Emphasis on ensemble and sectional rehearsals sight-reading and public performances. Audition may be required. May be repeated for credit.

MU-102 CONCERT CHOIR (1 Credit)
A group of mixed voices which studies and performs major choral works in addition to standard sacred secular music. More advanced students will be selected by audition to participate in the Chamber Singers.

MU-102A CHAMBER SINGERS (1 Credit)

MU-103 JAZZ BAND (1 Credit)
Performance and study of works arranged for standard jazz band instrumentation. Emphasis on ensemble and sectional rehearsals, basic jazz improvisation techniques and public performances. Audition may be required. May be repeated for credit.

MU-104 SMALL ENSEMBLE (1 Credit)
Performance and study of works arranged for various chamber ensembles (such as brass quintet, woodwind quintet, etc.). Public performances required. Audition may be required. May be repeated for credit.

MU-105 APPLIED MUSIC (1 Credit)
Private instruction in voice, piano, percussion and various other instruments. Previous experience in the performance area is required. Audition may be required. May be repeated for credit.

MU-111 UNDERSTANDING MUSIC (3 Credits)
The chief aim of this course is to help the student learn how to critically listen to music. Areas of study include: elements of music, important musical genres, major composers and 20th century music. Although this course emphasizes 'art' music of western civilization, experiences with other types of music are also provided (e.g., jazz, folk, film music, etc.)

MU-111C UNDERSTANDING MUSIC (3 Credits)
The chief aim of this course is to help the student learn how to critically listen to music. Areas of study include: elements of music, important musical genres, major composers and 12th century music. Although this course emphasizes 'art' music of western civilization, experiences with other types of music are also provided (e.g., jazz, folk, film music, etc.)

MU-121 MUSIC THEORY I (3 Credits)
A course designed to provide a workable knowledge of the principles involved in 4-part harmonization. Experiences are provided in reading and writing music, and creative activities. A basic understanding of musical rudiments is desirable, but not a prerequisite.

MU-122 MUSIC THEORY II (3 Credits)
Continuation of MU-121. Areas of study include: non-diatonic harmony, 20th-century theoretical/compositional principles (e.g., serialism, set-theory, etc.) and non-traditional music notational systems.
Prerequisite(s): Take MU-121

MU-211 MUSIC HIST I: MUS. BEGINNINGS (3 Credits)
This course is designed to help the student discover the origins of Western music. This history of music will be traced from Ancient Greece and Rome, through Gregorian chant and culminating in the Baroque period (1750). Emphasis is placed on the contributions of leading composers and on the general style characteristics of the music.

MU-212 MUSIC HISTORY II: THE COMMON PRACTICE PERIOD AND BEYOND (3 Credits)
A survey of music from the Baroque through the Romantic periods. Emphasis is placed on the leading composers and on the general stylistic characteristics of the music. The chief aim of this course is to help students learn about the styles and composers of the 'Common Practice Period': the Baroque, Classical and Romantic periods in music, culminating in the advent of music in the Modern Period. Emphasis is placed on the leading composers of each period and the general style characteristics of the music. Through lectures, reading, listening and discussion, students will gain insight into the compositional ideas of each period, as well as the historical events that affected the arts.

MU-212H MUSIC HIST II: CLASS/CONT-HON (3 Credits)
Restrictions: RG.HON

MU-213 MODERNISM AND POST-MODERNISM (3 Credits)
The chief aim of this course is to help students learn about the styles and composers of the 20th century and beyond. Through lectures, reading, listening and discussion, students will gain insight into the compositional ideas that created the chaos and controversy of Modern and Post-Modern music, and explore the historical events that affected the arts.

MU-221 COMPOSITION (3 Credits)
An introduction to the creative processes of composition. Techniques relevant to both traditional and contemporary compositional forms will be discussed and practiced. Performances of student compositions will be encouraged.

MU-231 JAZZ IMPROVISATION (3 Credits)
A laboratory course is designed to acquaint the instrumentalist with the art of jazz improvisation. In-class student performance will be developed and encouraged and classic recorded jazz solos will be studied and analyzed.

MU-233 ELEM. CONDUCTING (3 Credits)
The techniques of conducting both with and without baton. Techniques include metrical patterns, fermatas, cut offs, cues, entrances, tempi, moods, etc. Students will conduct both live and recorded performances. (Formerly MU 300).

MU-312 AMERICAN MUSIC (3 Credits)
A survey of music of the United States from European colonization to the present. Included in the course will be an overview of the music of Native Americans, the first New England school, the rise of American popular music, and the development of an American classical tradition. The course will culminate with the art music and mixed media of the 20th century.

MU-313 HISTORY OF JAZZ (3 Credits)
A survey of jazz from its earliest origins to the present. Emphasis is placed on the leading performers and their contribution to the development of the art form.

MU-314 HISTORY OF MUSICAL THEATER (3 Credits)
An overview of the American musical theater productions from the mid-nineteenth century to the present, with a concentration on the musical content of a number of individual musicals through recordings and videos.

MU-315 WORLD MUSIC (3 Credits)
A survey of music of other cultures through the concept of ethnomusicology. Music of Africa, Asia, the Near East, the Pacific and Latin America will be emphasized. Additionally, Native American and other non-traditional western music will be studied.
MU-315C WORLD MUSIC (3 Credits)
A survey of music of other cultures through the concept of ethnomusicology. Music of Africa, Asia, the Near East, the Pacific and Latin America will be emphasized. Additionally, Native American and other non-traditional western music will be studied.

MU-316 HISTORY OF ROCK & ROLL (3 Credits)
This course will be a historical overview of popular music primarily from the second half of the 20th century to the present. The course examines rock and roll in all of its forms, starting with the precursors of rock and roll and ending with current trends in the popular music scene. Changes in music production and distribution, evolutions of instrumentation and style and the advent of electronics and technology will be addressed.

MU-321 JAZZ ARRANGING (3 Credits)
Examination of melodic, harmonic, and rhythmic considerations in modern jazz band arranging. Students create original arrangements for a variety of instrumentations, from small groups to big band. Student performance of student arrangements is encouraged. Prerequisite: MU 122. 3 credits. Fall.

Prerequisite(s): TAKE MU-122

MU-399 SPECIAL TOPICS IN MUSIC (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399A SP TOPICS: MODERNISM (3 Credits)

MU-399B SP TOP: PIANO LITERATURE (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399C SP TOP: iPAD MUSIC PRODUCTION (3 Credits)

MU-399D SP TOP: CHAMBER MUSIC LIT (3 Credits)

MU-399E SP TOP: MUSIC HISTORY MODERN (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399EH SP TOP: MUSIC HISTORY MODERN HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

Restrictions: RG.HON

MU-399F SP TOP: PRODUCTION & SOUND DESIGN (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399G SP TOP: PRODUCTION & SOUND DESIGN (3 Credits)

MU-431 MIDI & AUDIO APPLICATIONS (3 Credits)
A course dealing with music and sound production using MIDI (Musical Instrument Digital Interface) and audio hardware within the concept of a Macintosh-based digital audio workstation (DAW). Students will learn to record, edit, process, mix, and distribute music and sound. MIDI and audio theory will be discussed and students will work with a wide range of software such as sequencers, editors, audio plug-ins, and software instruments.

MU-499 SENIOR MUSIC PROJECT (3 Credits)
Independent study or creative endeavor in some area of music under the supervision of music faculty. If the project warrants, public performance (i.e., recital) will be required. Faculty approval.
NONVIOLENCE (NV)

NV-101 INTRO NONVIOLENCE/CONFLICT RES (3 Credits)
Nonviolence may be regarded as a means, an end, or a way of life. This course examines the proponents, philosophies and techniques of nonviolent action in the resolution of personal interpersonal, societal, and international conflicts. Mohandas Gandhi and Martin Luther King Jr. are among the proponents of nonviolence studied in the course. In addition, the qualities, attitudes and roles of nonviolent activists are identified through studies of the nature of power and the methods and dynamics of nonviolent action.

NV-102 VIOLENCE:CAUSES/EFFECTS (3 Credits)
Is violence inescapably part of the human condition? Can anything be done to reduce violence in one's personal life, in community life, in international relations? This course considers the nature of violence and its biological, sociological and psychological roots. It examines the various effects of violence on individuals, communities and states in times of war and peace. Finally, the course explores some ethical, spiritual and political approaches to reducing violence.

NV-203 MARTIN LUTHER KING, JR. (3 Credits)
This course examines the life and philosophy of Martin Luther King Jr., including the historical context of his work, the basis for his religious beliefs, his commitment to nonviolence, his work for civil rights and his work against the Vietnam War and poverty.

NV-301 PHILOSOPHY OF NONVIOLENCE (3 Credits)
This course explores in a seminar format the following themes: the theoretical underpinnings of nonviolence as a way of life and as a political and social strategy; the seminal thinkers and writers in the development of nonviolence; the moral basis, if any, for nonviolence; whether nonviolence itself can serve as a moral basis for other theories; the criticisms raised against theorists and practitioners of pacifism and nonviolence; the defenders and critics of the just war tradition; and the theoretical differences between pragmatic nonviolence and principled nonviolence.

NV-303 JUSTICE & PEACE IN THE FRANCISCAN TRAD (3 Credits)
This course focuses on understanding the rights and dignity of the individual employing Franciscan ideas and values and the principles of Catholic Social Teaching. It will include a focused study of encyclicals and pastoral letters by church leaders on social issues. Social justice themes will be paralleled with Franciscan Values as found in early Franciscan sources. Integrated with the course work will be a service-learning or advocacy project.

Prerequisite(s): Take CLAR-206 CLAR-207

NV-303H JUSTICE & PEACE IN THE FRANCISCAN TRAD (3 Credits)
This course focuses on understanding the rights and dignity of the individual employing Franciscan ideas and values and the principles of Catholic Social Teaching. It will include a focused study of encyclicals and pastoral letters by church leaders on social issues. Social justice themes will be paralleled with Franciscan Values as found in early Franciscan sources. Integrated with the course work will be a service-learning or advocacy project.

Prerequisite(s): Take CLAR-206 CLAR-207

Restrictions: RG.HON

NV-310 SP.STY IN NON VIOLENCE (3 Credits)
An intensive study of a specific person, issue, or movement related to nonviolence. The content of the course will be announced prior to the semester during which it is offered. The course may be retaken provided the content of the course has changed.

NV-310AD THE DEATH PENALTY (3 Credits)

NV-358 THE PHILOSOPHY OF GANDHI (3 Credits)
The Philosophy of Gandhi course introduces students to Gandhi's metaphysical views about the nature of truth and reality as well as to his views on ethics and his political philosophy, on how human beings should conduct themselves as individuals and as a community. The course will critically examine the various vows required of members of Gandhi's community and the philosophical arguments Gandhi offered for requiring such vows. Finally, the course will examine critically the connection between the personal and political aspects of Gandhi's thought.
NUR-301 ADVANCED ADULT ASSESSMENT (3 Credits)
Students will be challenged to further their knowledge of the nursing process and apply advanced assessment skills to gauge illness management. Students will learn about acute and chronic illnesses and strategies to promote health and wellness while balancing the demands of efficiency on quality care. Students will also practice self-awareness and self-management during discussions of spirituality and palliative care. Hands-on practice time to learn skills will take place followed by reflection and debriefing during some face-to-face classes.
Restrictions: RG.NUR

NUR-302 COMMUNITY HEALTH WITH CLINICAL (6 Credits)
Community health will allow students to gain an understanding of outpatient nursing opportunities currently and trending for the future. Students will spend time with nursing faculty for traditional and distance education lectures and activities as well as work with community health nurses to learn their role in providing care to diverse populations. Projects and assignments will focus on diverse populations that have been historically disenfranchised or socially marginalized locally and globally to provide students with a firm foundation in caring for these populations.

NUR-303 TRANSITIONS IN CARE WITH CLINICAL (6 Credits)
Adults who suffer from a variety of health conditions often need health care services in various settings to meet their many needs and thus transitions in care will provide a firm foundation in this unique patient-centered process. In class, students will discuss both inpatient and outpatient nursing roles and the varied opportunities Registered Nurses (RNs) have to support patients during this transition. Clinical experiences are also a requirement of this course to allow for students to work hands-on with outpatient providers and coordinators to care for diverse populations.
Prerequisite(s): Take NUR-301, NUR-302

NUR-304 INFORMATICS (3 Credits)
This online course will challenge students to build upon previously learned and practiced methods of technology application in healthcare. Students will engage in practicing technology application in documentation practices with electronic health records as well as researching futuristic tactics. Students will be challenged to reflect on current technology skills and to assess their personal abilities to keep up with this constantly evolving healthcare trend.

NUR-401 NURSING THEORY & PROFESSIONALISM (3 Credits)
This online course will offer Registered Nurses (RNs) a look at the theories that surround the profession of nursing in past and present while challenging students to connect practice to those theories. Students will research theories in nursing as well as other disciplines while working towards a better understanding of how theory and practice link. Professionalism will be emphasized through the review of the history of the nursing profession, current trends in healthcare, healthcare policy, and the vast roles nurses fill. Course assignments emphasize professional and academic writing and presentation.

NUR-402 LEADERSHIP WITH INTERNSHIP (4 Credits)
An examination of various theories, styles, and designs in healthcare leadership will be reviewed to develop awareness of methodologies for leading the future. Self-management and relationship management will be practiced to promote interdisciplinary teamwork. Topics for discussion and reflection such as followership, change, conflict resolution, time management, effective communication, decision-making techniques, healthcare policy, and collaborative care will be included. Students will also be paired with a preceptor in an advanced nursing position for internship experiences.
Prerequisite(s): Take NUR-302

NUR-403 EVIDENCE-BASED PRACTICE (2 Credits)
This online course will challenge students to become consumers of healthcare research and data with an emphasis on evidence-based nursing practice and scholarly exchange. Topics to be reviewed include using healthcare databases, evidence-based models, infection control, value-based care, quality care, and spirit of inquiry.

NUR-9999 NURSING ELECTIVE (3-30 Credits)
This course introduces students to the major theories of social and political organization in the western philosophical tradition. Special attention is paid to the principles which inform our evaluation of societies and their practices. Such principles include peace, justice, liberty, human rights, the public interest and the idea of a common good. The aim of this course is to give students an opportunity to develop a critical understanding of such theories and values, and to encourage an enlightened and principal participation in the public discourse of a democratic society.

**PHIL-301 ETHICS (3 Credits)**

The aim of this course is to give students a deeper understanding of some of the fundamental issues and perspectives regarding morality that were introduced in Clare 304 (The Good Life). Topics include the source, range, and truth-value of moral claims, the existence of moral facts, classic and contemporary normative moral theory, value theory, moral reasoning, and descriptive studies of moral decision-making and action.

**PHIL-301A PHILOSOPHY OF NONVIOLENCE (3 Credits)**

An intensive study of a special philosopher, a philosophical movement or a philosophical issue. The content of the course will be announced prior to the semester at which it is offered. The course may be retaken provided the content of the course has changed.

**PHIL-310 SPECIAL STUDIES IN PHIL. (3 Credits)**

An intensive study of a special philosopher, a philosophical movement or a philosophical issue. The content of the course will be announced prior to the semester at which it is offered. The course may be retaken provided the content of the course has changed.

**PHIL-310A PHILOSOPHY & LITERATURE (3 Credits)**

**PHIL-310AA WOMEN AND THE LAW (3 Credits)**

**PHIL-310AB 'THE WAY OF UNKNOWING' (3 Credits)**

**PHIL-310AC THE BILL OF RIGHTS (3 Credits)**

**PHIL-310AD THE DEATH PENALTY (3 Credits)**

**PHIL-310AE PHILOSOPHY OF AGING (3 Credits)**

**PHIL-310AF MODERN ART AND THEORY (3 Credits)**

**PHIL-310AG SP STUDIES: ENVIRONMENTAL ETHICS (3 Credits)**

**PHIL-310AH SP TOPEVIL IN MODERN THOUGHT (3 Credits)**

**Restrictions:** RG.HON

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This course introduces students to the major theories of social and political organization in the western philosophical tradition. Special attention is paid to the principles which inform our evaluation of societies and their practices. Such principles include peace, justice, liberty, human rights, the public interest and the idea of a common good. The aim of this course is to give students an opportunity to develop a critical understanding of such theories and values, and to encourage an enlightened and principal participation in the public discourse of a democratic society.

**PHIL-221 GOOD SOCIETY (3 Credits)**

This course introduces students to the major theories of social and political organization in the western philosophical tradition. Special attention is paid to the principles which inform our evaluation of societies and their practices. Such principles include peace, justice, liberty, human rights, the public interest and the idea of a common good. The aim of this course is to give students an opportunity to develop a critical understanding of such theories and values, and to encourage an enlightened and principal participation in the public discourse of a democratic society.

**Restrictions:** RG.HON

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**PHIL-310A PHILOSOPHY & LITERATURE (3 Credits)**

**PHIL-310AA WOMEN AND THE LAW (3 Credits)**

**PHIL-310AB 'THE WAY OF UNKNOWING' (3 Credits)**

**PHIL-310AC THE BILL OF RIGHTS (3 Credits)**

**PHIL-310AD THE DEATH PENALTY (3 Credits)**

**PHIL-310AE PHILOSOPHY OF AGING (3 Credits)**

**PHIL-310AF MODERN ART AND THEORY (3 Credits)**

**PHIL-310AG SP STUDIES: ENVIRONMENTAL ETHICS (3 Credits)**

**PHIL-310AH SP TOPEVIL IN MODERN THOUGHT (3 Credits)**

**Restrictions:** RG.HON

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This course focuses on the three traditional objects of metaphysical inquiry: God, Person and World. At least two metaphysical traditions are compared: the Christian metaphysical tradition and a modern (contemporary) non-Christian tradition. The overall objective is to challenge students’ cultural presuppositions and to guide their attempt to develop a consistent account of the relation between God, Person and World.
PHIL-310AK SP TOPEVIIL IN MODERN THOUGHT (3 Credits)
PHIL-310AL Sp Top: Existence & Being (3 Credits)
PHIL-310AM Sp Top: Social and Political Philosophy (3 Credits)
PHIL-310AN SP TOP CJ THEORY/PRACTICE (3 Credits)
PHIL-310B PHILOSOPHY OF FILM (3 Credits)
PHIL-310C PHILOSOPHY AND CULTURE (3 Credits)
PHIL-310D THE SIXTIES (3 Credits)
PHIL-310E 20TH CENTURY ETHICS (3 Credits)
PHIL-310F FRANCISCAN PHILOSOPHY (3 Credits)
PHIL-310G CONTEMP. ETHICAL & POL. ISSUES (3 Credits)
PHIL-310I CONTEMPORARY EUROPEAN (3 Credits)
PHIL-310J PHILOSOPHY OF ST. BONA (3 Credits)
PHIL-310K NIETZSCHE (3 Credits)
PHIL-310L CONTEMPORARY METAETHICS (3 Credits)
PHIL-310M PHIL OF JOHN DUNS SCOTUS (3 Credits)
PHIL-310ME MEDICINE, ETHICS & LAW (3 Credits)
PHIL-310MEH MEDICINE, ETHICS & LAW HONORS (3 Credits)
Restrictions: RG.HON
PHIL-310N FEMINIST PHILOSOPHY (3 Credits)
PHIL-310P ENVIRONMENTAL PHILOSOPHY (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310PW SP TOP: FICTION & POSSIBLE WORLDS (3 Credits)
PHIL-310Q GANDHI & KING (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310Q SP TOP: OPPRESSION & PRIVILEGE (3 Credits)
PHIL-310R EPISTEMOLOGY:SELECTED TOPICS (3 Credits)
PHIL-310S PHIL OF ST. THOMAS AQUINAS (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310T PHILOSOPHY OF ECONOMICS (1-4 Credits)
PHIL-310U ETHICS (3 Credits)
PHIL-310V ETHICAL THEORY (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310W METAPOLITICS (3 Credits)
PHIL-310X MORAL THEORY (3 Credits)
PHIL-310Y THE CONTEMPLATIVE LIFE (3 Credits)
PHIL-312 SYMBOLIC LOGIC (3 Credits)
This course is designed to introduce students to formal languages and to the relation between logic and language. Topics covered include: symbolization, validity, soundness, truth-tables, truth-connectives, formal proof, sentential logic, quantifiers, and predicate logic.
PHIL-316 PHILOSOPHY OF MIND (3 Credits)
An examination of various views of the nature of a person and the philosophical issues and problems which arise within these views. Includes such topics as the mind/body problem, freedom versus determination, the self and personal identity, action theory and the concepts of philosophical psychology.
Prerequisite(s): Take PHIL-210
PHIL-317 PHILOSOPHY OF RELIGION (3 Credits)
An intensive investigation of the nature and foundations of religion, taking into consideration such ideas as God, human destiny, worship, faith and revelation. Considering the mainstream of religious thought, particularly the Judeo-Christian tradition, this course examines contemporary approaches to religion and theology, existentialism, naturalism and analysis.
PHIL-318 AESTHETICS (3 Credits)
An introduction to the problems of aesthetics and the philosophy of art as treated by traditional and contemporary authors; the nature and structure of art, the aesthetic experience, the evaluation and criticism of works of art.
PHIL-319 HUMAN IMAGES (3 Credits)
A literary and philosophical study of diverse views of man and the human situation, principally as reflected in western literary classics.
PHIL-320 EXISTENTIALISM (3 Credits)
A critical study of philosophical and literary representatives of the existentialist movement. The origins of existentialism in the 19th century as well as its formulations in the 20th century are considered. Authors covered include Kierkegaard, Nietzsche, Sartre, Camus, Kafka, Hesse and others.
PHIL-324 MOCK TRIAL (3 Credits)
A course for students interested in participating in the annual National Intercollegiate Mock Trial Competition and for those who simply want to know more about the American trial process. The overall objective of the course is to acquaint students with the fundamental process of the adversarial system of justice, including the basic rules of trial procedure and evidence.
PHIL-325 PHILOSOPHY OF LAW (3 Credits)
A critical analysis of the basic theories of law and of the philosophical systems upon which they are based. Special attention will be paid to particular problems in the philosophy of law which are relevant to the contemporary social and political situation.
Prerequisite(s): take PHIL-104, PHIL-104H, PHIL-105 or CLAR-104
PHIL-326 LEGAL REASONING (3 Credits)
An examination of the principles and maxims that govern judicial reasoning through intensive analysis of selected statutes, judicial opinions and leading articles on the topic of legal reasoning. Students will be taught how to brief cases and will be exposed to the Socratic question-answer method of teaching frequently used in law school.
PHIL-327 LEGAL ETHICS (3 Credits)
An exploration of moral issues inherent in the practice of law, such as the limits of the duty of loyalty to one’s client, confidentiality, lawyer advertising, the duty to make legal services available to all citizens, plea-bargaining, the use of unfair tactics, conflicts of interest and the extent to which the lawyer is subject to different moral norms than the average citizen. Students will learn basic legal research skills which can be employed to research and evaluate major issues of legal ethics.
Prerequisite(s): PHIL-104
PHIL-328 PARALEGAL INTERNSHIP (3-6 Credits)
The internship is designed to provide familiarity with aspects of the American legal system that will in turn form a practical basis for philosophical evaluations of that system. Each intern will be expected to serve 12 hours per week, usually for two consecutive semesters. Interns will be introduced to key legal concepts, principles and issues operating in various areas of law, and will be taught basic research skills. The particular areas of training will be a function of the interest and expertise of supervising attorneys.
PHIL-329 PARALEGAL INTERNSHIP (3 Credits)
The internship is designed to provide familiarity with aspects of the American legal system that will in turn form a practical basis for philosophical evaluations of that system. Each intern will be expected to serve 12 hours per week, usually for two consecutive semesters. Interns will be introduced to key legal concepts, principles and issues operating in various areas of law, and will be taught basic research skills. The particular areas of training will be a function of the interest and expertise of supervising attorneys.

PHIL-330 BUSINESS ETHICS (3 Credits)
This course is designed as a critique of the business enterprise. It teaches recognition of ethical problems in the business and proposes methods toward their solution. Topics discussed include whistle-blowing, issues in marketing and advertising, consumer rights, ecological issues and employee and management issues. 
Prerequisite(s): TAKE PHIL-104

PHIL-331 PHILOSOPHY OF ECONOMICS (3 Credits)
A philosophical investigation of the concepts, methods and implications of economic theory. Special attention will be paid to conflicting assumptions concerning social organization, individual rationality and values in alternative economic theories. The course will also consider the evaluation of economic policies and economic system from an ethical perspective.

PHIL-332 SOC. & ECON. JUSTICE (3 Credits)
This course will begin an examination of various theories of justice. A liberal view like that of John Rawls, a libertarian view like that of Robert Nozick and a socialist view like that of Karl Marx will be carefully examined. The second part of the course will be spent examining and discussing various case studies. We will consider how our understanding of different theories of justice can help us resolve the conflicts and disputes that arise in these case studies. Also, some attention will be paid to contemporary critiques of American society.

PHIL-332A SOCIAL & ECONOMIC JUSTICE (3 Credits)

PHIL-333 NEWS MEDIA ETHICS (3 Credits)
A practical analysis of the ethical problems of the news media. Teaches recognition of ethical problems of the press and approaches to their solution. Designed to meet the concerns and interests of students planning a career in any branch of the news media.

PHIL-334 WAR AND MORALITY (3 Credits)
A philosophical investigation of many of the issues surrounding modern war. Topics for analysis and discussion include the justice of war (jus ad bellum), the justice of the conduct of war (jus in bello), the principles of double effect and military necessity, obedience to superior orders, justice of nuclear war, concept of nuclear deterrence and pacifism.

PHIL-335 PHIL. OF SCIENCE & MEDICINE (3 Credits)
The aim of this course is to introduce the student to the conceptual and methodological aspects of modern science and medicine. Special emphasis will be given to the relation between science, ethics, and medicine and to the analysis of such medical concepts as 'health' and 'disease.'

PHIL-336 PHILOSOPHY OF PSYCHOLOGY (3 Credits)
A critical reflection on the methods, principles and basic concepts of contemporary psychology. Particular attention is given to the special problems involved with a specific study of human action.

PHIL-337 DEATH AND DYING (3 Credits)
A study of the philosophical aspects of death and dying, as they rise out of a personal confrontation with one’s own feelings and attitudes toward death.

PHIL-338 HEALTH CARE ETHICS (3 Credits)
An exploration of the ethical and value issues inherent in modern medicine with particular emphasis on the issues of euthanasia, suicide, informed consent, abortion, truth-telling and confidentiality, allocation of scarce resources and care of the dying. 
Prerequisite(s): PHIL-104

PHIL-339 PHILOSOPHY OF LOVE & SEX (3 Credits)
A critical examination of various problems in the areas of sexual language, monogamous marriage and its alternatives, pre-marital and extra-marital sex, the logic of deviation, feminism, pornography, abortion and the concept of love.

PHIL-340 APPLIED ETHICS INTERNSHIP (1-3 Credits)
The course allows qualified students to gain supervised experience in an area where ethical questions are faced on a daily basis. The internship currently includes work as a para-medical intern and as an assistant to a newspaper editor.

PHIL-341 ENVIRONMENTAL ETHICS (3 Credits)
An advanced, applied ethics seminar which examines three particular moral issues directly implied in our use (and abuse) of the natural environment: Distributive justice with reference to distant people intergenerational justice with reference to future generations and the rights of animals. A basic ethics course is presupposed. Students will be expected to participate in seminar discussions, to prepare brief papers summarizing articles in the philosophy journals such as Philosophy Today and Environmental Ethics and to present and defend, in the seminar, a position paper on some aspect of one of the three issues noted above. 
Prerequisite(s): Take PHIL-104

PHIL-342 ETHICAL DIMENSIONS OF FRANCISCAN ECON (3 Credits)
In the liberal arts educational tradition of the Middle Ages, economics and economic theory was treated as a subset of ethics. This course aims to explore the unique contribution to economic thought made by the Franciscan movement in the High and Late Middle Ages. Emerging at the same time that Europe was undergoing a profound transformation from a gift to a mercantile economy (that is, at the dawn of modern capitalism), the Franciscan tradition proposed an alternative (evangelical) vision of how human beings can live justly and ethically in a complex world in which money and the ownership of property play such critical roles in human social relations. In short, this course will examine the various aspects of the medieval Franciscan notion of poverty and its meaning and relevance for medieval as well as contemporary society.

PHIL-344 PHILOSOPHY OF AGING (3 Credits)
This course teaches students to identify and analyze the fundamental concepts used by people in thinking about aging - concepts such as health, disease, autonomy and dependence, dignity, wisdom, natural and artificial, well-being and meaning - and to critically assess the normative roles of, and presuppositions underlying, such concepts.

PHIL-345 VALUES AT THE END OF LIFE (3 Credits)
This course deals with the fundamental value issues faced by dying people and those who care for them. After a brief overview of physical and medical aspects of dying, the focus of the course is on the psychosocial and philosophical factors that can contribute to dying well. Those factors include autonomy, relatedness and paternalism, communication and connection, and meaning and transcendence.
PHIL-358 THE PHILOSOPHY OF GANDHI (3 Credits)
The philosophy of Gandhi course introduces students to Gandhi's metaphysical views about the nature of truth and reality as well as to his views on ethics and his political philosophy, on how human beings should conduct themselves as individuals and as a community. The course will critically examine the various vows required of members of Gandhi's community and the philosophical arguments Gandhi offered for requiring such vows. Finally, the course will examine critically the connection between the personal and political aspects of Gandhi's thought.

PHIL-358A INDEPENDENT STUDY (3 Credits)
PHIL-358B INDEPENDENT STUDY (1-6 Credits)
PHIL-358C IND STY: ANCIENT & MEDIEVAL PHILOSOPHY (1-6 Credits)
PHIL-358D IND STY: ETHICAL EVALUATION OF ROBOTICS W MENTAL & PHYSICAL CARE OF THE ELDERLY (3 Credits)
PHIL-358E SP: STY IN ENVIRONM'L JUSTICE (3 Credits)

PHIL-405A SP:TOP:SCOTUS AND OCKHAM (3 Credits)
PHIL-405B SP: GOD, CREATION AND PERSON (3 Credits)
This introductory course in Franciscan Philosophy establish a foundational approach to the fundamental characteristics of the Franciscan School in both its wisdom and scientific dimensions. It will serve as an introduction to the academic discipline of philosophy in general, especially the role of argument, and in particular to issues of epistemology, metaphysics, natural theology, the nature and limits of religious language, the problem of evil, and philosophic anthropology. Where possible, the Franciscan approach to these philosophical issues will be presented and contrasted with the Dominican tradition.

PHIL-405C Franciscan Philosophy: Theory of Values (3 Credits)

PHIL-406 PHIL.OF ST.THOMAS AQUINAS (3 Credits)
This course is a general course on the philosophy of St. Thomas Aquinas (1225-1274) and will treat as many of the general areas of Aquinas' thought as possible. Among the topics to be considered are the metaphysics of being; God and His Nature; the human person; intellect and will; the end of the human person; happiness; the virtues; law and the political community.

PHIL-407 HISTORY OF MODERN PHILOSOPHY (3 Credits)
An investigation of the leading trends in 17th and 18th century philosophy from Descartes to Kant.

PHIL-409 NIETZSCHE (3 Credits)
This course will examine Nietzsche's seminal writings with an eye to their influence on contemporary philosophy. Such central topics in Nietzsche as 'the death of God,' 'the will to power,' 'the Overman,' and 'nihilism' will be addressed as well as the appropriation of Nietzsche in 'post-modern' thought.

PHIL-413 AMERICAN PHILOSOPHY (3 Credits)
An introduction to the chief American philosophers: Emerson, Thoreau, Pierce, Royce, James and Dewey.

PHIL-450 INDEPENDENT STUDY (1-6 Credits)
PHIL-450A INDEPENDENT STUDY (3-6 Credits)
PHIL-450B INDEPENDENT STUDY (1-6 Credits)
PHIL-450C IND STY: ANCIENT & MEDIEVAL PHILOSOPHY (1-6 Credits)
PHIL-450D IND STY: ETHICAL EVALUATION OF ROBOTICS W MENTAL & PHYSICAL CARE OF THE ELDERLY (3 Credits)
PHIL-450E SP: STY IN ENVIRONM'L JUSTICE (3 Credits)
PHIL-450F TRANSCENDENTALISM: EMERSON & THOREAU (3 Credits)
Independent Study Directed reading and research.

PHIL-498 SENIOR RESEARCH SEMINAR (3 Credits)
This course covers research methodologies and skills, and provides the philosophy major with both structural support and mentoring for developing a successful 'senior essay' in order to satisfy the department's comprehensive requirement for graduation.
PHED-ELEC AEROBIC DANCING (1 Credit)
PHED-101 FOUNDATIONS IN PHYSICAL ACTIVITY (3 Credits)
An introductory course for Physical Education and Sport Studies majors that will explore history and trends surrounding health related physical activity as a sport. The diverse professional and scholarly career choice available within the disciplines of sport studies and physical education will be discussed with an emphasis on professional/clinical practice within human development, human movement, coaching, sport management and the teaching professions.

PHED-101A FOUND. OF PHYSICAL EDUCATION (3 Credits)
PHED-102 GYMNASTICS (3 Credits)
This course is an integration of movement education gymnastics and Olympic style gymnastics using the medium tumbling and balance skills, small equipment and large equipment. Students will polish their skill abilities, learn to teach and learn to teach spotting techniques. Emphasis will be placed upon cooperative learning creativity and problem solving. Student will develop a working portfolio. Ability level is beginner to intermediate.
Restrictions: RGM.113

PHED-104 DANCE & AESTHETIC ACTIVITIES: LEARNING TO MOVE, LEARNING TO TEACH! (3 Credits)
This course focuses on common and specialized content knowledge used in the performance and instruction of a variety of dance forms including aerobic, mixers, square and social dances. It is designed for beginning students with little or no previous experience in dance and will focus on exploring history and cultural meanings of dance, individual movement styles and dance as creative and aesthetic practice. In addition, this course will explore basic kinesiological and physiological principles underlying dances as aesthetic practice.
Restrictions: RGM.113

PHED-105 EARLY CHILDHOOD MOTOR DEV. (3 Credits)
This course will provide theory and content relative to infant and early childhood gross motor development. Course content will include the developmental perspective, physical growth and maturation and early motor behavior from birth to 5-years. Motor development sequences will be studied in depth comparing infants and young children without and with developmental delays. Students will learn to plan developmentally appropriate lessons for the field experience of this course, Kinder-Kinetics. The field experience will occur each Thursday throughout the semester involving preschool children, including those with disabilities.

PHED-107 HEALTH-RELATED FITNESS/WELLNESS (3 Credits)
This course offers an in-depth look into four components of health-related physical fitness and their relationship to the development of personal fitness and wellness. The focus will be on principles of training, teaching and testing techniques, various models and modes of exercise, nutrition trends related to performance. Students will learn how to develop fitness programs as part of the public school physical education curriculum. This course will include an experimental components. Students will be exposed to active learning through classroom instruction and vigorous physical activity.
Restrictions: RGM.113

PHED-108 SPORTS & GAMES, LEARNING TO MOVE, LEARNING TO TEACH! (3 Credits)
This course focuses on the common and specialized content knowledge emphasized in the teaching and coaching of select games and sports. In this course, students will be assessed on their knowledge of rules, strategies and techniques of three select games and sports as well as their capacity to demonstrate competent motor-skill performances during game play. Students will also learn to systematically analyze sport skill performances, structure appropriate practice sessions and provide congruent feedback to students and athletes. Activity-specific measures of physical fitness will also be collected during this course.

PHED-109 PERSONAL PERFORMANCE ACTIVITIES: LEARNING TO MOVE; LEARNING TO TEACH! (3 Credits)
This course focuses on the common and specialized content knowledge emphasized in the teaching of and participation in select personal performance activities. In this course, students will be assessed on their knowledge and application of skills and their ability to seek personal challenge, while maintaining personal (and partner of group) safety in three select personal performance activities (e.g., in-line skating, indoor wall climbing, tumbling, etc.). Students will also learn to systematically analyze skill performances, structure appropriate practice sessions and provide congruent feedback to fellow participants. Activity-specific measures of physical fitness will also be collected during this course.

PHED-110 OUTDOOR PURSUITS: LEARNING TO MOVE, LEARNING TO TEACH! (3 Credits)
This course focuses on the common and specialized content knowledge emphasized in the teaching of and participation in various outdoor pursuits. In this course, students will be assessed on their application of skills, their capacity for personal challenge and decision-making; and their ability to apply safe procedures, etiquette and other conventions common to the activities covered in class (e.g., Canoeing, Backpacking/ Camping, Orienteering, Snowshoeing, Cross-Country Skiing) Activity-specific measures of physical fitness will also be collected during this course.

PHED-111 FITNESS ACTIVITIES: LEARNING TO MOVE, LEARNING TO TEACH! (3 Credits)
This course focuses on the common and specialized content knowledge emphasized in the teaching of and participation in fitness activities. In this course, students will be assessed on their application of knowledge and skills associated with three fitness activities: weight training, aerobic training or yoga. Students will also learn to systematically analyze skills and their ability to seek personal pursuits. In this course, students will be assessed on their application of knowledge and skills associated with three fitness activities: weight training, aerobic conditioning and yoga. Students will also learn to systematically analyze associated skills, organize exercise workout routines and provide congruent feedback associated with correct technique. Activity-specific measures of physical fitness will also be collected during this course.

PHED-201 INDIVIDUAL & DUAL SPORTS (3 Credits)
A two-course sequence focused on the basic instruction of movement activities. Activities may include archery, badminton, cross-country skiing, cycling, golf, tennis, weight training or yoga. This course may require weekend meeting times. In some instances, students will be responsible for providing their own equipment. Some lessons may require students to organize personal transportation and to from off-campus personal instructional venues (e.g. local driving range, state park, etc.). Additional fees for equipment rental or admissions may be required of students.
Restrictions: RGM.113
PHED-202 INDIVIDUAL/DUAL SPORTS PART 2 (3 Credits)
A two-course sequence focused on the basic instruction of movement activities. Activities may include archery, badminton, cross-country skiing, cycling, golf, inline skating, orienteering, Tai Chi, tennis, weight training or yoga. This course may require weekend meeting times. In some instances, students will be responsible for providing their own equipment. Some lessons may require students to organize personal transportation and to from off-campus personal instructional venues (e.g. local driving range, state park, etc.). Additional fees for equipment rental or admissions may be required of students.
Restrictions: RGM.113

PHED-203 PHYSICAL ED. CURRICULUM (3 Credits)
The study of developmentally appropriate physical education curriculums for elementary, middle and high school programs. Historical and contemporary models be examined. Focus will be provided toward designing curricula based upon the NASPE National Standards for Physical and the New York State Learning Standards for Physical Education.
Restrictions: RGM.113

PHED-208 PREVENTION/CARE INJURIES (3 Credits)
Prevention and emergency care of injuries incurred in physical education and athletic activities in the environment of children and young adults. A track program including the review of emergency medical treatment and a survey of principles related to the mechanics of athletic injury and the scientific basis of conditioning of specific injuries and their rehabilitation are addressed. Specialized conditioning programs of fitness are discussed.
Prerequisite(s): Take BIO-212

PHED-209 MOTOR LEARNING (3 Credits)
This course is designed to provide a basic introduction to the field of motor learning. The focus will be toward skill acquisition with primary consideration given to the learning of skills, factors that influence skill learning, and the effectiveness of various instructional strategies. This course shall be directed toward individuals preparing for a career in which motor skill instruction is an important part of the job, as is the case of physical education teachers, coaches, dance instructors, physical and occupational therapists, athletic trainers, and instructors in military and industrial training settings.

PHED-301 TEAM SPORTS-PART 1 (3 Credits)
A two-course sequence where students learn to teach the fundamental skills, game strategy, officiating techniques, and keeping statistics for team handball, soccer, volleyball, softball, track and field. Students will be introduced to the Sport Education Model.
Restrictions: RGM.113

PHED-302 TEAM SPORTS-PART 2 (3 Credits)
A two-course sequence where students learn to teach the fundamental skills, game strategy, officiating techniques, and keeping statistics for team handball, soccer, volleyball, softball, track and field. Students will be introduced to the Sport Education Model.
Restrictions: RGM.113

PHED-303 ELEMENTARY SCHOOL METHODS (3 Credits)
Designed for physical education majors, this course allows students to study fundamental motors skills/fundamental motor patterns, developmentally appropriate class organization and management techniques, instructional techniques across the preK-6 grades for all methods with the Direct. Combination and Indirect Teaching Styles. Students will learn techniques to integrate subject matter from other academic areas, as well as how to individualize instruction. Take in Elementary Field Block. Students will be evaluated on a series of examinations, lesson plans, teaching assignments, and a working portfolio.
Restrictions: RGM.113

PHED-304 SECONDARY SCHOOL METHODS (3 Credits)
This course provides the student with a comprehensive and practical model for developing principles, program content, motivation, class organization and management techniques, instructional teaching methods and style along with and materials specified to teaching physical education in middle and high schools. Taken in Secondary Field Block. Students will be evaluated on a series of examinations, lesson plans, teaching assignments and portfolio.
Restrictions: RGM.113

PHED-306 ASSESSMENT (3 Credits)
This course will cover various forms of criterion reference and norm reference assessments specific to physical education k-12. Focus will be given toward authentic assessment, and matching assessments to the NASPE and New York State Learning Standards for Physical Education. Students will learn to design and administer developmentally appropriate assessments to measure the psychomotor, cognitive and affective domains involving video and computer assisted technology.
Prerequisite(s): MATH-107
Restrictions: RGM.113

PHED-307 ATHLETIC COACHING (3 Credits)

PHED-307A COACHING OF FOOTBALL (3 Credits)

PHED-307B COACHING BASEBALL/SOFTBALL (3 Credits)

PHED-307C COACHING OF SOCCER (3 Credits)

PHED-3078 COACHING BASEBALL/SOFTBALL (3 Credits)
This course deals with history, rules, regulations and recommendations; coaching methods, performance skills; technical information; organization and management; methods of training, conditioning; equipment, officiating, and coaching responsibilities.

PHED-307C COACHING OF SOCCER (3 Credits)
This course deals with history, rules, regulations and recommendations; coaching methods, performance skills, technical information; organization and management, methods of training, conditioning; equipment, officiating and coaching responsibilities.

PHED-308 THE COACHING OF BASKETBALL (3 Credits)

PHED-308A COACHING OF BASKETBALL (3 Credits)
This course deals with history, rules, regulations and recommendations, coaching methods, performance skills, technical information, organization and management, methods of training, conditioning, equipment, officiating and coaching responsibilities.

PHED-308B COACHING OF TENNIS (3 Credits)
This course deals with the history, rules, regulations and recommendations, coaching methods, performance skills, technical information, organization and management, methods of training, conditioning; equipment, officiating and coaching responsibilities.
PHED-308C THEORY/TECHNIQUES OF COACHING (3 Credits)
This course includes the history, objectives, rules, regulations and policies of interscholastic sports; coaching methods, technical information (offense, defense, strategies), and national coaching standards; organization and management of practices; special training and conditioning of athletes in the specific sport; care and fitting of equipment; special safety precautions, and officiating methods. Harassment issues specific to coaches, coaching, and athletes will be addressed.

PHED-308D COACHING OF VOLLEYBALL (3 Credits)
This course deals with history, rules, regulations and recommendations, coaching methods, performance skills; technical information; organization and management; methods of training; conditioning; equipment, officiating and coaching responsibilities.

PHED-309 NUTRITION (3 Credits)
Scientific concepts and principles of nutrition, nutrition education, and nutrition biochemistry, specific to athletic performance, fitness, and personal wellness of exercising populations will be the focus of this course, which is designed for individuals pursuing careers in athletics and fitness-related fields. Scientific applications based upon laboratory applications will cover the scope and sequence of nutrition for athletic performance and nutrition disorders specific to athletics, fitness and wellness.

PHED-309A ADVENTURE EDUCATION (3 Credits)
This course will focus on the ‘hard’ and ‘soft’ skills associated with contemporary outdoor/ adventure education. Activities in the course may include hard skills associated with backpacking, camping, canoeing, orienteering, and/or rock climbing. ‘Soft’ skills covered in this course may include teaching personal responsibility, group decision-making and/or conflict resolution. This course may require weekend meeting times and will require an overnight experience in a backcountry setting. In some instances, there may be additional costs associated with equipment rental, park admissions or transportation. Some off-campus experiences may require students to provide their own transportation to and from various instructional venues.
Restrictions: RGM.113

PHED-310 PHIL/PRINC INTERSCHOLASTIC ATH (3 Credits)
Interscholastic athletics and its role in the total physical and general educational program in today’s schools will be emphasized. National, state and local organizations directly involved with high school athletics will be examined. Legal implications, safety procedures, principles of budgets, records, purchase and care of athletic equipment will be reviewed and discussed. Personal standards for and responsibilities of the coach as a teacher, leader and public person are discussed.

PHED-311 PHYS ACT FOR PERSONS W DISABILITIES (3 Credits)
A course designed to prepare students with the theories and techniques for adapting physical activities in inclusive and alternative settings. Students will study historical and contemporary trends and issues related to programming physical activities for persons with disabilities. Included would be an examination of assessments and the IEP process, parental concerns related to special education, and the nature of the physical, cognitive and emotional/behavioral disabilities. Students will also learn to modify and adapt individual, dual and team sports. Safety concerns will be stressed throughout the course.

PHED-312 BIO-KINESIOLOGY (3 Credits)
A detailed study of biomechanical and kinesiological concepts specific to human movement in physical education and sport. This will include mechanical laws of physics and motor control specific to human movement. The student will learn movement evaluations and analysis techniques.
Prerequisite(s): Take BIO-212
Restrictions: RGM.113

PHED-313 WOMEN IN SPORTS (3 Credits)
This course covers the past, present and future of women and sport, addressing subjects such as women’s sports in ancient Crete, industrial league sport for women, biomedical considerations, and psychosocial dimensions of women’s sports including sociocultural, political, and economic factors that have led to changes in women in sport.

PHED-314 EXERCISE PHYSIOLOGY (3 Credits)
Physiological principles based on the adjustment of the human to exercise are studies with emphasis on neuromuscular activity, circulation, respiration, metabolism, fatigue and fitness.
Prerequisite(s): Take PHED-107, BIO-211 and BIO-212

PHED-314L EXERCISE PHYSIOLOGY LAB (1 Credit)
Physiological principles based on the adjustment of the human to exercise are studies with emphasis on neuromuscular activity, circulation, respiration, metabolism, fatigue and fitness.
Prerequisite(s): Take BIO-101 BIO-211 BIO-212

PHED-399 SPECIAL TOPICS IN HUMAN MOVEMENT (3 Credits)
This course involves intensive study in a particular area or topic related to physical education, sport studies, or a specific movement or somatic experience. The content of the course of the course will be announced prior to the semester in which it will be offered. The course may be taken more than once if the content of the course has changed.

PHED-399A SPECIAL TOPICS: PHYSICAL ACT & AGING (3 Credits)
This course involves intensive study in a particular area or topic related to physical education, sport studies, or a specific movement or somatic experience. The content of the course of the course will be announced prior to the semester in which it will be offered. The course may be taken more than once if the content of the course has changed.

PHED-399C SPECIAL TOPIC: EXERCISE RX FOR SENIORS (3 Credits)
This course involves intensive study in a particular area or topic related to physical education, sport studies, or a specific movement or somatic experience. The content of the course of the course will be announced prior to the semester in which it will be offered. The course may be taken more than once if the content of the course has changed.

PHED-399D SPECIAL TOPIC: THE FEMALE ATHLETE TRIAD (3 Credits)
This course involves intensive study in a particular area or topic related to physical education, sport studies, or a specific movement or somatic experience. The content of the course of the course will be announced prior to the semester in which it will be offered. The course may be taken more than once if the content of the course has changed.

PHED-399E SP TOP: THERAPEUTIC EXERCISE (3 Credits)
PHED-399F Sp Tp: Ldshp/Spec Olympics (3 Credits)
PHED-399G SP TOP: ADV EVALUATION SKILLS/TECHNIQUE (3 Credits)
Recognition and evaluation of injury/illness common to competitive activity. Students will learn techniques required to assess injury/illness for administering first-aid and emergency care. This course expands on topics covered in PHED 208. Excellent primer for students interested in pursuing careers in physical therapy, athletic training and medicine.
Prerequisite(s): Take BIO-211 BIO-212 and PHED-208
Restrictions: RGM.113
PHED-399J SP TOP: PHYSIOLOGY, PSYCHOLOGY & Politics of Food (3 Credits)
What we eat is influenced by a variety of factors: economics, taste, availability, and desire to be healthy. But how much influence do we have over our food choices? This course will explore how the social ecological theory is evident in every food decision we make. Specific foci include: physiology of digestion and absorption with special emphasis placed on the effects of psychology and food allergies/medical conditions; obesity; eating disorders; environment (GMO’s); economics and public health policy. It is suggested that students have taken PHED 309, permission to enroll can be discussed with the professor.

PHED-399K SP TOP: STRENGTH & CONDITIONING (3 Credits)
This course involves intensive study in a particular area or topic related to physical education, sport studies, or a specific movement or somatic experience. The content of the course will be announced prior to the semester in which it will be offered. The course may be taken more than once if the content of the course has changed.

PHED-399L SP TOP: SPORT PSYCHOLOGY FOR COACHES (3 Credits)
This course involves intensive study in a particular area or topic related to physical education, sport studies, or a specific movement or somatic experience. The content of the course will be announced prior to the semester in which it will be offered. The course may be taken more than once if the content of the course has changed.

PHED-399M SP TOP: HEALTH SCIENCE FOR COACHING (3 Credits)
This course involves intensive study in a particular area or topic related to physical education, sport studies, or a specific movement or somatic experience. The content of the course will be announced prior to the semester in which it will be offered. The course may be taken more than once if the content of the course has changed.

PHED-401A ADV. ATHLETIC TRAINING (3 Credits)
This course is designed to give advanced instruction for students wishing to become certified athletic trainers. The course will address clinical evaluation of injuries and illnesses commonly sustained by the competitive athlete. Procedures of all therapeutic modalities commonly used in Sports Medicine and other selected topics on current issues relating to athletics will be explored. 
Prerequisite(s): Take PHED-208, BIO-211 and BIO-212

PHED-403 MOTOR BEHAVIOR: TO LEARN & TO GROW (3 Credits)
This course is designed to introduce common and specialized theoretical knowledge associated with motor learning and motor development (across the lifespan). Students will describe and apply motor learning principles related to the instruction of motor skills common to sport and physical activity. Students will also describe and apply theories and principles related to the acquisition and use of motor skills across the lifespan. During this course students will learn to analyze motor skills through multiple means (e.g., visual observation, technology) in order to provide specific, congruent feedback to enhance student learning. Students will also learn, be assessed on and learn to assess developmentally appropriate performances of fundamental motor skills.

PHED-407 ELEMENTARY METHODS AND MODELS IN PHYSICAL EDUCATION (3 Credits)
This course is designed to prepare physical educators with the groundwork to become successful teachers. This course emphasis will be placed on understanding and acquiring content knowledge, and then conceptualizing and organizing that content for the purpose of instruction. Drawing from the Shape America Standards, students will learn to plan lessons that address the wide range of developmental abilities found in our elementary schools. We will also learn to create and apply task progressions that help children learn fundamental skills. Through practice teaching we will learn to effectively communicate the critical elements of what we teach, assess how well children learn and reflect upon what worked and what did not. In addition to the development of instructional methods, this course will also offer a survey of curriculum models common to elementary physical education and an overview of the curriculum process in New York State. This course will also require structured observations in local public schools, opportunities to shadow and co-teach with area teachers and the completion of projects, such as the Ed-TPO instructional assessment.

PHED-408 SECONDARY METHODS AND MODELS IN PHYSICAL EDUCATION (3 Credits)
The purpose of this course is for physical education teacher candidates to develop knowledge and skills for planning, implementing, and evaluating appropriate and effective physical education programs at secondary and middle school level. Learning experiences will focus on knowledge and skills related to effective instructional strategies, efficient management and organizational principles, and effective class control and motivational techniques specific to teaching physical education for secondary and middle school students. This course also focuses on all processes involved in the design, implementation and practical applications of the curriculum processes in elementary and secondary school physical education. The course has an attached field experience running a total of 60 hours in include observation, shadowing and teaching in an area partner school at the secondary level. Students will gain valuable planning and teaching experiences in many physical education school environments under the tutelage and supervision of certified physical education teachers in authentic instructional contexts.

PHED-411 ASSESSMENT & TECHNOLOGY IN PHYSICAL EDUCATION (3 Credits)
The purpose of this course is for physical education teacher candidates to develop knowledge and skills for planning, implementing, and evaluating appropriate and effective physical education programs at secondary and middle school level. Learning experiences will focus on knowledge and skills related to effective instructional strategies, efficient management and organizational principles, and effective class control and motivational techniques specific to teaching physical education for secondary and middle school students. This course also focuses on all processes involved in the design, implementation and practical applications of the curriculum processes in elementary and secondary school physical education. The course has an attached field experience running a total of 60 hours in include observation, shadowing and teaching in an area partner school at the secondary level. Students will gain valuable planning and teaching experiences in many physical education school environments under the tutelage and supervision of certified physical education teachers in authentic instructional contexts.

PHED-413 DIR. STUDY-COACHING EXPERIENCE (1-3 Credits)
This course provides students the opportunity to do an internship in fields related to physical education and sports studies or health-related professions. 
Restrictions: RGM.113
PHED-413C ADV. DIR. STUDY-INTERNSHIP (1-3 Credits)

PHED-413D DIR STUDY INTERNSHIP II (1-3 Credits)
This course provides students the opportunity to serve an internship in fields related to physical education and sport studies.
Restrictions: RGC.105

PHED-413E DIR. STUDY-KINDERKETICS (1 Credit)

PHED-414 SOCIAL THEORY OF SPORT (3 Credits)
This course will examine sport in the social and political context of contemporary society. Critical theories relating to race, class, gender, ethnicity, faith traditions, economics, and political structure will be examined in the context of our social responsibility in human movement environments. There will be a service component to this course.

PHED-415 Psycho-Social Aspects of Sports and Physical Activity (3 Credits)
The class will focus on a multitude of factors influencing sport, leisure, and motor behavior. Questions of how social psychological variables influence motor behavior and how physical activity affects the psychological make up of an individual will be explored.

PHED-432 INDEPENDENT STUDY (3 Credits)
This course is designed to give the individual an opportunity to work on a one-on-one basis with a professor. Study may be directed toward research involving area schools or agencies, creative projects or seminars. Student responsibilities include: identification of the topic/problem to be studied (prior to registration), selection of a faculty member with whom to work, the development of specific course objectives that may be realistically achieved by the end of the semester (in collaboration with the faculty member) and the summary and analysis of findings (also to be completed by the end of the semester).

PHED-490 PHYS ED STUD.TCH: ELEMENTARY (5 Credits)
Student teaching is the culminating experience in the professional preparation of teachers. The elementary student teaching experience consists of approximately seven weeks of full-time experience in an elementary classroom. Students are expected to: apply developmentally appropriate instruction, develop both long and short term plans to implement curriculum, adapt instruction to meet individual needs, use technology to enhance instruction, develop and administer appropriate assessment strategies, organize and manage the classroom environment, and exhibit the characteristics and ethics of a professional educator.

PHED-491 PHYS ED STUD TCH: SECONDARY (5 Credits)
Student teaching is the culminating experience in the professional preparation of teachers. The secondary student teaching experience consists of approximately seven weeks of full-time experience in a secondary classroom. Students are expected to: apply developmentally appropriate instruction, develop both long and short term plans to implement curriculum, adapt instruction to meet individual needs, use technology to enhance instruction, develop and administer appropriate assessment strategies, organize and manage the classroom environment, and exhibit the characteristics and ethics of a professional educator.

PHED-493 SEMINAR IN PHYSICAL EDUCATION (3 Credits)
This course focuses on professional integrity and right relationships and how they shape our practice as teachers. Emphases include the use of reflection, collaboration and communication, and participation in the physical education professional community. In addition, the course examines ways of gaining access to and helping to sustain community resources, and establishing productive realtionships within the school and community. Finally, this course explores the implementation of various curricula, liability and risk, the use of technology, professionalism, and preparation for the Ed-TPA assessment.
Prerequisite(s): PHED-407, PHED-408, PHED-411
PHYSICAL SCIENCE (PHSC)

PHSC-ELEC ELECTIVE (3 Credits)

PHSC-101 EARTH SCIENCE (3 Credits)
A survey of physical properties and processes of the Earth. The content is
drawn from geology, atmospheric science and oceanography. Topics may
include the motion of the Earth, atmospheric circulation, plate tectonics
and igneous activity and physical properties of the oceans. This course
will not satisfy the natural science requirements for science majors.
Corequisite(s): PHSL-101

PHSC-102 PHYSICAL SCIENCE (3 Credits)
An introductory level course for non-science majors. Physical principles
are discussed at the conceptual level with minimum use of mathematics.
The application of these principles to everyday experiences is stressed.
Among the topics covered are: motion, forces, energy, momentum,
structure of atoms and molecules, liquids, gases, temperature and heat.
This course will not satisfy the science requirement for science majors.

PHSC-105 GEOLOGY (3 Credits)
A survey, with emphasis on physical geology, considering processes
at work on the Earth’s crust, such as glaciation, weathering, mass
movement, water, diastrophism and consideration of rocks and minerals
composing the crust.

PHSC-106 STARS AND STELLAR SYSTEMS (3 Credits)
A survey of the universe beyond our solar system: stars and multiple star
systems, nebulae, galaxies, quasars, pulsars and black holes. Models
of the universe’s origin and modern observing techniques will also be
discussed.
Corequisite(s): PHSC-113L

PHSC-107 THE SOLAR SYSTEM (3 Credits)
How do the planets move through space and indeed what are the planets
like? How did our solar system come into existence? What is our sun like?
These and other questions will be treated in depth in the introduction to
the astronomical aspects of our star system.

PHSC-108 PHYSICS FOR POETS (3 Credits)
This course is intended for non-science majors. It investigates the basic
theories of modern physics after a brief discussion of those classical
ideas that are relevant. Historical, philosophical and social implications
of developments in modern physics are also considered. The course
requires no college mathematics as a prerequisite. This course will not
satisfy the natural science requirements for science majors.

PHSC-109 PHYSICS OF SENSORY PERCEPTION (3 Credits)
The physical and biophysical principles of sensory perception will be
covered. Emphasis will be given to the visual and auditory systems.
Mechanisms of neural transmission and information coding will be
covered. This course will not satisfy the natural science requirement for
science majors.

PHSC-113L ASTRONOMY LABORATORY (1 Credit)
Basic experiments in astronomy illustrating how information is derived
about stars and planets, etc.
Corequisite(s): PHSC-106

PHSC-115 ALTERNATIVE ENERGY SOURCES (3 Credits)
This course is intended for the student who has had an exposure to
the rudiments of science and who is interested in exploring the topic
of energy sources. This course will deal with energy sources which are
state of the art or near state of the art. Each energy will be examined from
the point of view of the physical principles involved and the practical
limitations of the utilization. Discussions where pertinent will also include
hazard analyzes.

PHSC-116 HISTORICAL GEOLOGY (3 Credits)
General principles and the origin of the earth. Attention will be directed
primarily to the nature of physical conditions and the record of life during
the geologic history of the continent of North America. Some treatment
will be given to the areas of Europe, because most major divisions of the
rock succession were first recognized and defined there. Students having
physical geology as an introductory course will be able to tie into a time
sequence many previously associated facts in relation to the age of the
Earth.

PHSC-191 INTRODUCTION TO NATURAL SCIENCE (3 Credits)
An introduction to what we know about the physical universe and how we
have discovered it. The process of scientific discovery is explored using
major discoveries in the history of science as examples. Topics include
the fundamental properties of matter and energy, the nature of chemical
reactions, the use of energy by living things, the nature and property
of DNA and biological evolution among others. The course includes a
combination of lecture and classroom discussion.
Corequisite(s): PHSL-191
PHYSICAL SCIENCE LAB
(PHSL)

PHSL-101 EARTH SCIENCE LABORATORY (1 Credit)
A set of field and laboratory exercises designed to accompany PHSC 101 (Earth Science). An investigation of the ways in which earth scientists (including astronomers, geologists, chemists, meteorologists, oceanographers, and ecologists) study the Earth. Investigations will cover the four major spheres of Earth (lithosphere, hydrosphere, biosphere, and atmosphere). There will be an emphasis on quantitative methods and problem solving throughout.

Corequisite(s): PHSC-101

PHSL-191 INTRODUCTION TO NATURAL SCIENCE LAB (1 Credit)
An introduction to the study of selected phenomena within the natural sciences by means of problem-based laboratory experiences. To make the course both multidisciplinary and interdisciplinary, the various scientific disciplines (physics, chemistry, and biology) are connected through common themes such as energy and the significance of patterns and regularity in nature.

Corequisite(s): PHSC-191
PHYSICS (PHYS)

PHYS-COMP WRITTEN COMPREHENSIVES (0 Credits)

PHYS-103 GENERAL PHYSICS I (3 Credits)
An introductory course in physics for students of science and engineering. Topics include: vectors, statics, dynamics, rotation, conservation laws, vibrations and thermodynamics. Students without calculus admitted with permission of instructor.
Corequisite(s): TAKE MATH-115

PHYS-104 GENERAL PHYSICS II (3 Credits)
Topics include: electricity and magnetism, circuit analysis, electromagnetic waves, optics and modern physics. Students without calculus admitted with permission of instructor.
Prerequisite(s): Take PHYS-103 MATH-115

PHYS-110 PHYSICS FOR MEDICAL TECHNICIAN (4 Credits)
A one-semester general physics course which emphasizes the principles of physics that are most important to a medical technician. The course topics include optics, forces, motion, energy, heat, fluids, electricity and radioactivity.

PHYS-201 THEORETICAL MECHANICS (3 Credits)
Vector algebra and calculus. Kinematics of a point. Dynamics of a system of points. Kinematics of rigid bodies. Impulse, momentum, work and energy.
Prerequisite(s): Take PHYS-103 PHYS-104

PHYS-203 MODERN PHYSICS (3 Credits)
A study of transition from classical to modern physics. Topics treated are relativity, electromagnetic radiation, discoveries of electron and nucleus, Bohr Theory of atomic structure and introductory quantum mechanics. (formerly Atomic Physics).
Prerequisite(s): Take PHYS-103 PHYS-104

PHYS-252 ENGINEERING MECHANICS (3 Credits)
The study of statics and dynamics with engineering applications. Deformation, strain and stresses in solids of one, two, and three dimensions. Introduction to the mechanics of continuous media, the kinematics and dynamics of fluids; viscous flow, turbulence. Bernoulli's theorem and the Navier-Stokes equation.
Prerequisite(s): Take PHYS-103 PHYS-104

PHYS-301 ELECTRICITY & MAGNETISM I (3 Credits)
Topics covered include vector analysis, selected topics in vector calculus, the electrostatic field of force, Gauss' law and the application of these principles to the solution of problems involving various geometries is considered. The electrostatic field in dielectric media, boundary value problems in dielectric media and electrostatic energy and the application of energy concepts are studied. Electric current and circuit analysis are included. Other topics include the magnetic field of steady currents, electromagnetic induction, magnetic properties of matter, magnetic energy, slowly varying currents, Maxwell's Equations and the applications of Maxwell's Equations.
Prerequisite(s): Take MATH-251 MATH-252 PHYS-103 PHYS-104

PHYS-302 ELECTRICITY & MAGNETISM II (3 Credits)
Prerequisite(s): Take PHYS-301

PHYS-304 THERMODYNAMICS (3 Credits)
Temperature, thermodynamic systems, work, the First Law, heat, ideal gases, the Second Law, reversibility and irreversibility, the Carnot cycle, entropy, Boltzmann statistics, equipartition of energy. Introductory statistical mechanics.
Prerequisite(s): PHYS-103 AND PHYS-104

PHYS-309 EXPERIMENTAL PHYSICS I (3 Credits)
This course introduces the student to the experimental techniques associated with the intermediate level physics courses. Choice of experiments will depend upon the student's background and interest.
Prerequisite(s): PHYS-103, PHYS-104, PHYL-103, PHYL-104

PHYS-312 INTERN. IN APPLIED PHYSICS (3 Credits)
This course is a practicum designed to give qualified juniors an opportunity to spend a summer in a structured industrial or research setting so that they can immerse themselves in a project involving applied physics. Open to second-semester junior physics majors and with special permission students with a physics minor.

PHYS-403 ELECTRONICS (3 Credits)
This course is designed for the student who desires a basic training in electronics. The course seeks to acquaint the student with the physical principles which govern the use of electronic devices and to allow the student to use these components in the design of circuits.

PHYS-404 SOLID STATE (3 Credits)
Crystal Structures and solids. Lattice vibrations. Thermal properties of solids.
Prerequisite(s): Take PHYS-203

PHYS-406 INTRODUCTORY QUANTUM MECHANICS (3 Credits)
De Broglie waves and wave packets, the Schroedinger equation, applications to one-dimensional problems, the hydrogen atom, perturbation theory, angular momentum and electron spin.
Prerequisite(s): Take PHYS-203

PHYS-407 TOPICS IN BIOPHYSICS (3 Credits)
A study of the principles and experimental techniques of physics as they apply to biological systems. Special emphasis will be given to the interactions as they occur on the molecular level.

PHYS-408 OPTICS (3 Credits)
Study of wave motion, Huygen's principle, dispersion. Some facts concerning the spectrum, interference, diffraction, double refraction, plane polarized light, the electromagnetic theory of light, velocity of light, the origin of spectra.

PHYS-409 EXPERIMENTAL PHYSICS II (3 Credits)
This course is a continuation of Physics 309. Experiments of a more sophisticated nature are available. The experiments are related to lecture courses at the senior level.

PHYS-410 SPECIAL PROBLEMS IN PHYSICS (3 Credits)
Designed to allow qualified seniors to undertake independent study or experimentation in some subject in physics under the direct supervision of one of the department staff. Modern computer methods will be employed wherever possible so that the student may become acquainted with the programming, etc.

PHYS-451 APPLIED PROB.COMPUTATIONAL PHY (3 Credits)
Problem solving in a wide range of engineering and physics applications, including electricity and magnetism, solid and fluid mechanics, optics, thermal physics, atomic and nuclear physics. Emphasis is placed on numerical methods, approximation techniques and advanced computer skills for solutions of problems arising in realistic engineering situations.
Prerequisite(s): Take CS-127 or ENGR-220

PHYS-452 Applied Methods in Computational Physics (3 Credits)
Practice in the numerical solution of differential equations and systems of such equations. Finite difference and finite element methods are used on applications drawn from several areas of physics and engineering.
Prerequisite(s): Take PHYS-451
PHYS-490 SENIOR COMPREHENSIVES (0 Credits)
This is an oral comprehensive required of all physics seniors.
PHYSICS LAB (PHYL)

PHYL-103 GENERAL PHYSICS I LAB (1 Credit)
Basic experiments in classical physics designed to complement the topics covered in Physics 103.
Corequisite(s): Take PHYS-103

PHYL-104 GENERAL PHYSICS LAB II (1 Credit)
Basic experiments in classical and modern physics designed to complement topics covered in Physics 104.
Corequisite(s): Take PHYS-103

PHYL-110 MED. TECH LAB (1 Credit)
Two hours per week laboratory with experiments in areas covered in Physics 110.
POLITICAL SCIENCE (POLS)

POLS-ELEC POLS (3 Credits)

POLS-102 AMERICAN POLITICS (3 Credits)
This course seeks to explain American politics as the interaction among political thought, economic, political, and social structures, and the struggle for human rights. Grounded in an understanding of the clash between the economic elites and democratic forces during the Constitutional period, the course then traces this dynamic into the basic governmental structure, political parties and elections, media influence, and political struggle for human rights. Finally, the course explores the possibilities for change under the current political/economic/social structures.

POLS-103 INTERNATIONAL RELATIONS (3 Credits)
This course is designed as an introduction to the study of international relations. Several important questions are addressed. What is the nature of the international system? What sources of powers are available? What are the strengths and weaknesses of the current state system? How are non-state actors influencing international relations? What are the links between individuals and world politics? Objectives of this course include increasing understanding of current international events, developing an appreciation for the challenges of political decision-making and diplomacy and the choice of tactics, augmenting familiarity with key political concepts and improving recognition of important international actors.

POLS-104 MODEL UNITED NATIONS (3 Credits)
This course is the entry to participation in MUN. The class is designed to familiarize the student with the following issues and materials: the structure and functions of the United Nations and its internal agencies; the salient issues that come before the UN; the rules of order and procedures of formal debates used at the UN; experience and participation in UN simulations; research methods and techniques for studying foreign nations; preparing position papers; and tasks related to planning and organizing a Model UN simulation. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester. They prepare for participation at the Mid-Atlantic Model United Nations Conference day-long scrimmages at different times during the year, and participate in other conferences as scheduled. They also actively plan and implement the St. Bonaventure Model United Nations Conference for high school students held on the St. Bonaventure campus in the spring of each year.

POLS-104A MODEL UNITED NATIONS (1 Credit)
POLS-104B MODEL UNITED NATIONS (1 Credit)
POLS-104C MODEL UNITED NATIONS (1 Credit)
POLS-104D MODEL UNITED NATIONS (1 Credit)

POLS-203 COMP. POLITICAL SYSTEMS (3 Credits)
A comparative analysis of the governments and politics of modern nation-states. First, a method of comparative analysis will be established. Then the student will analyze a selection of systems of government and politics from each area of the world. Areas will include advanced industrial states, developing regions and regimes in transition. Objectives of this course include increasing familiarity different types of political systems, structures, ideologies and conflicts.

POLS-204 POLITICAL THOUGHT (3 Credits)
This course addresses several fundamental questions of social and political life. Why do we follow rules? Is there a universal basis for judging behavior? Are there laws of human nature? If so, what kind of society do they encourage? What are the causes and justifications of inequality? What is the best way to organize society? We will read several attempts to address these questions during the class. The objectives of the course include gaining familiarity with some of the key concepts and thinkers in the history of political theory, developing an appreciation of the influences of political theory in shaping politics, improving the capacity to compare and analyze arguments, and developing skills in examining and presenting lines of reasoning.

POLS-205 LAW AND SOCIETY (3 Credits)
Law is a common and yet distinct element of daily life in modern societies. The creation, interpretation, and enforcement of laws occur in the context of historical changes, societal norms, and the subjective concerns and whims of those charged with its creation. This course will explore, from an American and comparative perspective, the nature of law as a set of social systems, central actors in the systems, legal reasoning, and the relationship of the legal form and reasoning to social change.

POLS-207 POLITICS AND RELIGION (3 Credits)
For so long, the theory and practice of secularism have dominated politics, but the last few decades have witnessed the ‘resurgence’ of religion in the public sphere and a sharp increase in religious influence in international and domestic politics. Indeed, it has become common knowledge that religious worldviews inform, influence and shape political behavior and attitudes of individuals, political parties, social movements, civil society, and even the foreign policies of nation states. What explains the ‘resurgence’ of religion and the emergence of religion political movements and organizations? Why do some states insist on a strict separation of religion and politics while others seek their integration and fusion? Is secularism really declining? What is the relationship between the recent rise of the radical right and religion? Why do some religious actors resort to political violence while others employ peaceful means? The relationship between religion and politics is multifaceted and dynamic. This course aims at exploring this complex relationship in a wide variety of settings and countries from the Middle East, Europe, Africa and Latin America.

POLS-208 INTERMEDIATE MODEL UNITED NATIONS (3 Credits)
This course will have the responsibilities of POLS-104, plus additional presentations to the class and the requirement of running a committee for SBUMUN. Students will be expected to participate in at least three MAMUNC scrimmages or other conferences. Only three MUN credits at the POLS 210 level or higher will be acceptable as a political science elective for the major. The other MUN credits will be considered as general electives. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.

POLS-209 INTERMEDIATE MODEL UNITED NATIONS 2 (3 Credits)
This course will have the responsibilities of POLS-104, plus additional presentations to the class and the requirement of running a committee for SBUMUN. Students will be expected to participate in at least three MAMUNC scrimmages or other conferences. Only three MUN credits at the POLS 210 level or higher will be acceptable as a political science elective for the major. The other MUN credits will be considered as general electives. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.

Prerequisite(s): TAKE POLS-104
POLS-221 CONGRESSIONAL POLITICS (3 Credits)
Congress is the first branch of government and the keystone of the Washington establishment. This course explores some of the most basic questions about the American political system. Does Congress adequately represent the American people? Why does Congress have difficulty making collective decisions in the national interest? How has the Republican takeover of Congress reconfigured the institution and altered its procedures? How can Congress and the president work together to make public policy? Topics covered include representation, campaign finance, elections, the legislative process, the committee system, members in their districts, Congressional investigations, party leadership, Congress and relations with the president.

POLS-240 CONTROVERSIES-PUBL POLICY (3 Credits)
This course introduces students to the fundamental concepts and debates in areas of policy analysis, policy formation, and specific policy issues. We will address questions like: Can we analyze public policies rationally and systematically? What criteria ought we use to analyze public policies? Is the policy making process rational and systematic, or is it political and arbitrary? Finally, what major policy issues confront Americans today, and what choices do we face?

POLS-251 AMERICAN URBAN CONFLICT (3 Credits)
The cities of the United States present critical political and social issues, including de-industrialization, inner city poverty, crime and suburbanization. These cities also represent centers of vital political and social developments including the civil rights movement, the new urbanism, urban enterprise zones, the new economy and cosmopolitan culture. This course explores the variety of problems and opportunities facing American cities today, while providing a close look at the politics and culture of major cities like New York, Los Angeles and Chicago.

POLS-261 PARTICIP'N IN AMER POLITICS (3 Credits)
Political participation is essential for American democracy. This course explores the variety of ways Americans participate politically and the promises and limitations of this activity. Traditional forms such as elections, campaigning, the courts and interest groups are examined as well as more radical forms such as the civil rights movement, feminism and protests.

POLS-300 QUALITATIVE METHODS FOR A GLOBALIZING WORLD (3 Credits)
In this course International Studies and Political Science students will learn now to develop a research question and choose the appropriate methods and evidence to answer the question and develop an argument. The basics of case study research will be presented along with methods such as process tracing and content analysis. Students will learn how to conduct interviews and find other primary source material from sources such as the United Nations website, the World Values Survey, and social media. Strategies for effectively organizing and writing a major research paper will be presented.

POLS-301 COMPARATIVE REVOLUTIONS (3 Credits)
A study of the role political ideology, leadership and environmental factors play in political revolutions. The student is first introduced to a variety of analytical framework utilized by political scientists in order to understand revolutionary processes. Then the course examines several revolutions, both successful. These may include the Chinese, Cuban, Irish, German, French, Russian and American revolutions.

POLS-302 AMERICAN POLITICAL THOUGHT (3 Credits)
This course traces liberalism, the dominant American ideology, from Puritanism to the present time. Special attention is given to the Constitutional period and the contrasting thought of Madison and Jefferson, the Industrial Revolution, and the Depression. Finally, the course considers the effect of liberal ideology on the current condition of American politics.

POLS-305 PRESIDENTIAL POWER (3 Credits)
Designed to provide a thorough understanding of the processes of the executive branch of the American government, its role in relationship to the other sectors of government and the public. Included for consideration are the Office of the President, his staff and cabinet; the policy making process and the bureaucracy.

POLS-306 COURTS IN AMER. POLITICS (3 Credits)
This course details the role of law within the larger political/economic system showing how it functions as a system of social control. Particular attention is given to the role of the government in maintaining the legal system through judicial appointments and prosecutors; the role of juries; and the public before the courts.

POLS-307 QUANTITATIVE RESEARCH METHODS IN POLITICAL SCIENCE (3 Credits)
This course introduces students to the methods and terminology used by political scientists. We will examine basic concepts used in research (such as theories, hypotheses, independent and dependent variables, reliability and validity, sampling, and generalizability). We will also examine basic statistical techniques that are used to examine data, with an emphasis on interpreting the results (ranging from descriptive statistics to crosstabs, correlation, and regression). This course provides the knowledge necessary to conduct objective investigations of political phenomena and to better understand and evaluate the research of others. Upon completion of this course, students should be able to understand and interpret most research published in political science journals, as well as public opinion polls, surveys, and research findings reported in the news. As a result, students who complete this course will become more sophisticated consumers of diverse research and be prepared for future coursework in political science, as well as for life as an educated and informed citizen.

POLS-308 MODEL UNITED NATIONS SECRETARIAT (3 Credits)
This course builds on the experience and responsibilities of POLS 210/211 but also requires key leadership positions and major preparations for the conference and conduct of the class. This entails extra planning meetings, and the execution of many of the logistical requirement of the SBUMUN conference. Members at this level will also help revise and make suggestions for the topic guides and other material for SBUMUN, help prepare the class for other conferences, and manage the SBUMUN website. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.

POLS-309 MODEL UNITED NATIONS SECRETARIAT 2 (3 Credits)
This course builds on the experience and responsibilities of POLS 210/211 but also requires key leadership positions and major preparations for the conference and conduct of the class. This entails extra planning meetings, and the execution of many of the logistical requirement of the SBUMUN conference. Members at this level will also help revise and make suggestions for the topic guides and other material for SBUMUN, help prepare the class for other conferences, and manage the SBUMUN website. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.
POLS-315 ENVIRONMENTAL POLITICS (3 Credits)
This course addresses the relationships among the environmental movement, their opponents and the political system. Students study political movements for and against environmental protection at the community, national and global level. It also investigates the principal policies and policy-making institutions, including major environmental legislation and regulations, state and federal environmental agencies, and international agreements.

POLS-320 AMERICAN FOREIGN POLICY (3 Credits)
The United States emerged from the past millennium as the world's only 'superpower.' During the semester we will explore questions such as: How did the U.S. gain this undisputed advantage in the international arena? Does U.S. hegemony threaten world stability or is U.S. guidance the key to peace and prosperity in this millennium? How are other countries and groups reacting to U.S. power? Were the September 11 attacks the manifestation of a 'clash of civilizations' or a reaction to U.S. imperialism? As we move chronologically through the major foreign policy events of the past fifty years we will consider traditional political science explanations for U.S. decisions, considering evidence for realist, liberal (or idealist), and critical viewpoints. By the end of the course students should have gained an appreciation of the difficulties involved in maintaining influence on a global scale and the, often conflicting, impact of U.S. foreign policy decisions on democracy at home and abroad.

POLS-328 POLITICS OF THE 60s (3 Credits)
The period commonly referred to as 'the 60s' was a unique time in U.S. politics. The United States experienced political assassinations, a confrontation with the Soviet Union, a conflict in Vietnam, a civil rights movement, the largest student protest movement our country has seen, inner city riots, and prison uprisings. This course examines these events to understand their evolution as well as their lasting effects on U.S. political institutions and political behavior.

POLS-330 INT'L POLITICAL ECONOMY (3 Credits)
With the end of the Cold War and the acceleration of 'globalization,' economic issues have come to dominate the international agenda. This course examines the relationship between politics and economics in the international setting. It begins by looking at issues of trade and the international division of labor focusing on the trend toward regional trading blocks. Issues of international finance and monetary policies are then explored looking at the political implications of financial integrations. Finally, students will be introduced to some new ways of thinking about the international political economy focusing on gender and environmental issues.

POLS-340 IDENTITY, EMOTIONS & DECISIONS (3 Credits)
This course examines the reasons for political behavior from a psychological perspective. The study of political behavior can be examined at the elite or mass levels, or even the nexus between elites and mass. This course uses insights and research from both psychology and political science to analyze a number of issues in the creation of political action. Particular emphasis will be placed on public opinion, persuasion heuristics, identification, intergroup conflict, tolerance, decision-making processes and the influence of small groups and personality of leaders on decision outcomes.

POLS-345 POLITICAL CONFLICT (3 Credits)
The study of politics revolves around conflict and compromise. Several scholars examine strategies used in the competitive quest for power or other values. Others study psychological factors of identity that influence group conflicts. Theorists attempt to develop models of decision making and political behavior that help explain the general processes of conflict. The course presents a set of tools useful in the study of conflict processes and examines the importance of gender in conflict. Further, we examine a number of case studies to compare how conflicts develop in different settings. An important aspect of the course is a research project in which you will analyze a conflict of your choice.

POLS-350 WESTERN EUROPEAN POLITICS (3 Credits)
This course is designed to introduce students to politics in Western Europe. Many of the countries have experienced drastic changes recently. The European Union continues to grow, thereby changing domestic as well as international politics. Ethnicity and nationalism threaten stability in much of the region. The course examines the effects of institutions and culture on political outcomes. The class combines country-specific case studies and cross-national comparisons focused on diverse political topics. The course examines politics within several countries of Western Europe, as well as in the European Union. We will address such questions as: What are the political effects of movements that seek the decentralization of the state and increased local autonomy? What are the effects of the movement toward increased integration of the European Union? What are the effects of different electoral systems on politics?

POLS-351 POLITICS OF SOCIAL POLICY (3 Credits)
Social policy is one of the most contentious and misunderstood topics in American politics today. The welfare state as such has come under attack, as those who depend upon its programs. This course addresses many of the contemporary scholarly and policy debates concerning the nature of the welfare state, the development of the American welfare state, the nature of poverty today and the impact of social policy upon divisions in American society. Traditionally, social policy has focused upon poverty, but this course is also interested in its impact on issues of race, social class and gender.

POLS-355 LATIN AMERICAN POLITICS (3 Credits)
Students will be introduced to the challenges facing Latin American countries as they develop politically, economically and socially. The course considers alternative theoretical explanations for patterns of politics in the region, analyzes the role of different social and state actors and reviews contemporary political trends in a number of Latin American countries. Major contemporary issues that will be examined include the role of the military in politics, the possibilities for democracy in the region, the challenge of bringing human rights abusers to justice, and the causes and consequences of international issues such as the debt crisis and drug trafficking.

POLS-356 LATIN AMERICA & THE U.S. (3 Credits)
This course examines contemporary issues in United States-Latin American relations, placing them in larger context of U.S. dominance in the region. Topics to be explored include the causes and consequences of Central American and Mexican immigration, free trade, the Andean region and drug trafficking (with a focus on recent Plan Colombia), and security issues related to Cuban revolution and the Panama Canal.
POLITICAL SCIENCE (POLS)

POLS-375 WOMEN AND POLITICS (3 Credits)
Women in most societies have been traditionally considered apolitical. This course seeks to break this commonly held image of women in a number of ways. A primary goal of this course is to develop a broad and sophisticated understanding of politics that can reveal the multifaceted ways in which women are politically involved. A second goal of the course is to recognize the diversity of political women. An understanding of the diversity of women in politics will be enhanced by consideration of women in a variety of political settings. The course seeks to develop an understanding of how different political and economic regime types—revolutionary, military, democratic, neoliberal, etc.—have a distinct impact on women and men.

POLS-395 MEDIA AND POLITICS (3 Credits)
This course takes a broad view of the media and its impact on politics, as well as the attempts of politicians and bureaucrats to manipulate media messages. We begin the semester by exploring the origin of the division between ‘news’ and ‘entertainment’ media and the recent blurring of this distinction. We then look at the evolution of the PR industry to see how opinion makers (particularly politicians and business interests) have developed techniques to shape mass public opinion. With this background we consider the impact of modern media coverage on political campaigns and executive and legislative politics.

POLS-396 POLITICS OF THE MIDDLE EAST (3 Credits)
This course is a comprehensive survey of historical and contemporary events in the region and focuses on the period starting from the fall of the Ottoman Empire to the present. We will examine processes of state building, struggles for self-determination and the domestic, regional, and international factors shaping the foreign policies of key states in the Middle East, the politics of religion, particularly the rise of various violent and non-violent forms of Islamic fundamentalism, the Arab-Israeli conflict, and the fate of ethnic and religious minorities in the wake of the region’s upheavals. The ultimate purpose is to provide students with historical and substantive knowledge of the region and the analytical tools necessary to critically evaluate events and political trends.

POLS-397 POLICING IN THE AMERICAS (3 Credits)
This course engages in a critical examination of ‘police power’ in a wide range of contexts - from local instances of protesting policing to international police assistance. While police are often seen as ‘neutral’ enforcers of the law without their own political interests, their roles in maintaining order, targeting certain populations for enforcement, collecting intelligence, and at times supporting particular politicians or political parties make them important political actors. The course provides a historical and theoretical perspective on the role of the police in liberal democracies, in particular the United States and Canada, as well as the efforts of these countries to ‘export’ various policing models to Latin America.

POLS-398 TERRORISM & POLITICAL VIOLENCE (3 Credits)
This course is a survey of the phenomenon of political violence and an analysis of its causes, forms, and consequences. The course will focus on the following three forms of political violence: terrorism, genocide and assassinations. The course will explore several questions: why do individuals/organizations/states resort to violence instead of pursuing their goals peacefully through routine politics? What accounts for individual and mass support for political violence? What are the psychological, social, and political effects of violence? Is violence more effective in realizing an actor’s objectives? The course will focus on current events and past events. This course employs an interdisciplinary approach and will cover both broad/general theories and specific cases from different regions and will include watching few movies and documentaries.

POLS-399 INTERNATIONAL SECURITY (3 Credits)
International security lies at the heart of international stability and prosperity. Understanding the fundamental security issues that the international community has to deal with nowadays is crucial for political order. In this course, we will examine the major social forces that shape political outcomes in various states, such as religion, nationalism, and ethnicity; we will also study actual threats such as terrorism, proliferation of weapons of mass destruction, civil wars and state failure. Finally, we will consider long-term trends such as the effects of information technology on security, changing role of states, international organizations, transnational movements and democratization. A major focus of the course will be on U.S. security policy given that we live in an age of American supremacy.

POLS-420 CONS. LAW I. CIVIL RIGHTS (3 Credits)
This course engages the student in the debate concerning the parameters of freedom and political order within the legal system. It does so by examining the dynamics of Supreme Court decisions as related to the First Amendment rights of speech, press, religion; criminal due process; equal protection for minorities and women; and the right of privacy.

POLS-421 CONSTIT. LAW II:POL STRUCT. (3 Credits)
The behavior of American politics is largely determined by the governing structures existing within the system. In turn, each of these structures is grounded in Constitutional law. This course, by closely analyzing the Constitution itself and various Supreme Court decisions, explores the legal foundations of American politics. Subjects include the separation of powers, the federal system, executive privilege, the private economy, etc.

POLS-435 POLITICS OF DEV. AREAS (3 Credits)
This course focuses on the problems encountered by developing nations as they attempt to modernize their political and economic institutions. We will address questions such as why do some countries seem to have an easier time developing than others? How can we measure concepts such as development and democracy? Are economic development and political democratization mutually reinforcing process or do they conflict? In addition to exploring different theoretical explanations for political outcomes the course addresses important issues which policy makers in developing countries deal with on a daily basis including: environmental degradation, the status of women, racism, child labor, war and threats to national security.

POLS-445 SOCIAL MOVEMENTS (3 Credits)
This course introduces students to basic social movement theory and its relation to political events. We will explore questions such as: What motivates groups of people to organize to demand political change? Why does protest occur in some situations and not in others? When are social movements likely to be successful in achieving their demands? What is the role of the state in encouraging and suppressing social organizations? We will apply these theories to movements such as the civil rights movement, women’s movements, indigenous movements, gay rights movements, peace movements, peace movements, religious movements and the environmental movements. The particular groups studied will vary by semester.

POLS-450 SPECIAL TOPICS (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.
POLS-451 SPECIAL TOPICS (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-451D SP TOP: POLICING & DEMOCRACY (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-451G SP TOP: POLITICAL PARTIES & INTEREST GROUPS (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-451J ELECTIONS & VOTING BEHAVIOR (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-455 DEMOCRATIC FUTURES (3 Credits)
Many academicians as well as the public have raised serious questions concerning the future of American democracy. This course contemplates the future, but by first understanding the present. We will explore the fields of psychology, technology, biology, media, government and economics to discover the sources of current concerns. Then with this grounding we will examine possible futures in such areas as deep ecology and anti-politics.

POLS-460 NATIONALISM & ETHNIC CONFLICT (3 Credits)
One of the greatest threats of state security in the post Cold War era has been the rise of nationalism and the role of ethnicity in political mobilization. We discuss the roots of ethnic and nationalistic sentiment, specifically whether ethnicity is a flexible social construct. We then move forward to consider the following questions. When does ethnicity become politicized? How and why do ethnic groups mobilize to engage the state? What are possible state responses to nationalist sentiment and ethnic conflict? Throughout the class case studies of recent ethnic conflict, such as Yugoslavia and the Rwandan genocide, will be used to illuminate the material.

POLS-491 WASHINGTON INTERNSHIP (3-15 Credits)
The student lives and works in Washington for a semester. The student expresses several choices as to a preferred experience and then is placed in one of these choices. Past student experiences have included the White House, State Department, Department of Justice, Congressional Offices.

POLS-491S WASHINGTON CENTER INTERNSHIP (3-15 Credits)

POLS-492 ALBANY INTERNSHIP (15 Credits)
A student may participate in the New York State Assembly program in Albany offered each Spring semester. The student lives and works in Albany.

POLS-492A LEGISLATIVE INTERNSHIP (3 Credits)

POLS-493 LAW OFFICE INTERNSHIP (3 Credits)
Awarded to deserving junior and senior students. Each student will spend eight hours per week working in a local law office experiencing the law as actually practiced. The student will be under the direct supervision of a lawyer. With permission of the department chair, the internship may be completed during the summer in the hometown of the student.
PSYCHOLOGY (PSYC)

PSYC-ELEC PSYCHOLOGY ELECTIVE (3 Credits)

PSYC-101 INTRO TO PSYCHOLOGY (3 Credits)
A beginning course in the social and natural science areas of psychology; coverage of these two areas is at the discretion of the instructor. Research methods, quantitative methods and history are also introduced.

PSYC-102 AN INTRO TO BIOPSYCHOLOGY (3 Credits)
This course is a comprehensive introduction to the foundations of behavior. This includes the genetic, hormonal, neurochemical, developmental, social, and evolutionary bases of behavior and mental processes. Specific topics with the course, addressed at multiple levels of analysis, include sensation, perception, learning, memory, emotion, thinking, language, feeding, drinking, reproduction, aggression, and other social behaviors.

PSYC-201 PSYC RESEARCH: METHODS & STATISTICS I (4 Credits)
The course will focus on the development of skills to enable the student to understand and conduct psychological research. Topics may include: the scientific process, observational methods, types of investigation, surveys, traces, archival data, control, sampling, descriptive statistics, correlation and regression, basics of hypothesis testing.
Prerequisite(s): Take PSYC-101

PSYC-202 PSYC RESEARCH: METHODS & STATS II (4 Credits)
The course will focus on the development of skills to enable the student to understand and conduct psychological research. Topics may include: experimental designs, multilevel and factorial designs, interactions, external validity, comparisons among means, t-test, analysis of variance, non-parametric statistics.
Prerequisite(s): Take PSYC-201

PSYC-212 SOCIAL PSYCHOLOGY (3 Credits)
The study of how individuals influence and are influenced by their social environments. Topics include social learning, attitude formations and change, interpersonal attraction, social exchange, conformity, leadership and social groups.
Prerequisite(s): Take PSYC-101 or SOC-101

PSYC-213 GROUP DYNAMICS (3 Credits)
This course covers the major theories of group behavior and group process through experimental exercises, discussions and readings. Opportunities for students to learn observational and analysis skills necessary to study group process are provided.
Prerequisite(s): PSYC-212

PSYC-215 MALADAPTIVE BEHAVIOR (3 Credits)
Introduces students to the diagnostic criteria and description of mental disorders as well as the etiology and treatment. Special attention is paid to the scientific basis of our knowledge of this area.
Prerequisite(s): Take PSYC-101

PSYC-222 PSYCH OF LEARN/MEMORY (3 Credits)
An overview of the general principles governing behavior change, informed by consideration of the ecological and biological constraints and affordances on learning and memory. Topics may include the principles underlying: habituation, reinforcement, punishment, learning-set formation, conditioned emotional responses, taste aversions, token economies, spatial learning, food storing, short- and long-term memory, forgetting, drug addiction, therapy for maladaptive behaviors.
Prerequisite(s): Take PSYC-101

PSYC-224 PSYCHOLOGY OF ADOLESCENCE (3 Credits)
Development of adolescent behavior with emphasis on the determinants of patterns of adolescent activity.
Prerequisite(s): Take PSYC-101

PSYC-225 ADULT DEVELOP & AGING (3 Credits)
As we age we undergo gains as well as losses during the adult years. The focus of this course is twofold; to emphasize what individuals can do to promote successful aging and to highlight what individuals can do when faced with the challenges of the declines and diseases that occur during the adult years. This course will examine adult development and aging in four domains: biological and physical, cognitive, personal, and social.
Prerequisite(s): TAKE PSYC-101

PSYC-232 PSYCHOLOGICAL WELL-BEING (3 Credits)
Through this course the science of positive psychology will be explored. The roots of the study of human well-being in ancient Greek philosophy and, more recently, humanistic and existential psychology will be covered. Emphasis will be given to recently developed theories on optimism, hope, resilience, strengths, and human flourishing. These topics will be viewed at the level of individuals, interpersonal relations, groups, organizations, communities and nations.
Prerequisite(s): Take PSYC-101

PSYC-270 INVESTIGATIVE PSYCHOLOGY (3 Credits)
Investigative Psychology is the scientific psychological study or criminal action and the processes involved in detecting, apprehending, and bringing to justice the offender. Topics covered in this course will include a history of investigative psychology, criminal theories, examination of crimes (murder, sexual assault, acquisitive crimes) eyewitness testimony, interviewing, line-ups, and false confessions.
Prerequisite(s): Take PSYC-101 or SOC-101

PSYC-302 EXP IN HUMAN MEM. & COGN. (3 Credits)
A laboratory course exploring human memory, information processing and cognitive processes. The course will focus on experimental work, building from simple research to more complex designs, to develop a variety of research skills involved in such research.
Prerequisite(s): PSYC-202
Corequisite(s): & PSYC-222 OR PSYC-422

PSYC-304 PERSONALITY EXPER. CORR RES. (3 Credits)
Collection, analysis, and interpretation of data which assess relationships between personality and behavior. Special emphasis on person-situation interaction. Assessment techniques and research associated with psychodynamic, phenomenological, cognitive and trait theories. Data analysis using computerized multiple regression will be a part of the course.
Prerequisite(s): Take PSYC-202 PSYC-433

PSYC-309 SOCIAL INFLUENCE (3 Credits)
Social influence is practiced by each of us and used on each of us every day. Social influence attempts include subtle social pressure, requests, and direct commands and can take a variety of forms including personal appeals, advertising campaigns, and government propaganda. Social influence attempts may be conveyed through traditional advertising but can also be conveyed through art, architecture, and music. As part of this course, students will examine and evaluate real world social influence tactics as well as examine empirical research that explores the factors that make it more likely a social influence attempt will be successful. Topics may include attitude change and persuasion, conformity, compliance, and obedience.
Prerequisite(s): Take PSYC-101
PSYC-310 ORGANIZ. & INDUSTRIAL PSYCH. (3 Credits)
An introduction to the psychology of the individual within the organization. The level of analysis will extend from individual psychology to the social psychology or groups and larger social structures.
Prerequisite(s): Take PSYC-101

PSYC-312 CHILD DEVELOPMENT (3 Credits)
The major theories in developmental psychology will be discussed with a focus on infant and child development. Theories and topics discussed include cognitive development, language development, attachment and emotional development, moral development, the self, and the role of the family, peers, school, and the media on development.
Prerequisite(s): Take PSYC-101

PSYC-313 INTERPERSONAL RELATIONS (3 Credits)
An inquiry into theories and empirical studies of the dyad. The dynamics of the development and maintenance of close interpersonal relationships are emphasized. Principal topics include attraction, intimacy, verbal-nonverbal communication, conflict and conflict resolution. Marriage and alternative dyadic lifestyles are critically discussed.
Prerequisite(s): Take PSYC-101

PSYC-315 ANIMAL BEHAVIOR (3 Credits)
A comprehensive introduction to the study of behavior that is organized around Niko Tinbergen’s ‘four questions’ that are asked about behavior: What is the immediate causation, the development, the evolutionary function, and evolutionary history of the particular behavior in question. Topics include: behavior genetics, evolution, predation, predator, avoidance, play, communication, cooperation, altruism, kin-selection, monogamy, polyandry, polygyny, territoriality, individual differences (nonhuman animal ‘personalities’).
Prerequisite(s): Take PSYC-101

PSYC-316 HUMAN SEXUALITY (3 Credits)
This course will offer a broad view of human sexuality from multidisciplinary perspectives: the psychological, biological, sociological, and historical. Topics will include research methods in the area of sexuality, human sexual anatomy, response, motivation, variations, reproduction, and basic sexological vocabulary, gender differences, developmental issues, and current and emerging theories and controversies regarding gender identity, sexual orientation, and the treatment approaches for sexual dysfunction and other sexual problems.
Prerequisite(s): Take PSYC-101

PSYC-330 HEALTH PSYCHOLOGY (3 Credits)
Issues related to health are a national concern as obesity rates and the costs for health care rise. This course provides an overview for many topics in health psychology including addiction, illness, exercise, stress, diet, and sexual behavior. This course describes research methodologies from an evolutionary, social, cultural, political, and individual perspective. Current treatments and inventions for solving issues related to health are also introduced. In all, this course provides a diverse introduction to many topics, perspectives, and outcomes for research in health psychology.
Prerequisite(s): Take PSYC-101

PSYC-343 PHYSIOLOGICAL PSYCHOLOGY (3 Credits)
An introduction to the physiological bases of behavior, focusing on the structure of the nervous system and the hormones and other biochemicals important for brain functioning and the emergent phenomenon we call behavior. Learning the 3 dimensional structure of the mammalian brain is aided by dissecting a sheep’s brain. Topics include: development, recovery from spinal cord injury, movement, sensation and perception, sleep, consciousness, emotion, ingestion, eating disorders, reproduction, social bonding, communication, language, learning and memory, drug addiction, and disorders such as Parkinson’s, Alzheimer’s, schizophrenia, depression, ADHD.
Prerequisite(s): Take PSYC-101 OR BIO-106, & PSYC-102

PSYC-370 PSYCHOLOGY OF TERRORISM (3 Credits)
Drawing on theories and research in Social Psychology this course will examine terrorist groups, explore the beliefs of these groups, and discuss why someone would become inspired by, an affiliate with, financially support; or take action based on the beliefs or extremist ideologies of terrorist groups. The course will also examine the strategies used by terrorist groups to recruit adherents and convert them to their cause and the organizational structure of these groups.
Prerequisite(s): Take PSYC-101 or SOC-101

PSYC-371 HATE CRIMES (3 Credits)
Social psychological theories and research will be used to explore the issue of hate crimes. Topics to be addressed include social psychological theories of hate and prejudice, the development of hate crime laws, typologies of hate crimes, major types of hate crimes, investigation and prosecution of hate crimes, and the impact of hate crimes on the victims and society.
Prerequisite(s): TAKE PSYC-101 OR SOC-101

PSYC-382 SUSTAINABLE BEHAVIOR: DIET HEALTH AGING (3 Credits)
Sustainability is meeting our needs without compromising the ability of future generations to meet their needs. This course will explore the primary scientific literature to understand the reciprocal influences between our biology of eating (evolution, culture, physiology) and the food-production system. Our goal is to understand the relationship between food choices, cognitive, and mental health, and aging. Furthermore, those topics are set in the context of economically viable, ecologically-sound, and ethical food production systems. After reading core materials, specific topics for in-depth reading will be negotiated by participants.
Prerequisite(s): Take PSYC-202

PSYC-401 SENIOR SEMINAR (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must take the Senior Seminar. In this course students plan, conduct and write a senior thesis based on an empirical research project. The purpose of the thesis is to capstone undergraduate experiences and to provide a transition to post-baccalaureate life.
Prerequisite(s): TAKE PSYC-202 & (PSYC-301, 302, 303, 304, 305, 306, OR 307)
Restrictions: RG.86+

PSYC-412 APPLIED PSYCHOLOGY (3 Credits)
Applications of Psychological principles and research methods to problems in propaganda, politics, law and health.
Prerequisite(s): Take PSYC-101 PSYC-212
PSYC-414 SPORT & EXERCISE PSYCH (3 Credits)
Sport and Exercise Psychology is an emerging field that covers a diverse range of topics including team dynamics, team leadership, exercise and sport performance, sport related health and well-being, and sport to facilitating growth and development. In addition to presenting research in these areas, this course focuses on enhancing performance in sport and exercise and sport related health and well-being.

**Prerequisite(s):** Take PSYC-101

PSYC-420SP TOP: FORENSIC PSYC. (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

**Prerequisite(s):** Take PSYC-101

PSYC-420A SP TOP: SPORTS PSYCHOLOGY (3 Credits)
**Prerequisite(s):** Take PSYC-101

PSYC-420AA SP TOP: EXPERIMENTATION IN EATING (3 Credits)
**Prerequisite(s):** PSYC-202 AND PSYC-420Z

PSYC-420AB ANIMAL MODELS/HUMAN PSYCHOPATHOLOGY (3 Credits)
Aspects of human behavioral and cognitive dysfunction have been modeled in non-human primates and in rodents. These models give us insight into the potential environmental, neural, neurochemical, hormonal and genetic concomitants of human dysfunction. Our goal is to understand typical physiological functioning of neural circuits and malfunctioning associated with dysfunction. Our focus will be on nutrient intake, environmental exposures to toxins as well as on drug therapies. Particular topics may include advantages and limitations of animal models of: anxiety, obsessive-compulsive disorder, depression, ADHD, Parkinson's disease, schizophrenia, and some aspects of cognitive decline.

**Prerequisite(s):** TAKE PSYC-101

PSYC-420AC SP TOP: HEALTH PSYCHOLOGY (3 Credits)
Issues related to health are a national concern as obesity rates and the costs for health care rise. This course provides an overview for many topics in health psychology including addiction, illness, exercise, stress, diet, and sexual behavior. This course describes research methodologies from an evolutionary, social, cultural, political, and individual perspective. Current treatments and inventions for solving issues related to health are also introduced. In all, this course provides a diverse introduction to many topics, perspectives, and outcomes for research in health psychology.

**Prerequisite(s):** PSYC-101

PSYC-420AD SP TOP: RESEARCH IN HEALTH PSYCH (3 Credits)
Issues related to health are a national concern as obesity rates and the costs for health care rise. This course provides an overview for many topics in health psychology including addiction, illness, exercise, stress, diet, and sexual behavior. This course describes research methodologies from an evolutionary, social, cultural, political, and individual perspective. Current treatments and inventions for solving issues related to health are also introduced. In all, this course provides a diverse introduction to many topics, perspectives, and outcomes for research in health psychology.

**Prerequisite(s):** PSYC-202 AND PSYC-420AC

PSYC-420AE SP TOP: MEMORY (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

**Prerequisite(s):** PSYC-101

PSYC-420AF SP TOP: SOCIAL PSY OF FOOD & IDENTITY (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

**Prerequisite(s):** PSYC-101, SOC-101

PSYC-420AG SP TOP: PSYC OF TERRORISM (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

**Prerequisite(s):** PSYC-101

PSYC-420AH SP TOP: HEALTH ANALYTICS (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

**Prerequisite(s):** PSYC-101

PSYC-420AK SP TOP: LIFESPAN DEVELOPMENT (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

**Prerequisite(s):** PSYC-101

PSYC-420B SP TOP: LOVE & SEX (3 Credits)

PSYC-420C SP TOP: TESTS & MEASUREMENT (3 Credits)

PSYC-420D SP TOP: EVIL, FEAR & HORROR (3 Credits)
**Prerequisite(s):** Take PSYC-101

PSYC-420E SP TOP: SOCIAL INFLUENCE (3 Credits)
**Prerequisite(s):** Take PSYC-101

PSYC-420F SP TOP: HUMAN SEXUALITY (3 Credits)
**Prerequisite(s):** Take PSYC-101

PSYC-420G SP TOP: PRENATAL/INFANT DEV. (3 Credits)
**Prerequisite(s):** Take PSYC-101

PSYC-420H SP TOP: PSYCH & INTERNET (3 Credits)
**Prerequisite(s):** Take PSYC-101 or BIO-105

PSYC-420I SP TOP: NEUROPSYCHOLOGY (3 Credits)
**Prerequisite(s):** Take PSYC-101 or BIO-105

PSYC-420J SP TOP: POLITICS & PSYCHOLOGY (3 Credits)

PSYC-420K SP TOP: PSYC & INTERNET (3 Credits)

PSYC-420L SP TOP: PSYC & INTERNET (3 Credits)

PSYC-420M SP TOP: THEORIES OF MOTIVATION (3 Credits)

PSYC-420N SP TOP: THEORIES OF MOTIVATION (3 Credits)

PSYC-420O SP TOP: PSYCHOLOGY & HUMAN DEVELOPMENT (3 Credits)

PSYC-420P SP TOP: PSYCHOLOGY & HUMAN DEVELOPMENT (3 Credits)

PSYC-420Q SP TOP: PSYCHOLOGY & HUMAN DEVELOPMENT (3 Credits)

PSYC-420R SP TOP: PSYCHOLOGY & HUMAN DEVELOPMENT (3 Credits)

PSYC-420S SP TOP: PSYCHOLOGY & HUMAN DEVELOPMENT (3 Credits)

PSYC-420T SP TOP: PSYCHOLOGY & HUMAN DEVELOPMENT (3 Credits)

PSYC-421 SP TOP: PSYCHOLOGY & HUMAN DEVELOPMENT (3 Credits)
PSYC-420U Sustainable Behavior: Diet & Health (3 Credits)
Sustainability is meeting the needs of the present without compromising the ability of future generations to meet their needs. Our methods of obtaining food and water, the most fundamental of human needs, have an enormous impact on the environment that we use to satisfy those needs. This course will explore the primary scientific literature to understand the reciprocal influences between our biology of eating (evolution, culture, physiology) and the food-production system. Our goal is to understand how human preferences affect food choices in the context of a sustainable, ethical approach. After reading core materials, specific topics for in-depth reading will be negotiated by participants.
Prerequisite(s): PSYC-202 & Instructor Permission Required

PSYC-420V Sustainable Behavior: Diet, Health & Agi (3 Credits)
Sustainability is meeting the needs of the present without compromising the ability of future generations to meet their needs. Our methods of obtaining food and water, the most fundamental of human needs, have an enormous impact on the environment that we use to satisfy those needs. This course will explore the primary scientific literature to understand the reciprocal influences between our biology of eating (evolution, culture, physiology) and the food-production system. Our goal is to understand how diet affects disease and how disease manifests itself in behavior as we age. After reading core materials, specific topics for in-depth reading will be negotiated by participants. This course is geared toward students in the gerontology program.
Prerequisite(s): TAKE PSYC-202

PSYC-420W POSITIVE PSYCHOLOGY (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420Y PSYCHOLOGY OF LANGUAGE (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): TAKE PSYC-101

PSYC-420Z SPECIAL TOPICS: PSYCHOLOGY OF EATING (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): PSYC-101 OR PSYC-101C

PSYC-421 SENSATION & PERCEPTION (3 Credits)
Critical analysis of theories, methods of investigation, and data obtained in studies of sensory and perceptual processes, including the nature of physical stimulation, psychophysical methods form perception, space perception, constancy, spatially coordinated behavior and attention. Emphasis primarily but not exclusively on visual perception.
Prerequisite(s): Take PSYC-101

PSYC-422 COGNITION (3 Credits)
How do we think, and how can our thoughts processes be improved? The course will deal with contemporary approaches to the study of higher mental processes, with an emphasis on information processing. Topics will include memory, learning and problem solving. Theories and research will be considered, along with applications to everyday life.
Prerequisite(s): Take PSYC-101

PSYC-423 HUMAN MEMORY (3 Credits)
Why do we remember some things and forget others? This course will examine human memory by drawing on research from neuroscience, verbal learning, and educational psychology to better understand how our memory works and what we can do to improve it. Topics covered will include: false memories, retrieval practice, sapcing, memory loss and amnesia, animal models of memory, information processing, and working memory.
Prerequisite(s): Take PSYC-101

PSYC-433 PSYCH OF PERSONALITY (3 Credits)
A survey of the various approaches to the study of personality. Also included are the determination of personality development and the methods of appraising personality. (formerly PSYC 233)
Prerequisite(s): Take PSYC-101

PSYC-469 INTR CLNIC/METH-HUM.SERV (3 Credits)
Introduces Psychology majors to clinical methods and issues in human services in preparation for fieldwork experience. Areas that are covered include: ethics, assessment, interviewing, and psychopharmacology. The objective of this class is to furnish students with information and clinical skills that will enable them to provide direct service to clients, with appropriate supervision.
Prerequisite(s): Take PSYC-101
Restrictions: RG.24+

PSYC-470 TRNG/EDUC OF THE HANDICAPPED FLDWRK (1-3 Credits)
Prerequisite(s): Take PSYC-201 PSYC-215 PSYC-469

PSYC-471 ADOLESCENT REHAB. FIELDRK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-472 JUVENILE REHAB. FIELDRK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-472B ADV. JUVENILE REHAB. FIELDRK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-473 TREATMENT & CARE AGED FIELDRK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-474 COMMUNITY PSYCHOLOGY FIELDRK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-474A ADV. COMM. PSYCH. FIELDRK (1-3 Credits)

PSYC-474B ADV. COMM. PSYCH. FIELDRK (1-3 Credits)

PSYC-475 SCH.PSYCH.&GUID.COUN.FIELDRK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-475B ADV.COMM.PSYCH.FIELD WORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-476 BUSINESS & INDUSTRY FIELDRK (1-3 Credits)

PSYC-478 FIELDRK-TEACHING ASST (1-3 Credits)

PSYC-479 FIELDRK IN APP. PSYCH. RES. (1-3 Credits)

PSYC-480 IND.STY: LEARNING & MEMORY (1-3 Credits)
Independent Study in Learning and Memory

PSYC-481 IND.STY: SOCIAL PSYCH (1-3 Credits)
Independent Study in Social Psychology

PSYC-481A IND. STUDY-SOC.PSYCHOLOGY (1-3 Credits)

PSYC-481B IND STY:SPORT/EXERC.PSYCH (1-6 Credits)
Independent Study in Sport and Exercise Psychology

PSYC-482 IND. STUDY-ORGANIZATNL RESRCH (1-3 Credits)
Independent Study in Organizational Research
PSYC-482A IND.STUDY IN SOC.PERSONALITY I (6.00000 Credits)
PSYC-483 IND.STUDY-DEVELOPMENTAL PSYCH. (1-3 Credits)
Independent Study in Developmental Psychology
PSYC-483A ADV.IND.STY IN DEV.PSYCH. (1-6 Credits)
PSYC-483B IND STY: ADULT DEV & AGING (1-6 Credits)
Independent Study in Adult Development and Aging
PSYC-484 IND.STUDY-PERCEPTION (1-3 Credits)
Independent Study in Perception
PSYC-484A IND.STY: ADV. PERCEPTION (3 Credits)
PSYC-485 IND.STY:PHYSIOLOGICAL PSYC (1-3 Credits)
Independent Study in Physiological Psychology
PSYC-486 IND.STUDY-PERSONALITY (1-3 Credits)
Independent Study in Personality
PSYC-486A IND.STY: ADV. PERSONALITY (1-3 Credits)
PSYC-486B IND. STUDY-PERSONALITY (1-3 Credits)
PSYC-487 IND ST ADULT DEVELOPMENT & AGING (1-3 Credits)
PSYC-491 Res in Mechanisms and Evol of Behavior (3 Credits)
Restrictions: RGM.127

PSYC-492 RESEARCH IN COGNITIVE PSYCHOLOGY (3 Credits)
To comply with the University comprehensive examination requirements, psychology majors must complete a research course (Psyc 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and cognitive and memory to plan, conduct, and assess psychological research. Selected readings will include papers that provide perspectives on science in general, cognition, human learning and memory, problem solving, and metacognition. Students will work in groups to develop a project that will be executed this semester. Each student will write their own report on the project in an APA-formatted paper. Each group will design and present a poster at the department’s poster day at the end of the semester.
Prerequisite(s): Take PSYC-201, PSYC-202 AND PSYC-421
Corequisite(s): OR TAKE PSYC-422 OR yTAKE PSYC-423

PSYC-493 RESEARCH IN SOCIAL PSYCHOLOGY (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (Psyc 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and social psychology to plan, conduct, and assess psychological research.
Restrictions: RGM.127

PSYC-493A RESEARCH IN SOCIAL INFLUENCE (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (PSY 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and social influence to designing and examining research questions in social influence.
Prerequisite(s): Take PSYC-202
Restrictions: RGM.127

PSYC-494 RESEARCH IN PERSONALITY PSYCHOLOGY (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (Psyc 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and personality psychology to plan, conduct, and assess psychological research.
Prerequisite(s): Take PSYC-202 PSYC-433
Restrictions: RGM.127

PSYC-498 RESEARCH IN HEALTH PSYCHOLOGY (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (PSYC 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and health psychology to plan, conduct, and assess psychological research.
Prerequisite(s): Take PSYC-330, PSYC-201, PSYC-202 PSYC-420AH
Restrictions: RGM.127
PSYCHOLOGY LAB (PSYL)

PSYL-201 Psychological Research Lab I (0 Credits)
Corequisite(s): PSYC-101

PSYL-202 PSYCHOLOGICAL RESEARCH LAB II (0 Credits)
Corequisite(s): Take PSYC-202

PSYL-301 EXPERIMENT: ANIMAL LRN/MEM LAB (0 Credits)
A lecture and laboratory course emphasizing the techniques and procedures used in studying the lawful behavior pattern of lower organisms.
Corequisite(s): Take PSYC-301

PSYL-302 EXPERIMENT IN HUMAN MEM. & COGN. LAB (0 Credits)
A laboratory course exploring human memory, information processing and cognitive processes. The course will focus on experimental work, building from simple research to more complex designs, to develop a variety of research skills involved in such research.
Corequisite(s): Take PSYC-302

PSYL-303 EXPERIMENT: SOC. PSYC. LAB (0 Credits)
Laboratory course concerned with the scientific methods and procedures used in the study of social psychological phenomena. Includes uses of natural observation, questionnaire surveys, controlled laboratory experimentation, and other tactics of social research. Emphasizes special problems of research, such as social demand characteristics, deception, and experimental ethics.
Corequisite(s): Take PSYC-303

PSYL-304 PER LAB: EXPERIMENT & CORRELATION RESEARCH (0 Credits)
Collection, analysis, and interpretation of data which assess relationships between personality and behavior. Special emphasis on person-situation interaction. Assessment techniques and research associated with psychodynamic, phenomenological, cognitive, and trait theories. Data analysis using computerized multiple regression will be a part of the course.
Corequisite(s): Take PSYC-304

PSYL-307 EXPERIMENT IN ADULT DEVELOPMENT & AGING (0 Credits)
Corequisite(s): Take PSYC-307

PSYL-420AA SP TOP: EXPERIMENT IN EATING LAB (0 Credits)

PSYL-420AC SP TOP: HEALTH PSYCHOLOGY LAB (0 Credits)
Corequisite(s): Take PSYC-420AC

PSYL-420AD SP TOP: RESEARCH IN HEALTH PSYCH LAB (0 Credits)
Corequisite(s): Take PSYC-420AC
PHB-101 INTRO TO PUBLIC HEALTH (3 Credits)
An introductory course for Public Health majors that will explore the concepts surrounding public health and its influence on every individual. Topics within the course will focus on the determinants of health and disease and how interventions (laws, policies, healthcare) can improve the health of the population.

PHB-102 GLOBAL PUBLIC HEALTH (3 Credits)
An introductory course on global health that illustrates the health issues facing developing countries as related to access to healthcare, child and adolescent health and health disparities. Success stories and possible solutions to these global health problems will also be discussed.
Prerequisite(s): PHB-101
Restrictions: RG.PB

PHB-201 BIOSTATISTICS IN PUBLIC HEALTH (3 Credits)
An introductory course for Public Health majors that will provide a fundamental background to understand and interpret biostatistics in public health applications.
Prerequisite(s): PHB-101
Restrictions: RG.PB

PHB-202 MARKETING & COMMUNICATION IN PUBLIC HEALTH (3 Credits)
This course will teach students the essential components of communication and marketing for public health. Strategies to frame health marketing campaigns will be discussed so students will be prepared to apply these principles in multiple public health sectors including government, healthcare and community health organizations.
Prerequisite(s): PHB-101
Restrictions: RG.PB

PHB-301 HEALTH PROMOTION PROGRAMMING (3 Credits)
Public health professionals must be able to plan and evaluate health interventions. This course will introduce students to the broad range of public health programming options with applications to social science, global, community and environmental health.
Prerequisite(s): PHB-101
Restrictions: RG.PB

PHB-302 DIVERSITY & INCLUSION IN PUBLIC HEALTH (3 Credits)
Public Health in the United States has made great progress, but there are still health and life expectancy inequities in our country. This course will examine disparities and identify solutions to improve outcomes and patient satisfaction in diverse populations with the United States.
Prerequisite(s): PHB-101
Restrictions: RG.PB
SAINT BONAVENTURE COURSES (SBU)

SBU-101 COMMUNITY OF LEARNERS (2 Credits)
SBU 101 will introduce students to the characteristics and functions of community and community participation and provide frameworks to evaluate them. At the same time, SBU 101 will teach students about effective learning strategies to enhance their scholarly activities. By exploring facets of St. Bonaventure’s learning community, students will gain the understanding that learning is often a communal, not an isolated, process. This course is intended for first-year students in their first semester at the university.

SBU-102 AN INTRODUCTION TO CONTEMPORARY DIVERSITY (1 Credit)
Students begin to develop the language, intellectual framework, and empathy to understand many forms of diversity (especially people unlike themselves). By examining such issues in a contemporary context, students can engage in better-informed dialogue about current events and engage more actively as citizens of the modern world.

SBU-103 GENERAL EDUCATION INTERNSHIP (3.00000 Credits)
The General Internship is an elective course that will allow students to apply the skills and proficiencies they develop through the General Education curriculum in a professional setting. It allows students then to gain academic credit for professional work undertaken outside of that prescribed as part of a major or program requirement. Credit value will be determined by the department chair (or a designee within the department) in light of hours worked, responsibilities, and duration of the internship, with a rough guide of 50 hours of internship equivalent to one credit hour. Internships may be taken during the summer or during the academic year.

SBU-104 GENERAL EDUCATION SERVICE LEARNING (3.00000 Credits)
The General Service course is an elective course that will allow students to apply the skills and proficiencies they develop through the General Education curriculum to serving the needs of a defined community. As students draw on the ideas and skills developed through their General Education courses, they will through this service experience combine academic theory with real-life experience, understanding their academic work in light of their service to others, fostering their sense of civic engagement, and sharpening their insights into themselves and their places in their communities. It allows students then to gain academic credit for service work undertaken outside of that prescribed as part of a major or program requirement.
This course explores how and why the American public forms opinions about social and political issues, including an analysis of the role that media play in this socialization process.
SOC-325 CRIME IN A DIGITAL SOCIETY (3 Credits)
This course will serve as an introduction to an array of social issues pertaining to deviance and the rise of new media technologies. We will also aim to identify how and why these technologies are being used for these purposes. Additionally, we will explore ways that social institutions are often able to use these digital technologies to reduce social deviance and promote social order.

SOC-401 MARRIAGE & THE FAMILY, I (3 Credits)
In what sense is the family a natural building block of all societies? Is marriage a privileged relationship marked by intimacy and sexual fidelity in most societies? Do men and women observe a similar division of duties in the household everywhere? This course looks at selected examples of these institutions in cultures that have been until recently unrelated to our own, and at the development of marriage and the family in Western society prior to the modern era, in order to answer these and other related questions.

SOC-402 FAMILY VIOLENCE (3 Credits)
This course examines violence in the family system from Sociological, Criminological and human services perspectives. The course will focus on understanding the causes and effects of familial violence, including but not limited to partner violence, child abuse and neglect, sibling and elder abuse. The course will also explore the role of human services and law enforcement agencies as well as the legal system in addressing family violence. Current social policy will also be addressed.

SOC-407 SOCIOLOGY OF EDUCATION (3 Credits)
The basic thrust of this course will be found within the sociological frame of reference. The school, the formal instrument of education, is emphasized. Stress will be placed upon social change, value conflicts and the learning implications resulting from various social processes. Such factors as age, race, ethnicity, residence of students and teachers and the social structure of the community will be analyzed for the part they play in the learning process.

SOC-408 HEALTH AND ILLNESS (3 Credits)
Sociological conceptions of health and illness are analyzed. The medical hospitals, medical school, nursing school, mental institutions and their operation are examined in relation to the values of health personnel and patients. Sociological implications of rehabilitation practices in physical and mental illness are discussed.

SOC-412 SENIOR SEMINAR (3 Credits)
Prerequisite(s): TAKE SOC-206 & SOC-207
Corequisite(s): take SOC-208 or CRM-209
Restrictions: RGM.130

SOC-413 Minorities in the United States (3 Credits)
This course describes some of the principal aspects of intergroup relations in the United States. It is a synopsis and evaluation of what sociologists and other social scientists have learned about America’s minorities, the nature of prejudice, the extent of discrimination and the reactions of minority group members to differential treatment.

SOC-420 SP. TOP. IN CRIMINOLOGY (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

SOC-420A CRIMINOLOGICAL FIELDWORK (3-6 Credits)
SOC-420B SP TOP. SOC OF ADOLESCENCE (3 Credits)
SOC-420C SP. TOP. MULTICULTURAL AGING (3 Credits)
SOC-420D SPECIAL TOPICS: URBAN SOCIOLOGY (3 Credits)
Various special topics of current interest in sociology will be offered from time to time. Topics will be announced before registration. May be taken more than once but only three (3) credits will be counted toward the first 30 hours in the sociology major.

SOC-420E SP TOP. SOCIAL MEDIA & SOCIETY (3 Credits)
Various special topics of current interest in sociology will be offered from time to time. Topics will be announced before registration. May be taken more than once but only three (3) credits will be counted toward the first 30 hours in the sociology major.

SOC-420F SP TOP. AMERICAN WEST (3 Credits)
Various special topics of current interest in sociology will be offered from time to time. Topics will be announced before registration. May be taken more than once but only three (3) credits will be counted toward the first 30 hours in the sociology major.

SOC-420G SP TOP. RELIGION AND RACE (3 Credits)
SOC-420J SP TOP. MEDIA AND POLITICS (3 Credits)
SOC-420K SP TOP. SOCIOLOGY OF ECONOMIC LIFE (3 Credits)
Various special topics of current interest in sociology will be offered from time to time. Topics will be announced before registration. May be taken more than once but only three (3) credits will be counted toward the first 30 hours in the sociology major.

SOC-420L SP TOP. SOC MEDIA IN A CHANGING WORLD (3 Credits)
SOC-420M SP TOP. MEDIA & PUBLIC OPINION (3 Credits)
SOC-420N SP TOP. AMER WILDERNESS & ENVIRONMENT (3 Credits)
SOC-420O SP TOP.: FAMILY VIOLENCE (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

SOC-425 SP TOP IN SOCIOLOGY (3 Credits)
An intensive study in a particular area or topic in Sociology or its application. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

SOC-425A SP TOP. DIVERSITY (3 Credits)
An intensive study in a particular area or topic in Sociology or its application. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

SOC-425B SP.TOP. STRESS, CULTURE & RESILIENCE (3 Credits)
This course examines the impact of stress upon the body and mind. In addition it explores those subtle yet powerful social forces that combine to often create a heightened sense of anxiety the if often pervasive within our culture. Finally the concept of ‘resilience’ is examined as a way to more effectively perceived and deal with the challenges life often presents.
SOC-430 ADVANCED READING COURSE (1-6 Credits)
This course is based on the belief that the outstanding student should be encouraged to do independent study to obtain a mature knowledge in a chosen field in the last year of the undergraduate program. The objective of this course is to enable sociology majors as they complete their undergraduate program to renew their grasp of the essential concepts and issues as seen through the eyes of recognized authorities and to appreciate and comprehend the gamut of human relations as an integrated whole.

SOC-430C WOMEN AND VIOLENCE (3 Credits)

SOC-430D SP TOP: NATIVE AMERICANS (3 Credits)
This course is based on the belief that the outstanding student should be encouraged to do independent study to obtain a mature knowledge in a chosen field in the last year of the undergraduate program. The objective of this course is to enable sociology majors as they complete their undergraduate program to renew their grasp of the essential concepts and issues as seen through the eyes of recognized authorities and to appreciate and comprehend the gamut of human relations as an integrated whole.

SOC-430E SP TOP: GENDER & SEXUALITY (3 Credits)
This course is based on the belief that the outstanding student should be encouraged to do independent study to obtain a mature knowledge in a chosen field in the last year of the undergraduate program. The objective of this course is to enable sociology majors as they complete their undergraduate program to renew their grasp of the essential concepts and issues as seen through the eyes of recognized authorities and to appreciate and comprehend the gamut of human relations as an integrated whole.

SOC-430F IND ST: WILDERNESS, CULTURE & THE ENVIRONMENT (3 Credits)
Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

SOC-430H ADVANCED READING COURSE (3 Credits)
Restrictions: RG.HON
SPANISH (SPAN)

SPAN-ELEC SPANISH ELECTIVE (3 Credits)

SPAN-101 ELEM. SPANISH I (3 Credits)
The fundamentals of Spanish grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

SPAN-102 ELEM. SPANISH II (3 Credits)
The fundamentals of Spanish grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

Prerequisite(s): Take SPAN-101

SPAN-201 INTERMED SPANISH I (3 Credits)
Intermediate-level Spanish grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.

Prerequisite(s): Take SPAN 102

SPAN-202 INTERMED SPANISH II (3 Credits)
Intermediate-level Spanish grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.

Prerequisite(s): Take SPAN-201

SPAN-225 HISPANIC WOMEN WRITERS (3 Credits)
Offered in English. Students will study literature written by women in the Hispanic world from the past to the new millennium. Selected works will be approached from historical, literary, social, and political perspectives for a critical modern understanding of women's roles, issues and their contributions to the humanities in the past and in contemporary Hispanic societies. Can be taken for credit by majors and minors as the one department course in English allowed. 3 Credits. On occasion.

SPAN-301 COMP & CONVERSATION I (3 Credits)
Developing competence through conversation, composition, and reading. Special emphasis on literary texts and cultural materials.

Prerequisite(s): Take SPAN-202

SPAN-303 ADV GRAMMAR & COMP I (3 Credits)
Advanced language study stressing composition, conversation and a comprehensive review of Spanish grammar.

Prerequisite(s): Take SPAN-301

SPAN-305 LATIN AMER CIV & CULTURE I (3 Credits)
A study of the cultural and social life of pre-Columbian Latin America, continuing with the political, social and cultural changes brought about by colonization and nationalization.

Prerequisite(s): TAKE SPAN-303

SPAN-307 LATIN AM CULT AND CIVILIZATION II (3 Credits)
A study of Latin America, its social, political and cultural institutions in the 20th century, including major cultural issues and changes in modern Latin American societies.

Prerequisite(s): TAKE SPAN-303

SPAN-309 SPAN CIVILIZATION & CULTURE (3 Credits)
A study of the Spanish character and of Spain’s major contributions to world civilization from the past to the present. It traces Spain’s cultural evolution from early invasions: Celts, Goths, Visigoths, Iberians to Jews, Moslems, and Christians cultures in Medieval Spain with their traditions, customs, art, gypsy cultures dance and music to Spanish Civil War, the Franco Regime, and the Spanish transition to democracy.

SPAN-322 SPAN LIT. TRANSLATION II (3 Credits)
Offered in English, this course introduces the principal works of major novelists, poets and playwrights from 1700 to present day, including representative authors such as Unamuno, Machado, Garcia Lorca, Laforet, Matute and others. No previous knowledge of Spanish is required. Can be taken for credit by majors and minors as one department course in English allowed.

SPAN-324 LATIN AM LIT. IN TRANSLATION (3 Credits)
Offered in English, this course is designed to expose the reader to the major authors of the Latin American canon. Representative authors will include: Gabriel Garcia Marquez, Pablo Neruda, Jorge Borges, Mario Vargas Llosa, Isabel Allende among others. Can be taken for credit by majors and minors as the one department course in English allowed.

SPAN-325 HISPANIC WOMEN WRITERS (3 Credits)
Offered in English. Students will study literature written by women in the Hispanic world from the past to the new millennium. Selected works will be approached from historical, literary, social, and political perspectives for a critical modern understanding of women's roles, issues and their contributions to the humanities in the past and in contemporary Hispanic societies. Can be taken for credit by majors and minors as the one department course in English allowed.

SPAN-335 SP.TOP:MODERN LANG-LANG (3 Credits)
Directed reading and research in topics dealing with the language and grammar of Spanish. May be taken more than once for a maximum of 6 credits.

Prerequisite(s): TAKE SPAN-301

SPAN-401 SURVEY OF MID. AGE LITERATURE (3 Credits)
An introduction to various texts, both canonical and non-canonical, of the Spanish Middle Ages. Major historical events and cultural influences affecting the Iberian peninsula from 711-1492 are closely examined, in tandem with the literature. Genres include the lyric, epic and popular poetry, early drama, and short prose, with an emphasis on the exempla. Relevant literary theory is taught as required, along with techniques in critical analysis, to elucidate key concepts.

Prerequisite(s): TAKE SPAN-303

SPAN-401S SURVEY OF MID. AGE LITERATURE (3 Credits)
Prerequisite(s): TAKE SPAN-303

SPAN-402 SURVEY OF GOLDEN AGE OF LIT. (3 Credits)
An introduction to various canonical and non-canonical works of the 16th and 17th centuries, including poetry, drama, short prose, and the early novel. Principal authors include Santa Teresa de Avila, Maria de Zayas y Sotomayor, Luis de Gongora y Argote, Garcilaso de la Vega, Felix Lope de Vega, Tirso de Molina, Pedro Calderon de la Barca, Fray Luis de Leon, Miguel de Cervantes, Baltasar Gracian, San Juan de La Cruz, Francisco de Quevedo, and Garcia Rodriguez de Montalvo. Some literary theory is taught, as relevant, as are approaches to critical analysis.

Prerequisite(s): Take SPAN-303

SPAN-403 SURVEY OF XIXTH & XXTH CENTURY (3 Credits)
A study of major authors, works, trends, and movements from the Romantic Period to the 20th century. Includes selective writers such as Zorrilla, Becquer, Galdos, Pardo Bazan, Valera, Valle-Inclan, Benavente, Garcia Lorca, Jimenez, Matute, Rivas, and others.

Prerequisite(s): TAKE SPAN-303
SPAN-403Z Graduate Spanish (3 Credits)
An introduction to the principal authors, works and movements of Latin American Literature from Pre-Columbian literatures to Modernism. Includes writers such as Las Casas, Ercilla, Inca Garcilaso de la Vega, Sor Juana Ines de la Cruz, Hernandez, Marti, Dario, and others.
Prerequisite(s): TAKE SPAN-303

SPAN-407Z GRADUATE SPANISH (3 Credits)
An introduction to the principal authors, works and movements of Latin American Literature from 'Post Modernismo' to the present. Includes writers such as Mistral, Paz, Neruda, Vallejo, Borges, Garcia Marquez, Vargas Llosa, Cortazar, Pontiatsowska, Allende, and others.
Prerequisite(s): TAKE SPAN-303

SPAN-408 SURVEY OF LAT AMER LIT II (3 Credits)
An introduction to the principal authors, works and movements of Latin American Literature from 'Post Modernismo' to the present. Includes writers such as Mistral, Paz, Neruda, Vallejo, Borges, Garcia Marquez, Vargas Llosa, Cortazar, Pontiatsowska, Allende, and others.
Prerequisite(s): TAKE SPAN-303

SPAN-409 SPANISH (3 Credits)
SPAN-413 SEMINAR IN SPANISH (3 Credits)
Professional Semester.

SPAN-414 XIXTH CENTURY LITERATURE (3 Credits)
A detailed study of representative works from the Realist and Naturalist movement in Spain. Representative authors might include Pérez Galdós, Pardo Bazán, Clarín and Caballero.

SPAN-415 XXTH CENTURY LITERATURE (3 Credits)
A detailed study of recent Peninsular Literature and its various genres (novel, short story, poetry, and drama) from the twentieth century to the present masterpieces of famous writers such as Lorca, Unamuno, Guillen, Alexaindre, Matute, Cela, Goytisolo, Laforet, Martin Gaité, Sastre, Montero, and other authors will be discussed and examined.
Prerequisite(s): SPAN-303

SPAN-419 CONT HISPANIC FILM & LIT (3 Credits)
Analysis and appreciation of selected contemporary Hispanic literary works, their film adaptations, and their social and cultural contexts.
Prerequisite(s): SPAN-303

SPAN-425 GENERATION OF 1898 (3 Credits)
A detailed study of novelist, poets, playwright, and philosophers who characterized the fitful intellectual generation post Spanish-American War. Representative authors include Unamuno, Azorín, Machado, Baroja and Valle-Inclán.
Prerequisite(s): Take SPAN-303

SPAN-426 HISPANIC THEATER (3 Credits)
A detailed study of representative theater texts and performances from post-Golden Age Spain to the present as well as from Latin America. Representative authors include: Garcia Lorca, Arrabal, Usigll, Cabal, Saste, Benet I Jornet among others.
Prerequisite(s): TAKE SPAN-302

SPAN-435 SP TOP: FICTION & CULTURE IN HISPANIC FILMS (3 Credits)
Directed readings and research in topics dealing with Hispanic cultures and literatures. May be taken more than once for a maximum of 6 credits.

SPAN-435G SP TOP: TEATRO Y SOCIEDAD EN EL SIGLO XX (3 Credits)
Directed readings and research in topics dealing with Hispanic cultures and literatures. May be taken more than once for a maximum of 6 credits.

SPAN-450 COMPREHENSIVE EXAM (0 Credits)
Students who are graduating with a major in Spanish must register for this course in the semester of their official graduation. Students who are majoring in Modern Languages must register for this course if Spanish is their primary language. Registering in this course will enable students to take the required Comprehensive Exam. A grade of 75% will be necessary to pass the exam and the class.
SPECIAL EDUCATION (SPED)

SPED-ELEC SPECIAL EDUCATION ELECTIVE (3 Credits)

SPED-230 INTRO TO SPECIAL EDUC. (3 Credits)
This course surveys the major areas of exceptionalities as defined under current federal special education legislation. Topics include: history of special education, legal requirements and laws relating to individuals with disabilities including, categories of exceptionality including but not limited to autism, characteristics, identification, intervention strategies, role of parents/families and cultural diversity and language issues. Field component 15 hours observation (mandatory).

SPED-230H INTRO TO SPEC EDUC-HONORS (3 Credits)
Restrictions: RG.HON

SPED-340 CLASSR/BEHAVIORAL MGMT (3 Credits)
In this course students are introduced to multi-tiered supports systems (MTSS) or school wide positive behavior supports (SWBPIS). These principles are applied to individual classroom settings, emphasize good instruction, organization of space and materials, and positive feedback (tier 1 & 2 interventions). Students will apply these principles by creating a functional behavior analysis (FBA) and a behavior intervention plan (BIP) focused on one student (tier 3 interventions). Legal and ethical issues are also addressed.
Prerequisite(s): SPED-230 & EDUC-101 or SPED-230 & EDUC-201
Restrictions: RGALLED

SPED-350 INSTRUCTIONAL DESIGN FOR ALL LEARNERS (3 Credits)
This course gives candidates a foundation in standards-based instructional design for a variety of learners. Topics include lesson planning, standards-based lesson design, use of learner information to design appropriate lessons, designing assessments, developing interdisciplinary lessons, models of instruction, Universal Design for Learning and incorporating technology use into instruction. This course focuses on designing instruction to meet the needs of most learners in inclusive classrooms, including those with high-incidence disabilities including but not limited to autism, English Language Learners, and gifted learners. Students in this course will be required to log hours in a supervised technology lab to complete assignments and master necessary computer skills. Field components: 35 hours tutoring.
Corequisite(s): SPED-350L

SPED-350L INSTRUCTIONAL DESIGN FOR ALL LEARNERS Lab (0 Credits)
This course introduces students to the essential components of professional use of technology. Assignments will enhance competence with the use of a variety of technology-based tools used by the teacher for instruction and other professional work. Students in this course will be required to log hours in a supervised technology lab to complete assignments and master necessary technology skills.
Prerequisite(s): EDUC-101 or EDUC-201

SPED-430 ASSESSMENT CHILDREN W/ EXCEPTIONALITIES (3 Credits)
The course content is designed to provide an overview of the continuum of assessment procedures for designing academic programs for students with mild/moderate disabilities. A variety of assessment strategies, including authentic assessment and curriculum-based assessment, along with criterion-referenced tests and norm-referenced tests are introduced. Alternative testing procedures and communicating assessment results to parents of a child with exceptionality are also considered.

SPED-440 ADAPT/INSTR SPEC.NEEDS STUD. (3 Credits)
This course examines alternative organizational strategies for integrating students with disabilities into regular education settings. Students learn the roles of special education personnel in successful inclusion efforts and review procedures for promoting interactions of students with exceptionality and their regular education peers. Additionally, curriculum adaptations to promote learning for all students are addressed.
Restrictions: RGALLED

SPED-450 ADV TCH METH FOR SPEC EDUCATION (3 Credits)
The course focus is on characteristics of and educational implications for individuals with severe and/or multiple disabilities. Students develop skills and strategies in positioning, assistive technology, teaching self-care skills, functional academics, community skills, recreational and leisure skills, developing instructional adaptations, and transitional and vocational programs.
Prerequisite(s): TAKE SPED-440

SPED-451 RESEARCH-BASED SVC LEARN - DISABILITIES (1 Credit)
For this community-based learning course, students will contract with the professor to participate in a socially significant learning experience with or on behalf of children, youth, or adults with significant disabilities. The course is approached from a critical, disabilities studies perspective. Service learning experiences facilitating inclusion of individuals with disabilities in school and community life are especially valuable.
Prerequisite(s): Take SPED-450 OR SPED-460

SPED-455 CURRICULUM & METHODS FOR STUDENTS WITH DISABILITIES (3 Credits)
This course prepares beginning teachers to meet the needs of a variety of learners with disabilities, including but not limited to those with Autism Spectrum Disorders, intellectual disabilities and multiple disabilities. Students will examine curriculum and develop instructional plans to address academic, functional, social and communication needs. Students will also examine the varied ways that services are provided to learners with disabilities in schools today. Field Component 25 hours active participation in settings working with students with disabilities (mandatory).
Corequisite(s): EDUC-401

SPED-460 COMM/COLLAB SKILLS EDUCATORS (3 Credits)
This course centers on the development of competencies in communication and collaboration. Those skills necessary for fostering successful integration and full inclusion of students with disabilities are addressed. In addition, strategies for collaboration with agencies, other specialists, families and classroom teachers are presented. Concurrent with student teaching.
Restrictions: RGALLED
BSM-200 SPORTS MANAGEMENT PRACTICUM I (1 Credit)
Introduction to game and event administration. Required minimum 50 hours of on-site game administration, including assisting in the planning, organizing and conducting of St. Bonaventure intercollegiate athletic events during a given semester.
Prerequisite(s): Take MGT-329 BSM-201 and Sophomore Sports Management major
Restrictions: RG.BSM

BSM-201 SPORT FACILITY & EVENT MANAGEMENT (3 Credits)
This course is designed to provide students with information and practical knowledge and skill competencies needed for facility and event management. A major emphasis will be on identifying management strategies, policy development, strategic planning and governance structures.

BSM-300 SPORTS MANAGEMENT PRACTICUM II (1 Credit)
Introduction to athletic administration. Required minimum 50 hours of on-site administration focusing on concentration area and conducted with St. Bonaventure intercollegiate athletic department.
Prerequisite(s): Take MGT-329, MKT-309, BSM-200 and Junior Sports Management major
Restrictions: RG.BSM

BSM-301 SPORTS PROMOTION & SALES MANAGEMENT (3 Credits)
This course prepares students with the basic knowledge and skills necessary for a career in sales. Students explore and understand successful sales and promotion behaviors to meet the goals of an organization. Course topics include the selling principles and techniques, creating value, negotiation, closing the sale, as well as how to motivate, compensate and train sales people.
Prerequisite(s): Take MKT-309 and BSM-201

BSM-400 SPORTS MANAGEMENT MAJOR INTERNSHIP (3 Credits)
The internship takes place upon completion of all sport related coursework and exposes students to field experience with the business world of sports.
Prerequisite(s): Take BSM-200, BSM-300 and Senior Sport Management major
Restrictions: RG.BSM

BSM-401 STRATEGIC MANAGEMENT IN SPORT ORGANIZATIONS (3 Credits)
Students in this course learn the principles of managing a sport organization and gain a broad overview of the sports business marketplace while examining the theoretical underpinnings of leadership through the sports industry and various sport organizations. Students will study skills related to strategic planning and creative problem solving, leader behaviors, characteristics and cognitive dimensions of leadership.
Prerequisite(s): Take BSM-200, BSM-300 and Senior Sport Management major
Restrictions: RG.BSM
SPORTS STUDIES (SPST)

SPST-209 MOTOR LEARNING (3 Credits)
This course is designed to provide a basic introduction to the field of motor learning. Primary consideration given to the acquisition of motor skills, factors that influence skill learning, and the effectiveness of various instructional strategies. This course shall be directed toward individuals preparing for a career in which motor skill instruction is an important part of the job, as is the case of physical education teachers, coaches, dance instructors, physical and occupational therapists, athletic trainers, and instructors in military and industrial training settings.

SPST-415 PSYCHOSOCIAL ASPECTS OF HUMAN MOVEMENT AND PHYSICAL ACTIVITY (3 Credits)
The class will focus on a multitude of factors influencing sport, leisure, and motor behavior. Questions of how social psychological variables influence motor behavior and how physical activity affects the psychological make up of an individual will be explored.
Restrictions: RGC.105
STATISTICS (QMX)

QMX-210 QUANTITATIVE APPLICATION FOR BUSINESS STUDENTS (3 Credits)
An introduction to quantitative techniques used in business, including real-world application problems, linear equations and inequalities, systems of equations, basic notions from the mathematics of finance, including simple and compound interest, annuities, amortization, graphical methods for solving linear programming optimization tasks, along with an introduction to calculus. Course opened to business majors only.

Restrictions: RG.BUS

QMX-211 INTRODUCTION TO STATISTICS (3 Credits)
The course involves analysis of descriptive statistics. Emphasis is placed on graphical methods, measures of central tendency, measures of variability and their application to the 'real world.' Major emphasis is placed in presenting an introduction to probability and its applications. Random variables and their distribution are discussed along with mathematical expectation and useful discrete probability distributions. The course concludes with a detailed discussion of the normal probability distribution, sampling distributions and the use of confidence intervals for statistical inference. Computer usage is required throughout.
Prerequisite(s): Take MATH-122 QMX-210 or MATH-151

QMX-211A STATISTICS I (3 Credits)
QMX-212 STATISTICAL APPS FOR BUSINESS (3 Credits)
A review of confidence intervals for statistical inference is followed by an extensive discussion of hypothesis testing for both large and small samples. An in-depth study of analysis of variance precedes detailed work on linear regression, multiple regression and correlation. Analysis of enumerative data including chi-square and a study of non-parametric statistics concludes the course. Survey sampling techniques permeate the course, along with a focus on the application of statistical techniques in business. Computer usage is required throughout.
Prerequisite(s): Take QMX-211

QMX-212I STATISTICS II (3 Credits)
QMX-322 INTRO TO BUSINESS ANALYTICS (3 Credits)
An overview of quantitative techniques used in managerial decision analysis. Decision theory concepts are introduced with an emphasis on descriptive analytics and visualization techniques.
Prerequisite(s): Take QMX-212
**STRATEGIC COMMUNICATION (SC)**

**SC-210 SOCIAL MEDIA IN SOCIETY/BUSINESS (3 Credits)**
This course is designed to introduce students to developments in social media that are transforming the way we live and communicate. The class objectives are to provide students with an understanding of how those social tools relate to the practice of strategic communications including marketing, advertising, public relations, and nonprofits, as well as the impact of the social media such as wikis, Twitter, YouTube, personal blogs, Facebook and other relevant tools. Students will participate in virtual community discourse, create content and interact with other professionals in the field and reflect critically on the experience. New applications and social networks will come and go. However, this course will help foster the skill of applying the core principles and practices of strategic communications to social media in productive, creative and intelligent ways. It will also encourage students to be flexible, open to new communication channels and willing to experiment.

**Prerequisite(s):** Take JMC-101

**SC-220 DIGITAL CONTENT & ENVIRONMENT (3 Credits)**
As the field of communication evolves, so too does the need to write well across platforms. This course explores various kinds of content development, social media engagement and writing touching on the fields of social media, web-based publications, public relations, and business communication.

**Prerequisite(s):** Take JMC-111

**Restrictions:** RG.45+

**SC-301 STRATEGIC WRITING & PROFESSIONAL COMM (3 Credits)**
This business writing course helps develop business writing and strategic communication skills by teaching and practicing a wide variety of writing initiatives. Students will also create and deliver professional quality oral presentations.

**Prerequisite(s):** Take ENG-101

**SC-302 GLOBAL MARKETING & COMMUNICATION (3 Credits)**
This course trains students to build successful global business relationships by studying other cultures and proper business training to understand the intricate processes of accomplishing business and strategic communications in a global environment. Set in the context of intercultural business communications, the focus will be on understanding the role of culture & language, cultural rules for establishing relationships, creating and organizing resonate messages, import and export laws, comparative management and communication styles, business protocol, etiquette and Franciscan business ethics, rooted in the tradition of Luca Paccioli.

**SC-303 DIGITAL MARKETING (3 Credits)**
This course underscores the importance that digital channels play in marketers’ media options while building a proficiency in new media channels and digital marketing. As new developments in the media landscape continue to impact marketers and communication specialists, the multi-channel work of new media presents companies with enormous opportunities and considerable challenges. Students will be able to understand new media and digital marketing options, including these opportunities and challenges, so they can harness the power of 'Digi-Marketing’ to grow a business in a strategic communications environment.

**SC-304 SOCIAL MEDIA STRATEGY & ENGAGEMENT (3 Credits)**
Social media continues to re-write the ways marketing communicators and businesses connect with customers. Social media today is the front door for any business; globally, consumers interact with brands and each other first on social media platforms, before visiting a company’s website, an online merchant, or a retail store. Business-to-consumer marketers must now create engaging digital interactions that acknowledge and respect their customers’ voices and needs - or risk losing customers to more agile social media marketers. This course is designed to help you understand how a palette of digital interactions and resources - including content marketing, public relations, online advertising, and other marketing techniques - will equip you to build social media marketing strategies that captivate online customers. The course will also help you understand relevant industry structures, tools, and support resources that enable you to effectively participate in, and lead, a social media marketing process. Successful completion of the course will give you the insights, knowledge and practical skills to develop marketing strategies that leverage opportunities inherent in social media and consumer-to-consumer social interactions for achieving business goals. While social media has re-shaped how marketers share information across consumers and brands, all social media share three traits: they are always digital, they are always participatory, and they are always shareable. Note: this course is not a survey of online social media platforms that you know from using Facebook, twitter, Instagram, Snapchat, TikTok, etc. Such topics are covered in SC 210. These platforms are important, but we will go beyond these platforms to broaden students’ perspectives and train you to approach Social Media Marketing from a communications strategist’s viewpoint, rather than someone who tweets. To do this, we will look at audiences’ social interactions, mechanisms (dashboard apps, analytic resources, etc.), various social media channels, and strategies and tools that you can use to market successfully on these platforms and track your programs’ effectiveness.

**SC-305 MEASUREMENT:SEO/SEM/ANALYTICS (3 Credits)**
With ever-evolving communication technologies and communication tools, knowledge of SEO, SEM and analytics is increasingly important for communication practitioners. This course includes the basics of each with emphasis on implementation and evaluation.

**SC-320 PRINC & PRACT OF PUB RELATIONS (3 Credits)**
An introductory public relations course that examines the research assessments of the organization public relations environment, establishing goals and objectives, selecting appropriate courses of communication action, implementing those communication programs and evaluating performance. The goal is to familiarize students with the background and content of public relations management, helping them to understand the nature of managerial and ethical responsibilities of public relations practitioners.

**SC-330 THE ADVERTISING CAMPAIGN (3 Credits)**
The class will function as a full-service advertising agency in workshop format, encompassing an overview of advertising as the creative message in print, radio and television. Students will concentrate on the development of an advertising campaign for a particular client, readily demonstrating a strong command of media planning and research, layout, design, copywriting and conceptual thinking.
SC-340 COPYWRITING: FINDING YOUR VOICE (3 Credits)
The focus of this class is the creative process through which advertising comes into being. By going through the conceptual, writing, visualization and executional steps, the student will gain an understanding of the way the creative process works: the strategic thinking, the drawing on reservoirs of knowledge from other liberal arts courses, the concepting, the trial-and-error, the intense executional discipline, the reworking, polishing and refinement, and the final presentation of one's finished work, in printed form, to either one's creative director or your client.

SC-341 MULTIMEDIA COPYWRITING (3 Credits)
This course will teach you to write lean digital copy that fuels a content marketing strategy, and engages your audience in social media, infographics, website content, and online video. Our goal is to engage audiences - consumers, employees, donors and more - and to compel them to connect with your organization and its message beyond 'likes.' You will create messages that shape a brand story they'll remember.

SC-350 SPORTS STRATEGIC COMMUNICATION (3 Credits)
This course examines the world of professional and amateur athletics from the tangent of the strategic communication problems inherent in each of the major sports. It aims to provide a historical perspective on the commercialization of college and amateur athletics, as well as a critical look at professional sports in the western world and North America.

SC-355 SPORTS MEDIA RELATIONS (3 Credits)
This course shows how and when the sports industry needs PR experts. It examines how public relations issues arise in the sports business and how PR approaches and thinking may be used to solve them by exploring the connection between strategy and communication as they apply to sports and PR. The course teaches the strategic and critical thinking essential for PR work and explores other various skills necessary in sport communications, including specialized areas of the field.

SC-401 SPECIAL TOPICS IN STRAT COMM/DIG MEDIA (1-3 Credits)
The course gives students the opportunity for in-depth study of Strategic Communication and Digital Media-related issues and topics. Students may also arrange for planned independent study in Strategic Communication and Digital Media under the guidance of a faculty adviser. School permission required.

SC-401A SP TOP COPYWRITING (3 Credits)
The course gives students the opportunity for in-depth study of Strategic Communication and Digital Media-related issues and topics. Students may also arrange for planned independent study in Strategic Communication and Digital Media under the guidance of a faculty adviser. School permission required.

SC-420 PUBLIC RELATIONS CAMPAIGNS (3 Credits)
This upper-level public relations class examines various case studies of public relations campaign strategies. The general intent is to place the student in a managerial, decision-making role in which the primary requirement is to think in planning and program-execution terms. Further, the student will be introduced to the formal rules of strategy selection, once goals have been specified, by appeals to the literature base covering the subject of decision theory and management theory.

SC-422 INTERNAL ORGANIZATIONAL RELATIONS (3 Credits)
This course will familiarize students with organizational relations and communication and allow them to put what is learned into practice. Students will learn the various and numerous publics and audiences in an organization and how to interact and deal with each. Different organizations and different industries will be discussed. Students will have an opportunity to discuss their own experiences as well as examine how to put teachings into practice.

Prerequisite(s): Take JMC-320

SC-425 COMMUNICATION IN CONFLICT (3 Credits)
Communication in conflict will look at a history of conflict from organized labor to regional and world conflicts with a focus on crisis communication and planning. This class will also emphasize diversity in culture and other factors as an antecedent to conflict. New technologies, globalization, and current issues and crises will be discussed.

Prerequisite(s): Take JMC-111

SC-426 HEALTH COMMUNICATION (3 Credits)
Health communication will focus on stakeholders and publics in health care, the differences in communication in a health care setting, and the limitations and challenges with health communication. This class will also look at new technologies and current issues in health and sectors as well as worldwide public health concerns and trends as they relate to mass communication.

Prerequisite(s): Take JMC-111

SC-430 AAF CASE STUDY (3 Credits)
This course serves as the capstone advertising class, providing students with the opportunity to design a strategic advertising and media campaign for a corporate sponsor. Students present the finished campaign to various industry executive at the American Advertising Federation’s National College Competition in the spring semester. This campaign project is recognized nationally as the ‘College World Series of Advertising.’

SC-450 STORYTELLING WITH DATA (3 Credits)
Analytics, big data analysis and geographic informationsystems (GIS) have transformed the way the strategic communicators work. Growing dependence on visual displays of data to ease understanding of traditional communication concepts is the norm. Students will learn to present data and tell a story using numbers and associated graphics. Students will learn to use data in developing strategic communication campaigns both internal and external.

Prerequisite(s): Take JMC-399

SC-497 Agency Experience: Synapse I (3 Credits)
Synapse Matters offers students the opportunity to act as associates of a marketing communications consultancy in a business setting on campus. Students will learn valuable leadership, customer service and client relations, sales, budget and business skills. As with any wide-ranging consultancy, Synapse may draw on outside experts for lectures on specific subjects (e.g. law, ethics). Additionally, students will foster an atmosphere of service learning, teamwork and professionalism by working on both for-profit and not-for-profit campaigns with real clients.

Prerequisite(s): TAKE JMC-202
SC-497A SYNAPSE: SYMPHONIC THINKING IN ACTION (6 Credits)
Synapse Matters offers students the opportunity to act as associates of a marketing communications consultancy in a business setting on campus. Students will learn valuable leadership, customer service and client relations, sales, budget and business skills. As with any wide-ranging consultancy, Synapse may draw on outside experts for lectures on specific subjects (e.g., law, ethics). Additionally, students will foster an atmosphere of service learning, teamwork and professionalism by working on both for-profit and not-for-profit campaigns with real clients.

SC-498 Agency Experience: Synapse II (3 Credits)
Synapse Matters offers students the opportunity to act as associates/employees of a marketing communications consultancy in a business setting on campus. Students will learn valuable leadership, customer service and client relations, sales, budget and business skills. As with any wide-ranging consultancy, Synapse may draw on outside experts for lectures on specific subjects (e.g., law, ethics). Additionally, students will foster an atmosphere of service learning, teamwork, and professionalism by working on both for-profit and not-for-profit campaigns with real clients. This course continues the work of SC 497.
Prerequisite(s): TAKE SC-497

SC-499 COMPREHENSIVE EXPERIENCE (0 Credits)
Students in the Strategic Communication program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select from a position and 'apply' for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of the faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric. Students will either pass or fail. Students who fail will have until the end of spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours are completed.
Restrictions: RG.71+

SC-499A COMPREHENSIVE EXPERIENCE (0 Credits)
Students in the Strategic Communication program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select from a position and 'apply' for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of the faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric. Students will either pass or fail. Students who fail will have until the end of spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours are completed.
THEATRE (THTR)

THTR-101 INTRODUCTION TO THEATER (3 Credits)
This survey course traces the development of theater production and performance through scripts and audiovisual documentation. The perspective is global and includes theater from Asia, Africa and Latin America as well as Europe and the U.S. Various styles of acting and directing are discussed, as is the development of various methods of staging and stage technology. The ‘who, how, what, when and why’ of theater.

THTR-130 STAGECRAFT & THEATER TECH. (3 Credits)
This course is a lab in basic theater technology—set building, painting and finishing; lighting, sound, effects, prop making and maintenance, and costume. Emphasis is on participation and completion of lab assignments developing and implementing sets, props, and lighting for SBU Theater productions.

THTR-201 ACTING IN CHARACTER (3 Credits)
This is a lab course in creating characters for stage and other media in the body, mind and voice using exercises, monologues and some limited scene work from a variety of plays and other media. Emphasis is on increasing the individual student actor’s awareness and reactions to the emotional elements of character in monologues and two-person scenes. Memorization and rehearsal outside class are required.

THTR-211 HIST OF AMERICAN THEATER (3 Credits)
A survey of American theater performance and playwriting from early colonial works to the present, emphasizing the developments in the 20th and 21st centuries, including video and film versions of theater texts, and, when possible, trips to see area productions.

THTR-212 EUROPEAN THEATER HISTORY (3 Credits)
This course is designed to survey the texts and theatrical production of European theater from the Renaissance to the present, with emphasis on post 19th century production developments and texts. We'll read play texts, watch several videos and filmed versions of plays, and discuss the history and nature of various genres of European theater, and its influences in a theatrical rather than literary context.

THTR-230 THEATRICAL DESIGN (3 Credits)
This course is designed to teach the elements and history of set, lighting, costume and sound design and to afford students the opportunity to develop and design in a simulated or actual production setting. Using the skills and concepts from THTR 130, the student will learn to collaborate with the director in designing effective and creative elements that support the production concept, the actors and the text.

THTR-299 SBU THEATER PRODUCTION (1 Credit)
Credit for student work in faculty-directed SBU Theater season productions, either in tech and on-stage performance. Student must successfully audition or interview for SBU Theater production at the beginning of the semester and complete all required rehearsal/run assignments and shop hours. May be required for credit.

THTR-301 ACTING IN ENSEMBLE (3 Credits)
This is a lab course in creating characters for stage and other media using ensemble exercises and scene work for multiple actors from a variety of plays and other media. Emphasis is on increasing the student actor’s awareness and reactions to the emotional give and take and changing relationships within scenes involving more than two actors. Memorization and rehearsal outside class are required.

THTR-333 ACTING FOR THE CAMERA (3 Credits)
This is a lab course in developing the specific skills needed to create character for the camera. Emphasis is on in-class scene and monologue work, and exercises designed to work specifically for the camera. Memorization and rehearsal outside class are required.

THTR-334 ACTING STYLES & MOVEMENT (3 Credits)
A lab course designed to help the student actor develop the techniques used in creating character for various genres of theater--farce, Restoration and 18th century, high comedy, Shakespeare, et. al. Emphasis on period movement, use of props, gesture, and integration of character with text. Memorization and rehearsal outside class are required.

THTR-335 VOICE & DICTION FOR ACTORS (3 Credits)
A foundation lab course in developing safe and effective techniques for voice production in character. Emphasis on healthy projection, clean articulation, control of regional dialects, and finding the emotional voice in the text through sonic exploration. Memorization and rehearsal outside class are required, as is the practice of vocal exercises.

THTR-379 SPECIAL TOPICS IN THEATER (3 Credits)
This course is designed to provide the theater major the opportunity to explore aspects of theatrical production and scholarship of special interest to the student, through research, rehearsal, and written documentation. The course may also take the form of physical exploration of valid movement, design or acting concepts or techniques not covered in established theater courses; but of benefit to the student's overall educational goals and objectives.

THTR-379A SP TOP: THEATER MAKEUP/HAIR (3 Credits)
THTR-379B SP TOP: DEVISED THEATER (3 Credits)

THTR-379C SP TOP: IMPROV FOR THEATER (3 Credits)
This course is designed to provide the theater major the opportunity to explore aspects of theatrical production and scholarship of special interest to the student, through research, rehearsal, and written documentation. The course may also take the form of physical exploration of valid movement, design or acting concepts or techniques not covered in established theater courses; but of benefit to the student's overall educational goals and objectives.

THTR-401 DIRECTING (3 Credits)
A course in the basics of directing for the stage including dramaturgical research and text preparation, character analysis, developing a ground plan, dealing with set and light design, blocking, auditioning, and rehearsing. In-class scene work allows students to direct each other and develop skills collectively. Outside rehearsal may be required.

THTR-412 SHAKESPEARE IN PERFORMANCE (3 Credits)
This course is designed to explore the techniques and historical approaches to performing and producing Shakespeare's plays on stage and in the cinema. The goal is to help the student understand a phenomenological, practical and aesthetic differences between reading a Shakespeare play and doing one. Acting and design elements are discussed and demonstrated through in class viewings of filmed and live performances, and possible field trips to view Shakespeare productions. Can be taken as Honors course.
THTR-412H SHAKESPEARE IN PERFORM-HONORS (3 Credits)
This course is designed to explore the techniques and historical approaches to performing and producing Shakespeare's plays on stage and in the cinema. The goal is to help the student understand a phenomenological, practical and aesthetic differences between reading a Shakespeare play and doing one. Acting and design elements are discussed and demonstrated through in class viewings of filmed and live performances, and possible field trips to view Shakespeare productions.
Restrictions: RG.HON

THTR-413 SHAKESPEARE IN PERFORM-HONORS (3 Credits)
This course is designed to explore the techniques and historical approaches to performing and producing Shakespeare's plays on stage and in the cinema. The goal is to help the student understand a phenomenological, practical and aesthetic differences between reading a Shakespeare play and doing one. Acting and design elements are discussed and demonstrated through in class viewings of filmed and live performances, and possible field trips to view Shakespeare productions.
Restrictions: RG.HON

THTR-499 THEATER CAPSTONE COURSE (3 Credits)
This course is designed to provide the senior theater major the opportunity to demonstrate proficiency in aspects of theatrical production and scholarship through research, rehearsal, written documentation, and performance/presentation. The course culminates in a public production presentation with evaluation by the theater faculty. The course encompasses the full breadth of undergraduate education in theater and consists of scheduled meetings with professors, extensive research and rehearsal times, extensive written support documentation of research, conceptualization and process, and the final presentation/performance itself. Students should consider this course the most rigorous in the undergraduate theater curriculum and work accordingly.
Majors only. Final Fall or Spring.
Restrictions: RG.THTR
THEOLOGY & FRANCISCAN STUDIES (THFS)

THFS-101 THE WAY OF FRANCIS & CLARE (3 Credits)
This course is intended to introduce students to the Franciscan roots that underlie the mission and values of St. Bonaventure University. After familiarizing themselves with the social and cultural context that shaped Francis and Clare of Assisi, students will examine their lives, values and spirituality, and then study how these achievements systematic theological expression in the thought of St. Bonaventure. Students will then connect and apply key Franciscan insights to contemporary concerns.

THFS-104 THE WAY OF FRANCIS & CLARE HONORS (3 Credits)
This course is designed for students in the honors Program. It achieves the same objectives and satisfies the same requirements as does THFS 101 'The Way of Francis and Clare.' An honors section is distinguished from a regular section by more than just the addition of an extra paper. At the discretion of the instructor, Honors courses typically do one or more of the following: cover additional topics, cover topics in more depth, and/or require additional scholarly assignments as compared to a regular section.

THFS-200 COMPARATIVE RELIGION (221) (3 Credits)
Among the many questions that confront the student of religion today, the most challenging is religious pluralism. There are several questions that must be dealt with here: Do we study other religions merely to satisfy our curiosity, or is there a deeper dimension to this effort? Is it possible that our faith might be deepened by an awareness of the spirituality expressed in other religions, or does such an awareness shake our faith to its foundations? This course takes a close look at these and similar questions and attempts to find meaningful answers and responses. The course also examines key aspects of various world religions in an effort to reach a deeper appreciation of the spirituality of humankind.

THFS-203 ISLAM: RELIGION & CULTURE (3 Credits)
This course examines the world's second largest religion according to its three major dimensions, namely, Islam (practices), Iman (faith), and Ihsan (integration and expression), as well as a historical dimension. Topics include the social and religious climate in pre-Islamic Arabia and the eastern Mediterranean, the life of the Prophet Muhammad, the history of the Islamic community, and the beliefs, practices, and spirituality of Islam. The culture of Islam, as expressed by the arts, will also be examined. Contemporary social and political issues that face the international Muslim community are also considered.

THFS-205 MYTH AND CULTURE (3 Credits)
Why do myths play such an important role in human culture? This course introduces students to a variety of methods for understanding the role of myths in religious communities and in modern secular culture. The build of the course is devoted to an examination of the major classical and contemporary theories of the meaning and interpretation of myths (anthropological, structuralist, psychoanalytical, etc.), with examples drawn from a variety of cultures both ancient and modern.

THFS-222 RELIGION AND POLITICS (3 Credits)
Should religion be kept out of politics, or does religion have a vital role to play in political life? This course explores the influence of religion in American politics from the Plymouth Fathers to the present, with special attention to the contemporary scene. Issues to be considered include the changing place of religion in American political history, the meaning and interpretation of the religion clause of the First Amendment, the tensions between majority and minority religious and political ideologies in America, the secularist impulse in American political life, and the rise of the 'Religious Right.'

THFS-228 RELIGION AND FILM (3 Credits)
Religious films and films with religious themes have been around since the beginning of the cinema industry. This course will look at examples of film art that also fit into the category of religious film. Films are chosen for their value in addressing broad religious topics, not just because they carry a religious theme. Topics that might be covered include devils and angels, Jesus films, religious life, saints, and being Catholic.

THFS-230 FAITH AND DOUBT (3 Credits)
What does it mean to think and live as a Christian in today's world? How does one decide? This course will explore some of the answers that Christian thinkers have given to such questions. The investigation will highlight. Recent writings in theology will be considered.

THFS-235 CATHOLIC THEOLOGY (3 Credits)
Building upon THFS 101, this course examines classic topics in Catholic theology in further historical and conceptual depth. The specific contribution of Franciscan theologians to Catholic theology will be highlighted. Recent writings in theology will be considered.

THFS-245 CHRISTIAN ETHICS (3 Credits)
What does it mean to think and live as a Christian in today's world? How does one decide? This course will explore some of the answers that Christian thinkers have given to such questions. The investigation will include an examination of selected moral and theological problems such as abortion, poverty, war and racism.

THFS-252 CHRISTIAN SPIRITUALITY (3 Credits)
Judaism, Christianity and Islam share a common spiritual heritage, but each religion has developed its own unique understanding of the way humans should approach and experience God. This course examines the mystical traditions and practices of Judaism, Christianity and Islam as expressed in their Scriptures and the writings of later spiritual leaders.

THFS-255 PRAYER: A CONTEMPLATIVE THEOLOGICAL INQ (1 Credit)
This course deals with the philosophical possibility and theologically claimed reality of a relationship (prayer) with the Mystery that is referred to with the word 'God.' After consideration of relevant fundamental theological reflections it will consider the nature of prayer, contemplative prayer, Franciscan prayer and prayer in the light of evil and suffering. A visit to the Mt. Irenaeus Franciscan contemplative community is offered as a co-curricular activity of the course.
THFS-257 SPIRITUALITY AND AGING (3 Credits)
This course examines how spirituality, religiosity and faith are vital aspects (or not) of the lives of the elderly in America. Key questions are: how is 'spirituality' differentiated from 'faith' or 'religiosity'? How is aging to be understood in respect to religious traditions? Is aging itself a spiritual/religious process? Can there be non-religious as well as religious forms of spirituality? How is gender related to aging and spirituality? Are their 'natural' limits to human life from a religious/spiritual perspective, and if so what do they say to the medical-technological drives to extend human life indefinitely? How does the allocation of medical resources to the care of the elderly raise questions of social justice with the Catholic tradition and more widely? How do views of an afterlife affect care for and communication with the elderly?

THFS-261 JESUS THROUGH THE CENTURIES (3 Credits)
Jesus of Nazareth is not only the theological center of the Christian faith, but also the pivotal figure in the history of Western civilization. Debates over who he was and what he sought to accomplish have engaged the best minds of generations, and conflicts over these questions have divided nations and led to bloodshed. This course will explore the diverse and sometimes opposing views that Christians have held about Jesus over the centuries.

THFS-263 SACRAMENTS (3 Credits)
What is a sacrament? Why are sacraments so important in the spiritual life of the church? This course examines the theological basis of the sacramental system and presents a survey of the sacraments as celebrated in Christian churches. Included in the course is a study of symbols, rituals and the psychosocial dynamics of sacramental celebration.

THFS-264 AMERICAN CATHOLICISM (3 Credits)
The Roman Catholic Church is the largest religious institution in America. Yet for much of its history the American Catholic community has struggled to find its place in a predominantly Protestant (and often hostile) culture. This course offers an overview of the theological and historical development of American Catholicism as a specific expression of the Roman Catholic Church that has been molded in a unique way by American culture.

THFS-265 GLOBAL CATHOLICISM (3 Credits)
This course explores the different forms that the Catholic church has taken as it has adapted to diverse cultures around the world and attempts to unpack the idea of 'catholicity' for our contemporary time. It introduces the student to a variety of issues facing Catholic Christians that arise in the contemporary context of globalization. Contemporary sensitivity to the categories of culture, identity, and location is responsible for a vital creativity evident in contributions by various current Catholic thinkers and theologians.

THFS-266 FRANCISCAN THEOLOGY FOR TODAY (3 Credits)
Is Franciscan Theology still relevant today? The course will examine such Franciscan theologians as Alexander of Hales, Bonaventure, Duns Scotus, Peter John Olivi and others in comparison with modern and contemporary theology and philosophy to answer the following questions from a Franciscan perspective: Is theology a true science? How do we prove God’s existence? What is the role of the senses and the arts in becoming aware of God? How does the human mind reflect God? How does the will relate to the intellect? How should humans relate to one another socio-economically? What is God and how is God related to the physical world? How does the Trinity make any sense? Why do we need a mystical journey as well as rational?

THFS-270 INTRO TO THE BIBLE (3 Credits)
The Bible is a collection of books that both Jews and Christians honor as sacred Scripture, though in different ways. This course will introduce students to the historical, literary, and theological dimensions of the Bible as it has been understood by modern academic scholars and by Jews and Christians over the centuries.

THFS-271 UNDERSTANDING THE OLD TESTAMENT (3 Credits)
The collection of books that Christians call the ‘Old Testament’, the first part of the Christian Bible, is also the sacred scripture of Judaism. It originated, however, before either of these religions, as a written reflection of the religious beliefs, practices, and ideals of a particular group of people in ancient Israel whom both Jews and Christians claim as their intellectual and spiritual ancestors. This course will explore the contents and message of these books in relation to their historical, literary, and theological contexts as both sacred literature of ancient Israel and canonical scriptures of Judaism and Christianity.

THFS-272 UNDERSTANDING THE NEW TESTAMENT (3 Credits)
The collection of books that Christians call the ‘New Testament’, is the most important part of the Bible for Christians. It was written during the early decades of the Christian movement and serves as our principal source for information about the life and ministry of Jesus and the early history of the Christian church, including the rise of Christian theology. This course will investigate the contents and messages of the 27 books of the New Testament in relation to their historical, literary, and theological contexts in both the early Christian community and later Christian interpretations.

THFS-299 SPECIAL TOPICS (3 Credits)
An intensive study of a topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-299A BONAVENTURE, LIFE & WRITINGS (3 Credits)
An intensive study of a topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-304 RELIGION AND GENDER (3 Credits)
Religion has played a key role in defining society’s understanding of women and the roles that women have been allowed to play across the centuries. This course examines how women have been viewed and treated in the major religious traditions. Special attention is given to feminist critiques of traditional religion and the struggles of women to take control of their own religious destinies.

Prerequisite(s): Take THEO-100

THFS-307 CHRISTIAN-MUSLIM REL: PAST, PRES, FUT (3 Credits)
This course examines the historical, social and theological dimensions of Christian-Muslim relations from the advent of Islam to the current day. The first part of the course addresses questions such as: How have Christians and Muslims viewed each others’ faiths over the centuries? To what extent have their relations been characterized by harmony and cooperation, or by strife and discord? How have these relations changed and why? In the second part, we examine contemporary theological questions, perspectives, and debates arising from this historical interaction. We will also address inter-religious dialogue in the United States, and the future of Christian-Muslim relations.

Prerequisite(s): Take THEO-203
THFS-313 RELIGIONS OF SOUTH ASIA (3 Credits)
This course is an introduction to the religions of South Asia (modern day Pakistan, India and Bangladesh), specifically the indigenous Indic traditions of Hinduism, Buddhism, Jainism, and Sikhism, as well as those non-indigenous religions that developed a significant presence and unique expression in South Asia, namely Christianity and Islam. In addition to exploring the beliefs, customs, sacred texts, and visual cultures of these traditions, this course addresses the interaction between these faith communities both historically and currently.

THFS-320 FRANCISCAN APPROACH TO HEALTH CARE (3 Credits)
The course will teach how to look from a Franciscan perspective on the US health care system and compare with other models of health care in the past and abroad. The overall goal of the course will be to see the reality of health care in the U.S. and see how we can improve on this through the use of Franciscan values and virtues such as compassion and service.
Prerequisite(s): TAKE THFS-101

THFS-323 RELIGION AND SCIENCE (3 Credits)
Do science and religion offer competing or complementary understandings of the material world? This course explores the historic and contemporary relation between scientific and religious views of reality. Issues to be addressed include the origins of the universe ('Big Bang' cosmology), the nature of the physical universe (quantum mechanics, chaos theory), the origins of humanity (evolutionary theory), and the basis for moral conduct (sociobiology).

THFS-324 RELIGION AND RACE (3 Credits)
Religion has played a key role in the development and support of racist beliefs, attitudes and institutions in the Western world. But religion has also been a powerful tool for combating racism. This course will examine both sides of this troubling aspect of the Western religious history, with special attention to groups like the Ku Klux Klan and Black Muslims that explicitly link race and religion. Substantial attention will also be given to current scientific and sociological thinking on the subject of the race.

THFS-325 RELIGION AND ART (3 Credits)
The arts have been an important channel of religious expression from the ancient cave dwellers to the present. This course examines the role played by the arts in the Christian tradition and the modern secular world. The first part of the course focuses on the varied uses of music, painting, sculpture, etc., in the life and liturgy of the church, including theological interpretations on the role of art in liturgy. The second part examines the spiritual power of contemporary secular forms of art.

THFS-326 Religion and Science Fiction (3 Credits)
Science Fiction is one of the most popular entertainment genres today. Good SciFi movies or books project from the present to the future, thus not just revealing hidden utopian or dystopian expectations but also the cultural values of the time they were produced in. In addition, many SciFi works have a hidden eschatology. In this class, we will reveal those hidden religious metaphors and compare them with the theories and dogmas of Christian and Jewish theologies. We will explore such fundamental religious questions as what does it mean to be human, what is the ultimate nature of the universe, and theodicy. In addition to class we will meet once weekly to watch SciFi movies.

THFS-327 RELIGION AND TERRORISM (3 Credits)
The September 11, 2001 attacks on the World Trade Center buildings in New York City and the ensuing 'war on terror' have heightened public awareness of the often close link between religion and violence. This course will explore the complex and disturbing relationships between religion and violence. This course will explore the complex and disturbing relationship between religion and violence in various religious traditions. Primary attention will be given to the actions of non-governmental entities, but the course will also look at ways in which governments have used religious arguments to support acts of violence. The course will also examine ways in which religion might be sued to reduce the amount and severity of religious and political violence in the contemporary world.

THFS-333 Christian Marriage (3 Credits)
A study of sexuality, spirituality and the sacrament of marriage. Utilizing experiential and historical data and a Catholic and Franciscan theological perspective, we will explore myths, realities and meanings of eros, sexuality, relational dynamics, intimacy, pornography, beauty, dating, marriage, sex, divorce, annulment, conflict resolution, commitment, parenting and spirituality. To achieve this goal, required reading, critical reflection and active class participation are essential.

THFS-333T Contemporary Catholic Thought (3 Credits)
The 20th century was arguably the most creative period in Catholic thought since the era of the great scholastic theologians of the Middle Ages. As it enters its third millennium, Catholic theology is marked by a many-faceted richness and vitality. This course investigates the central ideas and concerns of key twentieth century thinkers who have shaped the understanding of Catholic faith within contemporary cultures.

THFS-340 Ethical Leadership: Franciscan Values FRANCISCAN PERSPECTIVE (3 Credits)
This course focuses on a healthy world, economy and our responsibility for it. It begins with the economic financial crisis of 2007-2008 and looks at the social, cultural, economic and psychological factors along with the ethical lapses that led up to it. This course then presents the major contributions that Franciscan thinkers have made to the way we can understand, accept and humanize the modern market economy. Franciscan principles and practices for a more social economy will provide students with the ethical insights and practical tools they will need in the workplace to balance freedom and responsibility, profit-making and solidarity, the care of creation and the common good.

THFS-345 CATHOLIC SOCIAL THOUGHT (3 Credits)
The course will introduce students to what has been called the greatest secret of the Catholic Church- its social teaching. Students will begin by exploring the historical and religious origins of the basic principles of Catholic Social Thought- the sacredness of human life, and the dignity of the human person. They will learn how that teaching has been articulated in Church documents, and has found expression in the Church and in secular movements. Ultimately, the course is not just another academic offering, but an integral part of the mission of the University. It is a key component of the University’s response to the Church’s call for a fuller integration of the Church’s social tradition into the mainstream of Catholic education. The course will help demonstrate the University’s commitment to human life, human dignity, and human rights.
Prerequisite(s): Take CLAR-106 CLAR-107

Prerequisite(s): TAKE THFS-101
THFS-348 HEALTH, FAITH & ETHICS (3 Credits)
This course introduces students to and acquaints them with the ways in which religious convictions and practices shape understandings of health and wholeness and, concomitantly, how health care should be administered to all in a just, right and equitable manner as people created in God’s image. Questions of social justice and allocation of limited resources, especially to vulnerable populations like the elderly and the poor are considered. Specific ethical issues are treated within the purview of a spiritual/religious vision of human beings.

THFS-349 ISSUES IN CHRISTIAN ETHICS (3 Credits)
This course will examine how Christian ethical principles can be used to analyze a particular ethical problem. The content of the course will be announced in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-357 MERTON’S HEART:JOURNEY & THOUGHT (3 Credits)
Thomas Merton, a one-time faculty member at St. Bonaventure, was one of the most influential spiritual writers of this century. This course takes students on a journey through the life and writings of Thomas Merton. The course includes an analysis of Merton’s theological reflections on comparative religious experience and his prophetic approach to social problems that arose out of his contemplative awareness.

THFS-358 JUDAAISM FROM ABRAHAM TO THE MODERN ERA (3 Credits)
This course is intended to introduce students to the major events, figures and themes of Jewish history from Biblical times to the post-WWII era. It explores political, social, cultural, intellectual and religious aspects of this history. We will pay particular attention to central individuals and their experiences as a way of gaining insight into significant moments in Jewish history. We will also concentrate on the changing temporal and geographic contexts, acknowledging both commonalities and exceptional experiences of various Jewish communities. This course seeks to understand how Jews at times served as the agents of historical change, and at others reacted to changes imposed on them by non-Jewish societies.

THFS-359 FRANCISCAN SPIRITUALITY (3 Credits)
The Franciscan movement has given rise to a distinctive spirituality, a whole way of approaching life. This course will first focus on the religious experiences of Francis and Clare of Assisi as seen in their life choices and writings. We will examine their distinctive vision of God, creation, and human relationships, and the ways these insights were developed by later authors. Then, key features of the ‘life according to Gospel’ which they fashioned will be examined, and finally, we will bring Franciscan spirituality to bear on issues in contemporary society.

Prerequisite(s): CLAR-207 OR FS/THED-101

THFS-359T STY IN SPIRITUAL TRADITIONS (3 Credits)
An intensive study of a particular issue or thinker in historic or contemporary spirituality. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-360 Early History of Christianity to the REFORMATION (3 Credits)
For much of the last 2,000 years, the history of Western civilization has been framed around the history of the Christian church. This course surveys the history of Christianity from the Apostolic Fathers to the Modern Era. Attention will be given to the social, institutional and intellectual aspects of the Christian faith.

THFS-362 FRANCIS & FRANC. TRADITION (3 Credits)
The spiritual movement initiated by Francis of Assisi has played a key role in the spiritual and intellectual life of the Catholic church from the Middle Ages to the present. This course will examine the life of St. Francis and his impact on the church and the world. The course will also look at some of the great Franciscan scholars like St. Bonaventure in order to explore the influence and applications of Franciscanism to the modern world.

THFS-366 FRANCISCAN THEOLOGY FOR TODAY (3 Credits)
Is Franciscan Theology still relevant today? The course will examine such Franciscan theologians as Alexander of Hales, Bonaventure, Duns Scotus and Peter John Olivi in comparison with modern and contemporary theology and philosophy to answer the following questions from a Franciscan perspective: Is theology a true science? What is God and how is God related to the world? How does the Trinity make any sense? What’s so special about the person of Christ? What is more important to us: the will or the intellect? What does the Holy Spirit have to do with history? What does theology have to do with socio-economics? The course will be based around discussions of most interesting topics and will feature several guest speakers.

THFS-368 BODY, SEX AND SACRAMENT (3 Credits)
The Christian tradition has always been uncomfortable discussing issues pertaining to the body and sexuality. Why would this be? This course examines the reasons for this discomfort and offers a more positive assessment of ‘embodiment’ as a vital aspect of Christian theology and spirituality. The course will include a constructive interpretation of Catholic teachings about ritual and sacraments, the incarnation of Jesus and human sexuality.

THFS-374 WOMEN AND THE BIBLE (3 Credits)
The Bible was written by, for, and about men. As a result, it reflects the ideas, judgments, and world views of men. This course examines how this male-centered perspective affects the way women are portrayed (or more often ignored) throughout the biblical record. The contributions of women to the social and religious life of ancient Israel and the early Christian church are regularly downplayed in these writings, and negative images and stereotypes of women abound. The few women who are honored for their accomplishments are notable exceptions to the rule.

THFS-382 RELIGIOUS EDUCATION (3 Credits)
Educational theories have sparked a variety of approaches that have been applied to the ministry of religious education. This course explores some of the key theoretical models of religious education and evaluates the strengths and weaknesses of each approach. This course, while exploring some of the key theoretical models of religious education, will focus substantially on pastoral experience, and how the model of religious education in pastoral situations is more a collection of approaches than merely one type of approach.

THFS-385 SPECIAL STUDIES IN RELIGIOUS EDUCATION (3 Credits)
An intensive study of a topic or issue pertaining to religious education. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-386 SPECIAL TOPICS (3 Credits)
As a student of the topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken again provided the content has changed.
THFS-399A SP TOP: HISTORY OF CHRISTIANITY: REFORMATION TO PRESENT (3 Credits)
As intensive study of a topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken again provided the content has changed.

THFS-430 THEOLOGICAL METHOD (3 Credits)
Contemporary theologians use a variety of methods as they seek to conceptualize and communicate the Christian faith in an increasingly pluralistic world. This course will survey a variety of contemporary approaches to theological reasoning through an examination of key themes and issues.
Prerequisite(s): CLAR-206 AND CLAR-207
Restrictions: RGC.105

THFS-440 CONTEMPORARY MORAL THEOLOGY (3 Credits)
Debates over moral and ethical issues have become increasingly complex with the rise of modern science, the gradual secularization and diversification of Western culture, and the ‘turn to the subject’ in modern thought. Christian ethicists have had to develop new ways of thinking about moral issues and moral agency in light of these challenges. This course looks at some of the conceptual problems associated with the practice of moral theology in the contemporary world and investigates some of the ways in which Christian moral theologians have sought to address these challenges.
Prerequisite(s): CLAR-206 & CLAR-207
Restrictions: RGC.105

THFS-460 HIST. OF CHRISTIANITY (3 Credits)
For much of the last 2,000 years, the history of Western civilization has been framed around the history of the Christian church. This course surveys the history of Christianity from the Apostolic Fathers to the Modern Era. Attention will be given to the social, institutional and intellectual aspects of the Christian faith.
Prerequisite(s): TAKE CLAR-106 AND CLAR-107
Restrictions: RGC.105

THFS-470 CONTEMP BIBLICAL INTERPRET (3 Credits)
Theologians and biblical scholars have subjected the Bible to rigorous critical investigation since the rise of the historical-critical method in the 18th century. This course examines the tools and methods used by contemporary scholars in their studies of the Bible, with an emphasis on more recent developments. Students will learn to use the tools and methods of modern scholarship through the study of selected texts from the Hebrew Bible and Christian Scriptures.
Prerequisite(s): TAKE THFS 101
Restrictions: RGC.105

THFS-495 REL. EXPER. OF THOMAS MERTON (3 Credits)
Students may earn academic credit while working in a religious organization under the supervision of both a religious organization under the supervision of both an on-site director and a faculty member who will assign and evaluate reading and writing assignments appropriate to the experience. Students are responsible for arranging their own internships in advance of the semester for which academic credit is sought. All internships must be approved by the department.
Restrictions: RGC.105

THFS-498 SEMINAR IN THEOLOGY (3 Credits)
An integrative capstone course for theology majors and minors. The course will explore a particular topic, theme, issue or author from a variety of theological perspectives. The topic of course will be advertised in the course schedule prior to the semester when it is offered. The course is required of all senior theology majors.
VA-101 ART & ITS APPRECIATION (3 Credits)
This introductory course is designed to give the student a working understanding of the meaning of art and its influence and application in our lives. Thorough attention will be given to the problems of artistic expression, content and form in two- or three-dimensional works of art. By examining the role of the artist we study arts implications, influences, visual language and interpretation by contemporary society. Periodically, original works of art from the St. Bonaventure University art collection will be used to develop the student's critical awareness of individual discernment when engaged with the visual arts and images.

VA-101C ART & ITS APPRECIATION (3 Credits)
This introductory course is designed to give the student a working understanding of the meaning of art and its influence and application in our lives. Thorough attention will be given to the problems of artistic expression, content and form in two- or three-dimensional works of art. By examining the role of the artist we study arts implications, influences, visual language and interpretation by contemporary society. Periodically, original works of art from the St. Bonaventure University art collection will be used to develop the student’s critical awareness of individual discernment when engaged with the visual arts and images.

VA-110 GRAPHIC DESIGN I (3 Credits)
This introductory course is designed to build foundational skills in Graphic Design with an emphasis on Adobe Illustrator, color, imagery, typography, composition and layout. Software such as Adobe Photoshop and Adobe InDesign will also be discussed and available. Throughout this course students will develop an understanding of the basic terminology used in the design field while studying and producing logo designs, poster layouts, label design, and digital art.

VA-111 DRAWING I (3 Credits)
This course is designed as an introduction to the creative process and its function for expression through the visual arts. All drawing media will be treated as a means of developing powers of observation, technical skills and understanding of the formal aspects of line, space, form, perspective, value, design and composition. Image surveys and group critiques will be included to further the student’s understanding of the visual language of art (Formerly FA-465). There is an additional course fee, commensurate with the materials provided for student production.

VA-121 PAINTING I (3 Credits)
This course offers an introductory experience, both theoretical and pragmatic, into the nature and varied purposes of painting. Mediums explored will include acrylic on canvas and watercolor on mixed-media on paper. The emphasis will be on discovering the properties and expressive components of composition, value, color and content. The formal elements of art as visual language will be approached through objective and non-objective means. Preparatory and conceptual studies in drawing media will be included. There is an additional course fee, commensurate with the materials provided for student production.

VA-131 SCULPTURE I (3 Credits)
This studio-oriented course will introduce students to the theories and processes of sculpture. The course will emphasize three-dimensional design theory, terminology, principles, and techniques. Class participants, therefore, will learn to recognize the sources of design, apply the elements and principles of design, research the potential of various design media, critique designs using design terminology, and analyze design choices in problem solving. There is an additional course fee, commensurate with the materials provided for student production.

VA-141 CERAMICS I, HANDBUILDING (3 Credits)
This course will introduce students to various handbuilding methods; pinching, coiling, soft slab and hard slab, as well as different surface enhancements. Students will also learn about glazing and firing ceramics into a finished product.

VA-141A CERAMICS II (3 Credits)
VA-141B ADV. CERAMICS III (3 Credits)
VA-151 PRINTMAKING I (3 Credits)
This course will introduce students to the printmaking techniques of monotype, linoleum block, wood block, calligraphy and silk-screen. Students will also learn how to prepare how to prepare their prints for presentation. There is an additional course fee, commensurate with the materials provided for student production.

VA-161 TWO-DIMENSIONAL DESIGN (3 Credits)
Design means to plan, to organize. The design student plans the arrangement of elements to form a visual pattern. Through a series of visual problems developed by the student and instructor, the student will be required to depict creative visual specific solutions using the design process. The student’s creativity will be enhanced through his/her originality, imagination and ability to resolve visual problems with unusual solutions.

VA-162 THREE-DIMENSIONAL DESIGN (3 Credits)
This is an introductory course concerning the conception and production of three-dimensional art. Students will be given design problems to solve with readily available materials and basic techniques. Students will explore the aesthetic and practical considerations of working in the round.

VA-171 THE IMAGING JOURNAL (3 Credits)
The healing qualities of both journal writing and image making are joined together in creating an Imaging Journal. The intimacy of the sketchbook format allows images to surface from memory and imagination. Guided explorations in monotype, watercolor, and collage offer an enriched form of language. Experiments in design, color, composition, sequential imaging, visually expressive text, and artists' methods and materials are included. This course may be especially useful for students contemplating vocations such as fine arts, graphic design, education, theology, expressive therapies and the healing professions. No prior art skills are required. There is an additional course fee, commensurate with the materials provided for student production.

VA-181 BLACK & WHITE PHOTOGRAPHIC IMAGES (3 Credits)
This introductory course engages and investigates the aesthetic qualities of the black and white photographic image including design, composition, positive/negative space, tonal elements, line, and texture. The course addresses issues of content and subject matter through a survey of several master photographers that will involve student research. Students will also explore aesthetic principles by shooting several rolls of black and white film documenting the particularity of their own lives at St. Bonaventure University and aspects of the neighboring communities.

VA-201 ART HIST: ANCIENT CIVILIZATION (3 Credits)
This course introduces students to the ancient peoples of early civilizations. The first of a three-course sequence in survey format, we study the development of images in painting, sculpture, and architecture from antiquity through the middle ages. Course content focuses on major images of the Stone Age, Near East, Egypt, the Aegean, Greece and Roman cultures, followed by the early Christian, Byzantine, Islamic, and Gothic traditions. Lectures, discussions, and student research projects are presented that concern how art reflects culture, and is informed by social, political and religious influences.
VA-201C ART HIST: ANCIENT CIVILIZATION (3 Credits)
This course introduces students to the ancient and often mysterious peoples of early civilizations. Lectures and discussions concerning how art reflects their culture as well as social, political and religious influences will be presented. We study such cultures as ancient Mesopotamia, Greece, Egypt, the Far East and the Roman Empire, followed by the early Christian, Byzantine and Gothic traditions. Interdisciplinary lectures, slides, student research and a museum visit will be part of the course content.

VA-202 ART HIST: EARLY RENAISS/ROMANT M (3 Credits)
Master and transitional artists from the late 14th century through the 19th century form the main content of this, the second course of the three-course survey sequence. In general, this course studies major realistic images in two- and three-dimensional formats. Development of art movements in the western artistic tradition, combined with innovations in art production of the time, help the student identify influences upon succeeding art movements and then artists’ intents while executing their works. Movements include Renaissance, Baroque, Rococo, Romanticism, and Modern art of the late 19th century. Students use analytical and contextual analysis as the main tools of the contemporary research methods, which are presented in this course. Frequent visits to the St. Bonaventure University Art collection, which is housed in the university’s The Regina A. Quick Center for the Arts, give students a unique opportunity to study original works of art, their preservation, conservation and restoration.

VA-210 GRAPHIC DESIGN II (3 Credits)
This course will continue to build upon the foundational skills learned in Graphic Design I. Students will continue to utilize Adobe Illustrator in combination with Adobe Photoshop to build their portfolio. The entire Adobe Suite will also be discussed and available. Throughout this course students will develop a better understanding of the design field through a variety of projects. This course will culminate in an exhibition of products designed by students and produced by a variety of online companies.
Prerequisite(s): Take VA-110

VA-211 DRAWING II (3 Credits)
This course is designed as a continuation of Drawing I. Students will further develop their technical skills and understanding of the drawing medium. Color will be introduced to the student with emphasis on life and figure drawing. Image surveys and group critiques are an integral part of this course. There is an additional course fee, commensurate with the materials provided for student production.
Prerequisite(s): Take VA-111

VA-221 PAINTING II: INTERMEDIATE (3 Credits)
This course offers theoretical and pragmatic explorations in painting on an intermediate level allowing students to choose acrylic paints or to engage in a special focus on the use of oil paint. Advanced representational and expressive investigations into selected content such as still life, portrait, figure, landscape, and abstraction will be engaged. A variety of mediums, techniques and methods will be covered including blending, glazing, and dry brush. There is an additional course fee, commensurate with the materials provided for student production.
Prerequisite(s): Take VA-121

VA-231 SCULPTURE II (3 Credits)
Building on the principles established in VA 131, this course will concentrate on the sculptural method of assemblage, using many different materials. The class will examine the art of professional sculptors working in this method. Students will make presentations on the work of these sculptors as well as creating sculptures inspired by them. There is an additional course fee, commensurate with the materials provided for student production.
Prerequisite(s): Take VA-131

VA-231A SCULPTURE III (3 Credits)
VA-241 CERAMICS II (3 Credits)
This course will introduce students to the process of making ceramics on the potter’s wheel. We will cover the major pottery forms of mug, bowl, plate, vase, pitcher and covered container. Students will continue to learn about decorating, glazing and firing their ceramics.
Prerequisite(s): Take VA-141

VA-301 CONTEMPORARY ISSUES IN ART (3 Credits)
This course will begin with a brief study of the 20th century developments and events which shaped contemporary making of images. The third course of a three-course sequence in survey format, students explore artists’ works and movements, which contribute to Modern and Post-Modern art movements and expressions, from contemporary art through avant-garde art and current art media. The survey will offer research methods through image surveys, lectures, presentations and gallery visits; some student studio practicum will enhance the student’s understanding of contemporary visual arts.

VA-302 WOMEN ARTISTS: THEN & NOW (3 Credits)
This course examines the lives, careers, and achievements of women artists and the related cultural environment from the Middle Ages to contemporary times in Europe and America, the feminist movement beginning in the 1970’s and specifically feminist issues in art that are becoming widespread in the artistic culture. We will consider women’s creative powers as consumers, producers, critics, supporters, objects, and subjects of ‘art’ as expressed in selected examples of studio arts. Specifically, we will be concerned with how women have used art and culture to change their own status and conditions and to remake their worlds.

VA-321 WATERCOLOR & AQUA MEDIA (3 Credits)
This course offers basic introductory explorations in the creativity of water-based media. Studies in black and sepia inks introduce concepts of value and composition. A variety of approaches and subjects will be explored in full color with watercolors and acrylic inks including still life, landscape, figure, and creative abstraction. Students will assemble a large album of their own highest quality pieces. Attentive mastery of basic techniques and the development of a personal creative vision will both be emphasized. Prerequisite: any VA 100-level studio course or portfolio review. There is an additional course fee, commensurate with the materials provided for student production.
VA-341 MODERN ART & THEORY (3 Credits)
Modern art can be confounding precisely because it challenges traditional artistic practices and aesthetic categories. Nevertheless, the immense surge of creative energy unleashed by the innovative techniques and radical aims of the avant-garde are still not exhausted. In this course we examine the development of modern art from its emergence in the 19th century to its dominance in the 20th century. Emphasis will be placed on key artists and movements from the first half of the 20th century responsible for the most distinctive features and claims of the avant-garde. We will also attend to the theoretical implications of these claims for understanding the meaning(s) of artistic modernism.

VA-351 THE FIGURE IN ART (3 Credits)
This course focuses on the figure as a source of inspiration and investigation into the human form. Students will work weekly directly from a live model supplemented through slide lectures and visits to the galleries of The Quick Arts Center. Students will undertake a progressive and integrated study in both wet and dry media that will embrace work with gesture, contour, mass, value, proportion and composition. Paraphrase sketchbook studies after master artists will assist the student in an awareness of major figurative works throughout the history of art. No Prerequisite, but portfolio review by instructor is advised. There is an additional course fee, commensurate with the materials provided for student production.

VA-351H THE FIGURE IN ART-HONORS (3 Credits)
This course focuses on the figure as a source of inspiration and investigation into the human form. Students will work weekly directly from a live model supplemented through slide lectures and visits to the galleries of The Quick Arts Center. Students will undertake a progressive and integrated study in both wet and dry media that will embrace work with gesture, contour, mass, value, proportion and composition. Paraphrase sketchbook studies after master artists will assist the student in an awareness of major figurative works throughout the history of art. No Prerequisite, but portfolio review by instructor is advised. There is an additional course fee, commensurate with the materials provided for student production.

Restrictions: RG.HON

VA-352 IMAGES OF ST. FRANCIS OF ASSISI (3 Credits)
Franciscan iconography is examined within the context of artistic developments over time, and Franciscan documents that address the curious phenomenon surrounding the representational images of Francis of Assisi. Comparisons of diverse images of Francis will be the focus of our inquiry that reveals a visual history often based in Franciscan literature, yet uniquely aligned with the discipline of secular painting of the time. Post-Reformation images of Francis of Assisi are examined chronologically for content and context as they relate to the continued growth of the Franciscan Order. Iconographical elements of images of Francis that reflect the Franciscan lifestyle are compared and contrasted with images of the secular world of the same time periods, as secular iconography aggressively exerts its influence and tradition upon Franciscan themes and patronage.

VA-361 INDEPENDENT STUDY (3 Credits)
Research in selected topics in art. Designed to allow the student to probe areas of specific interest which lie beyond the coverage normally found in regular course offerings. Faculty approval required.

VA-361A ADV. INDEPENDANT STUDY (3 Credits)

VA-361B IND STA:ART IN MARKETING (3 Credits)
Research in selected topics in art. Designed to allow the student to probe areas of specific interest which lie beyond the coverage normally found in regular course offerings. Faculty approval required.

VA-399 SPECIAL TOPICS IN ART (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399A SP TOPTRAD OIL PAINT/ST TECH (3 Credits)

VA-399B SP TOP ASIAN ART & CULTURE (3 Credits)

VA-399C SPECIAL TOPICS IN ART (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399D SP TOP ARCHAEOLOGY/ANCIENT SPORT (3 Credits)

VA-399E SP TOP CLASSICAL MYTH (3 Credits)

VA-399F SP TOP SURVEY-NON-WEST ART (3 Credits)

VA-399J SP TOP JAPANESE WOODBLOCK PRINTS (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399K SP TOP JAPANESE FILM (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399L SP TOP INTRO TO GRAPHIC DESIGN (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.
VA-399M SP TOP: INTRO TO CERAMICS (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399N SP TOP: AGE OF SHAKESPEARE (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-401 ADVANCED SEMINAR (3 Credits)
This course is a seminar for majors in art history that is designed to engage students in the exploration of theoretical questions and critical perspectives that bear on our understanding of visual art and culture. Although the specific approaches used may vary, the basic aim of the Advanced Seminar is to address the issues and assumptions informing contemporary debates regarding the visual image. Topics may include the concept of representation, the notion of style, the relation of form, content, and context, and the role of theory in art.

VA-402 CAPSTONE PROJECT (3 Credits)
This is an independent project in art history designed by the student in conjunction with a faculty mentor who approves and guides it. The capstone project is intended to provide majors the opportunity to develop a topic of special interest within art history during their senior year. In particular, it will enable students to deepen their grasp of the techniques, methods, and materials pertinent to their respective concentrations within the major. The projects may vary widely from researching and writing a thesis to curating a gallery exhibit. The result of the project will be publicly presented and evaluated by a faculty committee. The course is required for the art history major.

VA-403 Art History: Capstone Project (3 Credits)
This is an independent project in art history designed by the student in conjunction with a faculty mentor who approves the design and guides its execution. The capstone project is intended to provide majors with the opportunity to develop a topic of special interest within art history during their senior year. In particular, it will enable students to deepen their grasp of the techniques, methods, and materials pertinent to their respective concentrations within the major. The projects may vary widely from researching and writing a thesis to creating a gallery exhibit. The result of the project will be publicly presented and evaluated by a faculty committee.

Restrictions: RG.74+

VA-411 SENIOR SEMINAR/EXHIBITION (3 Credits)
This course will guide students through the steps in preparation of their senior exhibit. The students will also create documentation of their artwork, portfolios, artist statements, papers and resumes. Art contracts and the business of art are also studied.

VA-488 QAC GALLERY INTERNSHIP (1 Credit)
The Student Gallery intern will function in a manner similar to a curatorial assistant. The intern will attain a working knowledge of gallery planning, procedures, and ethics as defined by the mission statement of The Regina A. Quick Center for the Arts. Duties will be determined by the center’s upcoming exhibition schedule. Responsibilities will be defined by the Assistant Director of the Quick Center and may include the following: exhibition planning and research, exhibit construction and signage, assisting with accompanying arts education programming, maintenance of exhibitions and the dismantling of exhibitions. Additional opportunities to work on traveling exhibitions and collections may be made available to the intern. Through the internship the student will gain a firsthand knowledge of the workings of a museum. Required: four hours per week.
WOMEN'S STUDIES (WS)

WS-101 INTRO TO WOMEN'S STUDIES (3 Credits)
A multidisciplinary overview of the language and concepts of the field of Women's Studies. The roles played by society in the construction of images of women will be examined. Feminist challenges to patriarchal structures of exclusion will be analyzed.

WS-106 THE WOMEN OF GREECE (3 Credits)
A survey of the status, role, and figure of women in Greek History.

WS-201 INTRO TO WOMEN'S STUDIES (3 Credits)
A multidisciplinary overview of the language and concepts of the field of Women's Studies. The roles played by society in the construction of images of women will be examined. Feminist challenges to patriarchal structures of exclusion will be analyzed.

WS-208 HIST OF AMERICAN WOMEN (3 Credits)
This course will examine the history of women in North America from the earliest European settlements to the present. Women's struggles and contributions will be studied culturally, socially, economically and politically as we examine their work in the domestic sphere, factories, fields and their demonstrations for rights in the streets.

WS-230 LATINA FEM:RACE/CLASS/GDR/CULT DIVIDE (3 Credits)
This course examines the identity and influence of distinct Latina groups throughout the US during the 20th and 21st centuries. Participants first consider the Latino condition as a whole, before the focus narrows to female-specific topics and concerns. Students explore cultural moves and restrictions, analyze distinct forms and discrimination, and learn about social organizing within Latino communities using a variety of traditional and non-traditional materials, including experiential learning. Some knowledge of Spanish is valuable, but not required. Taught in English.

Prerequisite(s): Take WS-201

WS-299 SP TOP IN WOMEN'S STUDIES (3 Credits)
An intensive study of a particular area or topic in Women's Studies. The content of the course will be announced prior to the semester in which it is offered.

WS-299A WOMEN AND VIOLENCE (3 Credits)
WS-299B WOMEN AND WAR (3 Credits)
WS-299C WOMEN IN BUSINESS (3 Credits)
WS-299D LATINA FEMINISMS (3 Credits)
WS-299E Women in the Ancient & Mod Middle East (3 Credits)
WS-299F Female Body in Science, Art & Theology (3 Credits)
WS-299G WOMEN & THE BIBLE (3 Credits)
WS-299H WOMEN AND FRANCISCANISM (3 Credits)
WS-299I WOMEN AND THE LAW (3 Credits)
WS-299J WOMEN AND FRANCISCANISM (3 Credits)
WS-299K WOMEN & SOCIETY (3 Credits)
WS-299L NATIVE AMERICAN WOMEN IN LITERATURE & Culture (3 Credits)
WS-299M GENDER & SEXUALITY (3 Credits)
WS-304 WOMEN & RELIGION (3 Credits)
Religion has played a key role in defining society's understanding of women and the roles that women have been allowed to play across the centuries. This course examines how women have been viewed and treated in the major religious traditions. Special attention is given to feminist critiques of traditional religion and the struggles of women to take control of their own religious destinies.

WS-305 WOMEN AND THE MEDIEVAL CHURCH (3 Credits)
This course elaborates the contribution of women to the Medieval Church. Special emphasis will be given to the life and influence women whose lives have affected the mystical and missionary vitality of the Church and the development of the Franciscan family. In addition to identifying primary and secondary sources for the study of women of specific periods, participants will develop an understanding of prominent and recurring issues affecting the lives of women in the Church. Exploring the historical women will serve as a starting point to examining issues affecting women in the Church today. Class methods will prepare students to develop further research.

WS-310 SP.STY:FEMINIST PHILOSOPHY (3 Credits)
In recent decades feminist thought has become vital, even crucial, in the effort to raise questions and challenge prejudices regarding our understanding of sex/gender matters and their multiple ramifications in every area of inquiry. The course surveys the theory and practice of contemporary feminism and the critical perspectives that it brings to bear on moral, social and cultural issues.

WS-313 WOMEN IN SPORTS (3 Credits)
This course covers the past, present and future of women and sport, addressing subjects such as women's sports in ancient Crete, industrial league sport for women, biomedical considerations, and psychosocial, political, and economic factors that have led to changes in women in sport.

WS-314 SEX ROLES, FEM/MASC BEHAVIOR (3 Credits)
An analysis of the traditional roles of males and females in American society, their effects on our lives and the factors that maintain them. Theory and research on growing up masculine or feminine include topics like sex differences in achievement, interpersonal power and non-verbal communication, personality and ability variables, sexuality and reproduction, and psychological disorders related to role strain.

Prerequisite(s): PSYC-101

WS-315 HUMAN SEXUALITY (3 Credits)
This course will offer a broad view of human sexuality from multidisciplinary perspectives: the psychological, biological, sociological, and historical. Topics will include research methods in the area of sexuality, human sexual anatomy, response, motivations, variations, reproduction, and basic sexological vocabulary, gender differences, developmental issues, and current and emerging theories and controversies regarding gender identity, sexual orientation, and the treatment approaches for sexual dysfunction and other sexual problems.

Prerequisite(s): Take PSYC-101
WS-323 WOMEN ARTISTS: THEN & NOW (3 Credits)
This course examines the lives, careers, and achievements of women artists and the related cultural environment from the Middle Ages to contemporary times in Europe and America, the feminist movement beginning in the 1970’s and specifically feminist issues in art that are becoming widespread in the artistic culture. We will consider women’s creative powers as consumers, producers, critics, supporters, objects and subjects of ‘art’ as expressed in selected examples of studio art. Specifically, we will be concerned with how women have used art and culture to change their own status and conditions and to remake their worlds.

WS-325 HISPANIC WOMEN WRITERS (3 Credits)
Students will study literature written by women in the Hispanic world from the past to the new millennium. Selected works will be approached from historical, literary, social, and political perspectives for a critical modern understanding of women's roles, issues, and their contributions to the humanities in the past and in contemporary Hispanic societies.

WS-330 WS ANCIENT/MOD MIDDLE EAST (3 Credits)
A survey of the social position of women in selected areas of the Ancient and Modern Middle East from prehistory to the present day through various sources and disciplines including: history, biography, art, archaeology, law, literature, politics and religion.

WS-339 PHIL. OF LOVE & SEX (3 Credits)
A critical examination of various problems in the areas of sexual language, monogamous marriage and its alternatives, pre-marital and extra-marital sex, the logic of deviation, feminism, pornography, abortion and the concept of love.

WS-366 WOMEN IN EAST ASIA (3 Credits)
Women in East Asia explores how Chinese and Japanese women created, accepted, defended, revised, or resisted their roles in traditional society and how those roles changed after the coming of the West. It will use a comparative approach to understand the similarities and differences in these two traditions as well as how women’s roles varied across class and ethnic boundaries. This course uses an interdisciplinary approach, emphasizes discussion, and includes a variety of sources including historical studies, oral histories, fiction, and film.

WS-374 WOMEN AND THE BIBLE (3 Credits)
The Bible was written by, for, and about men. As a result, it reflects the ideas, judgments, and worldviews of men. This course examines how this male-centered perspective affects the way women are portrayed (or more often ignored) throughout the biblical record. The contributions of women to the social and religious life of ancient Israel and the early Christian church are regularly downplayed in these writings, and negative images and stereotypes of women abound. The few women who are honored for their accomplishments are notable exceptions to the rule. What are we to make of this overt bias? Does faithfulness to the Bible mean that people of faith must accept all that it says about women and men? Is it possible for us to learn to read the biblical texts in a gender-neutral way? What could we learn about the place of women in ancient Israel and the early church if we make the effort? These are some of the questions that will be addressed in this course.

WS-375 WOMEN & POLITICS (3 Credits)
Women in most societies have been traditionally considered apolitical. This course seeks to break this commonly held image of women in a number of ways. A primary goal of the course is to develop a broad and sophisticated understanding of politics that can reveal the multifaceted ways in which women are politically involved. A second goal of the course is to recognize the diversity of women in politics will be enhanced by consideration of women in a variety of political settings. The course seeks to develop an understanding of how different political and economic regime types - revolutionary, military, democratic, neo-liberal, etc. - have a distinct impact on women and men.

WS-377 WOMEN IN LITERATURE (3 Credits)
This course will involve an in-depth critical investigation of literature written by or about women. Concentration on works from the 18th, 19th and 20th centuries. Focus on fiction.

WS-401 COLL: IN WOMEN'S STUDIES (3 Credits)
An advanced seminar designed for students pursuing the secondary concentration in Women's Studies. The course will explore contemporary issues in Women's Studies through discussions of relevant books, articles, films and other materials. Students will complete a research project that addresses the connection of Women's Studies to their major discipline.
Prerequisite(s): WS-201
Restrictions: RGC.105

WS-403 WOMEN, MINORITIES, & MEDIA (3 Credits)
The course has two main themes: the history of women and minority journalists working in the U.S. media from the colonial era to the present day and the portrayals by the media of these collective groups often left outside the mainstream. Films, guest speakers and primary source materials supplement the overview textbooks.

WS-482 WOMEN, MINORITIES & THE MEDIA (3 Credits)
This course has two main themes: the history of women and minority journalists working in the U.S. media from the Colonial era to the present day and portrayals by the media of these collective groups often left outside the mainstream. Films, guest speakers and primary source materials supplement the overview textbook.

WS-490 INDEPENDENT STUDY (3 Credits)
Directed independent study in selected topics in Women's Studies. Student will engage in an advanced project, selected readings or research. Such course can replace any required or elective course in Women's Studies. May be taken more than once for a maximum of 6 credits.

WS-499 COLLOQUIUM IN WOMEN'S STY (3 Credits)
An advanced seminar designed for students pursuing a major or minor in Women's Studies. The course will explore contemporary issues in Women's Studies through a combination of readings and student research, including one capstone paper. The topic of the seminar, which may vary from year to year is announced ahead of time in the university course schedule.
Prerequisite(s): Take WS-101 and 6 credits of WS courses
DEGREE REQUIREMENTS

A candidate will be considered for a bachelor’s degree upon the completion of a minimum of one hundred and twenty (120) credit hours to include General Education requirements and a major with a cumulative index of 2.00 or better in the major field as well as in the student’s overall program. The number of credit hours awarded for satisfactory completion of courses is ordinarily the same as the number of hours spent per week in the classroom. Two to four hours of laboratory work are considered the equivalent of one hour of class work.

Degree Requirements

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<tr>
<td>THFS-101</td>
<td>THE WAY OF FRANCIS &amp; CLARE</td>
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<tr>
<td>SBU-101</td>
<td>COMMUNITY OF LEARNERS</td>
<td>2</td>
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<td>SBU-102</td>
<td>AN INTRODUCTION TO CONTEMPORARY DIVERSITY</td>
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<td>PHIL-104</td>
<td>INTRODUCTION TO ETHICS</td>
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<td>3</td>
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<td>ENG-102</td>
<td>Writing II</td>
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<td>ENG-102</td>
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Franciscan Studies/Theology Distribution 3
Historical Studies Distribution 3
Literature and the Visual & Performing Arts Distribution 3
Natural Science with Lab Distribution 4
Philosophy Distribution 3
Quantitative Literacy (Course may be determined by major) 3
Social Science Distribution 3
Diversity Designation 3
Writing Designation 3

Major

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<td>Major Requirements (See individual department listings)</td>
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<tr>
<td>Other School, Major, Minor or General Elective Requirements</td>
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Total Credits 120

For the 2019-2020 academic year, the following courses will fulfill General Education requirements as indicated below. If the course is needed to fulfill a major requirement, the student’s academic adviser should be consulted.

General Education

St. Bonaventure University is a Catholic university dedicated to educational excellence in the Franciscan tradition. We enhance the lives of our students and help them prepare for their futures by providing experiences that build knowledge, skills, and character. Our University has its roots in the traditional liberal arts and sciences, and the general education curriculum values that tradition within the context of the Catholic and Franciscan intellectual heritage. Its aim is to provide students with foundational knowledge for all majors that aligns with the University’s six student learning goals:

1. Basic knowledge of the liberal arts and sciences, specialized knowledge in a particular area of study, and the ability to integrate knowledge from different academic disciplines.

2. The ability to think constructively, critically, and creatively, including competencies in analytic inquiry, quantitative literacy, information literacy, evidential reasoning, and problem solving.

3. Competence in multimodal communication with special emphasis on oral, written, and digital communication, including an understanding of key issues relating to their use.

4. A disposition to understand societal issues, seek solutions, and become responsible citizens.

5. An ability to engage with ultimate questions of a metaphysical, theological, and philosophical nature.

6. A basic understanding of the Catholic tradition and an appreciation of the intellectual and moral virtues expressed in the Franciscan movement (e.g., humility, compassion, justice with peace, love of wisdom, and the inherent goodness of all creation).

Within the framework of these goals and the University’s Mission, the general education curriculum offers students an educational experience that encourages them to examine critically their own cultural assumptions and to explore openly and fairly other perspectives and cultures. This deepening appreciation of their own heritage and sensitive openness to alternative frameworks should prepare students to take their place as thinking, moral individuals in a global community.

All incoming students begin their academic careers at St. Bonaventure University through the General Education requirements. After their first year in residence, students who have declared a major will transfer to the appropriate department and school of the University. All students are expected to declare a major program of study before they begin their third year in residence at St. Bonaventure University.

Overview of General Education

A 37 hour program to help students appreciate a liberal arts education. Each required specific course and each distribution list have been developed based on a list of learning objectives and assessment procedures.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBU-101</td>
<td>COMMUNITY OF LEARNERS</td>
<td>2</td>
</tr>
<tr>
<td>SBU-102</td>
<td>AN INTRODUCTION TO CONTEMPORARY DIVERSITY</td>
<td>1</td>
</tr>
<tr>
<td>THFS-101</td>
<td>THE WAY OF FRANCIS &amp; CLARE</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-104</td>
<td>INTRODUCTION TO ETHICS</td>
<td>3</td>
</tr>
<tr>
<td>ENG-101</td>
<td>WRITING I</td>
<td>3</td>
</tr>
<tr>
<td>ENG-102</td>
<td>Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from each distribution:</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Theology/Franciscan Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Historical Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Literature and the Visual and Performing Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Science with a lab (4 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
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<tr>
<td>Philosophy</td>
<td></td>
<td></td>
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<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one course from each designation:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intensive Writing (W)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Diversity (D)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 37
These types of courses can be found anywhere in the curriculum of the University (among the distribution lists above, in a major or minor, or any elective courses. Please see catalog to find a list of courses that apply).

Technology Competence (to be found within the major)
Students must demonstrate proficiency in “Information Literacy and Computer Literacy, and in Technological Competency.

Definitions
• Information Literacy (IL): “The ability to know when there is a need for information, to be able to identify, locate, evaluate, and effectively and responsibly use and share that information for the problem at hand.” (VALUE definition) This will necessarily include web searches, database searches etc. as well as evaluating the quality of information. (Most programs should include such training already).
• Computer literacy (CL): The ability to use computers and related technology efficiently and comfortably.
• Technological Competency (TC): The ability to understand how society has been influenced and is continuously changing because of technologies. This includes an understanding of the ethical, legal, philosophical, and security issues with respect to their use.

Majors
All students in selecting courses must choose a particular field of concentration, which is called a major. The major consists of a minimum of 30 hours of no fewer than 10 courses. The choice of major should be made before the end of the sophomore year. After the selection of the major, the student must be guided by the requirements of the University in determining the subjects to be taken. The department chair will assign to the student a faculty adviser who will assist each undergraduate in preparing his/her semester program.

Arts
• Art History
• Criminology
• English
• Environmental Studies
• Health and Society
• History
• International Studies
• Music
• Philosophy
• Political Science
• Psychology
• Sociology
• Spanish
• Theater
• Theology
• Visual Arts
• Women’s Studies

Sciences
• Behavioral Neuroscience
• Biochemistry
• Bioinformatics
• Biology
• Chemistry
• Computer Science
• Cybersecurity
• Engineering Physics
• Health and Society
• Mathematics
• Physics
• Psychology

Business
• Accounting
• Finance
• Management
• Marketing

Communication
• Broadcast Journalism
• Journalism
• Sports Media
• Strategic Communication

Education
• Adolescence Education with Disciplinary Concentration
• Childhood Studies
• Childhood Education
• Childhood and Early Childhood Education
• Inclusive Childhood Education
• Inclusive Childhood and Early Childhood Education
• Physical Education
• Sport Studies

Health Professions
• Health Science
• Nursing
• Public Health

Foreign Language Requirements
School of Arts and Sciences and Jandoli School of Communication majors must satisfy the foreign language requirement for the degree by successfully completing as a minimum a second semester intermediate course or any higher level modern or classical language course (exclusive of courses in translation). Most programs in the School of Education require one full year of a language: the Physical Education major requires 1 course (3 credits). The Department of Modern Languages reviews the files of new students for language knowledge and recommends placement at a specific level. Students may choose to begin language studies at that level or may change upon consultation with a chair of the department of Modern Languages. All students who have a language requirement can fulfill it in three ways:

1. Continue the language they started in high school, if it is offered on campus, and reach the level or number of credits required, or
2. Start a new language at the 101 level and reach the level or number of credits required (see specific majors in catalog), or
3. Earn the required credits by taking a CLEP exam in French, German or Spanish and meeting the level of number of credits required by the student’s particular major. Students must take the exam at their
own expense and must submit official scores to the Records Office. Credit will be awarded based on scores earned and as outlined in the undergraduate catalog.

A student’s foreign language requirement can be waived if the student took the TOEFL and scored at the following minimum levels: 79-80 for Internet-Based Exam, 213 on the Computer-based Exam and 550 on the Paper-Based Exam. Education majors are not eligible for this waiver. Please see the chair of the Department of Modern Languages to begin the waiver process.

**Double Majors**

To have a double major acknowledged on the transcript, students must:

1. Declare their intent to complete a double major. The official forms for this are available from the Records Office. They must be completed and submitted to the Records Office no later than the second semester of their junior year.
2. Achieve a 2.00 grade point average in the courses that constitute a double major. This is calculated separately from the first major index.
3. Choose which degree will be listed on diploma. Only one degree will be awarded.

**Individualized Majors**

Undergraduate students with clearly defined academic or career objectives have the opportunity to create a tailored degree program for a major not available from the majors listed elsewhere in the catalog. With the exception of transfer students with an associate’s degree (see below), an interested student must have, at the time of application, completed a minimum of 15 credits at St. Bonaventure University, be in good academic standing and have at least 45 credit hours remaining to complete the proposed degree requirements.

The degree requirements for the Individualized Major must:

1. Include at least 120 total credit hours
2. Include at least 30 credit hours, but not more than 51 credit hours, in the major with the following additional requirements:
   a. At least 12 credit hours in the major must be at the 300-level or above
   b. Every student in the Individualized Major program is required to complete
      i. A 300 or 400 level 3- credit course designated as their capstone
         1. To be taken in 2nd semester junior or 1st semester senior year
         2. Course work may be designed specifically for the student's interest
      ii. A 3-credit independent study in their 2nd semester senior year
         1. Designed and supervised by the two major advisors
         2. Will result in a capstone project that includes some reflection on the major experience as a whole
         3. Will count towards their 12-course minimum major requirement
3. Satisfy all of the general education and/or core curriculum requirements.
4. Satisfy the University requirements appropriate to the area of study and degree proposed (e.g. language requirements in schools that require one).
5. Meet the requirements for the degree proposed (BBA, BA, BS) in accordance with the applicable New York State requirements (Chapter 1 of Title 8, section 3.4.7).

The proposal should be developed in conjunction with both a primary and secondary adviser, selected from the University’s full-time faculty. The proposal submission should include a student-written narrative explaining the rationale for the proposed Individualized Major, the learning outcomes to be achieved, the rationale for the courses composing the major and a proposed title for the major. The title cannot a title of an established major at SBU or one that requires state licensure or is otherwise regulated by external governments or accreditation agencies. Approval for any IM proposal needs to be given by the two major advisors, the IM program director in consultation with the IM Review Board, and the Provost. In case of FHCP students, the director of FHCP and the professional school also need to approve. The Major Change form needs to be signed by the chair of the program in which the student was initially housed (in case of MAP students, the director of the MAP program), the primary advisor, and the director of the IM program. The degree will be awarded from the School of the University in which the greatest number of major credits will be completed and at least one of the IM advisors has to be housed in that school.

Once approved the documentation will be forwarded to the Registrar’s Office and will constitute the student’s official approved major program of study. Any changes to the approved major requirements will require the same approvals as the original proposal. Approved changes may be documented either through formal changes to the approved program proposal or via the established course substitution process. To earn the Individualized Major degree the student must satisfactorily complete all the approved degree and course requirements and achieve a minimum cumulative GPA of 2.0 and a minimum major GPA of 2.0.

**Transfer Students**

Transfer student with an associate's degree can be placed into the IM program as soon as they have been admitted and a brief outline of their proposed Individualized Major has been accepted by the IM director in consultation with the board. They will have to submit a full proposal within the first 2 weeks of their second semester at SBU.

**Minors**

To have a minor acknowledged on the transcript, students must:

1. Declare their intent to complete a minor. The official forms for this are available online at my.sbu.edu (http://my.sbu.edu). They must be completed and submitted to the Records Office no later than the second semester of their junior year.
2. Achieve a 2.00 grade point average in the courses that constitute the minor. This is calculated separately from the major index. This stipulation applies to all minors including the non-psychology portions of the B.S. degree in psychology programs and to the non-biology portions of biology combination programs. A minor is not required for graduation. For a listing of required courses, refer to the departmental listings.

Students may obtain minors in the following areas:

- Accounting
- Arabic & Islamic Studies
- Art History
- Biology
Degree Requirements

- Business Administration
- Chemistry
- Classics
- Communication
- Computer Science
- Criminology
- Economics
- English
- Environmental Studies
- Family Business
- Finance
- French
- History
- Human Services
- International Business
- International Studies
- Latin
- Law & Society
- Management
- Marketing
- Mathematics
- Movement Studies
- Music
- Nonviolence
- Philosophy: Art & Literature
- Philosophy: Ethics & Medicine
- Philosophy: Law & Politics
- Philosophy: Social Justice
- Physics
- Political Science
- Psychology
- Quantitative Analysis
- Sociology
- Spanish
- Sports Management
- Sport Studies
- Theater
- Theology
- Visual Arts: Studio Track
- Visual Arts: Combined
- Women's Studies

4+1 Programs

Students may earn both the bachelor’s and master’s degrees in five years through an accelerated 4+1 program. Students who have applied and been accepted into the graduate Integrated Marketing Communications program begin classes toward the master’s degree in their fourth year while enrolled as undergraduate students completing undergraduate requirements. They then finish the graduate program in their fifth year. This program is available for Integrated Marketing Communications and is open to any undergraduate major in the University.

Residence Requirement

To be certified for a baccalaureate degree, candidates must have satisfied the residence requirement. This specifies that the candidates must successfully complete at St. Bonaventure University.

1. The final 36 credit hours for the degree;
2. At least half of the number of major courses; and
3. No fewer than 45 undergraduate credit hours at SBU.

Any petition for an exception from the residence requirement must be directed in writing to the Vice President for Academic Affairs, who has the sole authority to grant such exception.

Application for Graduation

Candidates for degrees must apply for graduation during the last semester of study of their senior year by completing the official application form online at https://my.sbu.edu/custom/degree-apps/under-grad-degree-app or by completing a paper form found at the Registrar’s Office. Failure to do so may delay certification of their degree and procurement of their diplomas.

Commencement Attendance Policy

1. Following the fall semester, all senior records will be evaluated. Students who have a 2.00 overall G.P.A., a 2.00 in their major (a 3.00 GPA is required for Education majors), and who have registered for the courses needed to complete degree requirements may be permitted to participate in the Commencement exercises.
2. If a student does not have a 2.00 overall G.P.A. or a 2.00 in the student’s major (3.00 for Education majors) or is not registered for the courses needed to complete degree requirements, the student will be informed in writing in January that participation in the Commencement exercises will be permitted only if the deficiency(ies) is (are) cleared through course work taken in the spring semester.
3. If a student ultimately fails to satisfy any degree requirements, but has 6 or fewer credit hours remaining toward degree completion, the student may fill out an undergraduate Commencement participation agreement form to petition to walk in the Commencement ceremonies. Petitions must be made to the Registrar.

Candidates for degrees should be present at Commencement. Those who are unable to attend should inform the Registrar’s Office at least one week prior to the ceremony and request permission to receive the degree in absentia.

Comprehensive Examinations

The success with which the student has achieved an overall understanding of the student’s major field is tested during the senior year of the student. This test may take such forms as: a senior seminar course requiring the application of knowledge and skills presumably acquired through the major program, a senior thesis demonstrating mastery of the skills needed for independent study in the major field, or a comprehensive examination, written and/or oral. The specific form of the requirement will be determined by the major department with the approval of the dean of the school (see individual department listings).

No student will be eligible for a degree until the student satisfies this requirement.
If a student fails the comprehensive exam, whatever form the test takes, the student will normally not be permitted to retake the test until the following semester. St. Bonaventure employs a cumulative index of scholarship for the purpose of bringing out the best that is in a student; eliminating those lacking sufficient talent for college work; and aiding and encouraging the hard-working student.
FINANCIAL AID

St. Bonaventure University is aware of the fact that it is becoming more of a challenge to meet the rising costs of a college education. The financial aid programs at St. Bonaventure have been developed with that in mind. Eligibility for most forms of aid is based primarily on need and/ or academic achievement. A student must be matriculating in order to qualify for any financial aid. Federal and New York State regulations also stipulate that students may receive financial aid only for courses that are required for their degree program. The following sections give a general overview of the types of financial assistance available to students and their families. Students must file the Free Application for Federal Student Aid (FAFSA) so that eligibility for federal programs may be determined. New York residents seeking TAP must file a New York State TAP Application.

St. Bonaventure University Grants and Scholarships

A student must be enrolled full-time (12 credit hours per semester or more) at St. Bonaventure to receive institutional scholarships or grants. These scholarships and grants are available for undergraduate study for up to eight semesters only. Funds cannot be used to cover study abroad costs or summer school costs. Academic scholarship and grant amounts are determined for incoming students and are renewed at the original amount each year thereafter provided the minimum cumulative GPA is met. Scholarships are applied towards tuition and fees.

Presidential Awards

This prestigious scholarship is awarded annually to incoming freshmen with exceptional academic credentials regardless of financial need. A cumulative grade point average of 3.25 or better is required for renewal. The resident portion of the award requires that a student reside in campus housing with housing charges.

Friars Scholarship

In keeping with the goals of Franciscan education, the friars of St. Bonaventure offer scholarships funded through the contributed services of the friars. This scholarship fund recognizes academically gifted freshmen and transfer students. Awards can vary dependent upon the degree of achievement of the applicant. A cumulative grade point average of 3.0 or better must be maintained for renewal. The resident portion of the award requires that a student reside in campus housing with housing charges.

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Provost Scholarship

These grants are awarded to entering freshmen and transfers with high academic achievement. A cumulative grade point average of 2.75 or better must be maintained for renewal. The resident portion of the award requires that a student reside in campus housing with housing charges.

Achievement Grant

These grants are available to entering freshmen and transfers with commendable academic incentive. A cumulative grade point average of 2.5 or better must be maintained for renewal. The resident portion of the award requires that a student reside in campus housing with housing charges.

Incentive Grant

These grants are available to entering freshmen and transfers with deserving academic incentive. A cumulative grade point average of 2.0 or better must be maintained for renewal. The resident portion of the award requires that a student reside in campus housing with housing charges.

Grant-in-Aid

These grants are available to entering and continuing students primarily on the basis of financial need, as determined by the Free Application for Federal Student Aid (FAFSA). It is a requirement that this application be filed for an initial grant and for renewal. Students must continue to demonstrate financial need and maintain a cumulative grade point average of 2.0 or better for renewal. The resident portion of the award requires that a student reside in campus housing with housing charges.

High School Scholarships

Students enrolling as regularly admitted freshmen from select area high schools may receive a $1,000 scholarship:

Unless otherwise specified, a 2.0 cumulative grade point average must be maintained for renewal of high school scholarships and other St. Bonaventure grants or scholarships not already mentioned.

Sibling Grant

This award is available to students if two or more siblings from the same immediate family are concurrently registered as full-time undergraduate students in the same semester. The grant is for $250 per semester of concurrent enrollment (or $500 max per student per year). This grant does not apply to graduate students. This grant is not applicable if a student is receiving a grant, scholarship or award that covers full tuition.

Annual and Endowed Scholarships and Grants

These scholarships are funded by generous gifts from donors to St. Bonaventure University. New scholarships are established throughout the year so opportunities for financial aid continue to grow. Many scholarships are awarded for a four-year period and may not be available to new students every year. A student must be enrolled full-time to qualify for these awards. Students will automatically be considered for awards as part of the financial aid package if they file the FAFSA by the required deadline. There is no special application required other than the FAFSA.

Giant Step Aid

Operation Giant Step is a program designed to provide an opportunity for qualified high school seniors within commuter distance to enroll in college-level courses with credit prior to the completion of their high school education. Students will be allowed to take as many as six hours per term. The University fee is $200 per credit hour per course, subject to change and dependent upon tuition increases. For more detailed information contact the Office of Admissions (see Admissions section also).

Senior Citizen Program

St. Bonaventure University invites senior citizens to enroll in undergraduate, graduate, and continuing education courses. The privilege is extended to eligible persons 60 years of age or older. The cost of tuition varies depending on the individual's application status: auditor, non-matriculant, or matriculant. Regardless of the application status, an individual is responsible for the cost of books and supplies as may be needed for a course.
Applicants must procure the senior citizen application form from the Office of Admissions. This form should be completed and returned prior to registration day of the session for which the applicant intends to enroll. The University fee is $200 per credit hour per course, subject to change.

Military Aligned Student Assistance Grant
Veterans, active duty service members, reservist, guardsmen, and their dependents are eligible for the SBU Military Aligned Student Assistance Grant. The grant assures that veterans and their dependents (as defined on the FAFSA) will receive a minimum of 50% of their tuition costs in grants and scholarships.

The grant amount is determined by taking the total tuition charges and subtracting all other grants and scholarships that the student qualifies to receive. The SBU Military Aligned Student Assistance Grant is awarded after all other aid. Grants and scholarships include but are not limited to the federal Pell Grant, NYS TAP, SBU merit and need based scholarships, Post 9/11 GI Bill, Montgomery GI Bill, Yellow Ribbon, and other veterans’ educational benefits. If at least 50% of the tuition charges are covered by other grants and scholarships, then the student will not qualify for any additional SBU Military Aligned Student Assistance Grant. This grant is available to all full and part time students enrolled in all undergraduate and graduate SBU academic programs and majors with the exception of SBU online programs.

Say Yes to Education Scholarship
Contact the Office of Financial Aid for more information.

New York State Grants and Scholarships
Recipient must be in good academic standing in accordance with the New York state commissioner’s regulations, and must not be in default of a loan guaranteed by the Higher Education Services Corporation of New York. These standards are listed in the section titled “Criteria for Renewal of Financial Aid.”

The information provided regarding New York state grants and scholarships is subject to change based on legislative action that could occur after the date of this publication. For more information, go online to http://www.hesc.ny.gov.

Tuition Assistance Program (TAP)
The following information is based on programs provided by New York state statute. Some programs may not be funded at the levels indicated and are subject to yearly approval by the New York State Legislature.

The New York Higher Education Services Corporation offers grants to New York state residents enrolled in full-time programs in approved New York State colleges and universities in amounts ranging from $500 to $5,165 per year.

To be eligible for TAP, a student must be a full-time student carrying at least 12 credit hours in each fall and spring semester. Other than students enrolled in the HEOP program, a student at St. Bonaventure is not eligible to receive more than eight semesters of undergraduate TAP.

TAP Application Procedures
Complete and submit the Free Application for Federal Student Aid (FAFSA), which can be filed electronically at http://www.fafsa.ed.gov. Once the FAFSA is completed and you are a New York State resident, and list at least one New York State school on the application, you will be linked to http://www.hesc.ny.gov to complete the Express TAP Application (ETA) online. If you not link from the FAFSA online, the New York State Higher Education Services Corporation (NYSHECSC) will email you online instructions for completing the TAP-on-the-Web application.

Award Schedule
The amount of the TAP award is scaled according to level of study, tuition charge and net taxable income.¹

¹ The income measure is the family’s (or independent student’s) New York state net taxable income from the preceding tax year plus certain non-taxable income, and (for dependent students) support from divorced or separated parents. This income is further adjusted to reflect other family members enrolled full-time in post-secondary study.

Regents Award for Children of Deceased or Disabled Veterans
Contact the Office of Financial Aid for more information.

Child of Deceased Police Officer-Firefighter
Contact the Office of Financial Aid or the New York State Higher Education Service Corporation for more information.

State Aid to Native Americans
Enrolled members of a New York State tribe and their children who are attending, or planning to attend a college in New York State and are New York State Residents, are eligible.

Applications must be postmarked by July 15th for the fall semester, December 31st for the spring semester, and May 20th for the summer session. Specific eligibility criteria and applications can be found at the New York state Education Department, Native American Education Unit.

Division of Vocational Rehabilitation (VESID)
Some individuals because of the severity of a disability are eligible for educational financial assistance through the Division of Vocational Rehabilitation. Awards are based upon the degree of disability and the financial capabilities of the family to provide for the student’s education. Should you have such a disability, please contact the Agency of the Division of Vocational Rehabilitation serving your area, and discuss the matter with a counselor.

Arthur O. Eve Higher Education Opportunity Program (HEOP)
This program is designed for students who have the potential for, and interest in, furthering their education but are not admissible under St. Bonaventure University’s regular admissions requirements. Students must meet the economic and academic criteria as prescribed by the New York State Department of Education. Further information may be obtained by contacting the Director of HEOP.

Federal Loans
In order to continue to receive federal grants, students must continue to make satisfactory academic progress according to the information outlined in the section entitled “Criteria for Renewal of Financial Aid.”

Federal Pell Grant
The Federal Pell Grant is a federal program designed to provide financial assistance to those who need it to attend post-high school educational institutions. The amount of a Federal Pell Grant is determined on the basis of a family’s financial resources. The grant is based on need, and
may range from $619 to $6,195. The Free Application for Federal Student Aid (FAFSA) must be submitted by those who wish to apply for the Pell Grant.

**Federal Supplemental Educational Opportunity Grants (FSEOG)**

This is a federal aid program that provides for assistance to undergraduate students with exceptional demonstrated financial need. The grants range from $100 to $4,000 per year. All applicants are required to file a FAFSA for each academic year.

The University determines the amount of the awards and the recipients based on the funds made available to the University in a given year. Priority is given to Pell Grant recipients. Receipt of FSEOG in one year does not guarantee receipt in subsequent years.

**Veterans Assistance**

Students with educational benefits available to them through the Veterans Administration should contact the Veterans coordinator in the Office of Financial Aid. Information is also available on the SBU Financial Aid website.

**Loans**

**Federal Direct Loan Program**

**Application Procedures**

Students must file a FAFSA in order to have eligibility determined. Students may qualify for a "subsidized" loan, which is based on need, or an "unsubsidized" loan regardless of need. Once eligibility has been established, the student will be notified of the process to follow. It will be necessary to complete a Master Promissory Note (MPN) and loan entrance counseling. St. Bonaventure will send instructions on how to complete the promissory note electronically (eMPN) and loan Entrance Counseling. For the school year beginning in the fall, funds may not be disbursed earlier than the start of the semester. Funds for first-year, first-time students will not be disbursed until approximately three weeks after the start of the term.

**Selection of Recipients and Allocation of Awards**

To be eligible for a Federal Direct loan a student must be:

1. a U.S. citizen or permanent resident alien; and
2. admitted as a matriculated, at least half-time, student at an approved college, university or other postsecondary institution in any of the United States or in a foreign country.

**Loan Schedule**

An undergraduate student may borrow up to $5,500 (at least $2000 unsubsidized) for the first year of study, $6,500 ($4,500 subsidized, $2000 unsubsidized) for the second year, and up to $7,500 ($5,500 subsidized, $2000 unsubsidized) for each of three or more years, to a maximum of $31,000 (no more than $23,000 can be subsidized). If you are an independent undergraduate, you can borrow up to $9,500 for the first year (at least $6,000 must be in unsubsidized Federal Direct loans); $10,500 for the second year (at least $6,000 must be in unsubsidized Federal Direct loans); and $12,500 for the third and fourth (and possibly fifth) academic years (at least $7,000 of this amount must be in unsubsidized Federal Direct loans).

The total Federal Direct loan debt you can have outstanding as a dependent undergraduate is $31,000; as an independent undergraduate, $57,500.

**Rights and Responsibilities of Recipients**

An undergraduate student may borrow at relatively low fixed and variable interest rates subsidized and unsubsidized Federal Direct Loans. Payment of principal may further be deferred during study under a graduate program approved by the U.S. Commissioner of Education, during up to three years of active U.S. armed forces service, during up to three years as a full-time Peace Corps or VISTA or similar national program volunteer, or during up to 12 months of unsuccessful search for full-time employment.

If you have a need-based (subsidized) Federal Direct Loan, the federal government pays the interest on the loan while you are in school during the grace period or in deferment. If you have a non-need-based (unsubsidized) Federal Direct Loan, you will be responsible for the interest during in-school and deferment periods.

After ceasing to be enrolled at least half-time, the borrower must make formal arrangements with the lending institution to begin repayment. The following regulations apply:

1. Depending on the amount of the loan, the minimum monthly payment will generally be $50 plus interest. Under unusual and extenuating circumstances, a lender, on request, may authorize reduced payments.
2. The maximum repayment period is generally 10 years.
3. Repayment in whole or part may be made at any time without penalty.
4. Borrowers may be able to consolidate all loan payments. Consult the Office of Financial Aid or your lender.

**Federal Direct Plus Loans for Parents & Graduate Students**

Federal Direct PLUS loans enable parents with good credit histories to borrow for each child who is enrolled at least half-time and is a dependent student. The yearly loan limit is the cost of education minus any estimated financial aid for which a student may qualify.

**Institutional Loans**

**SBU Student Loan Program**

This program is available to seniors who are within nine months of receiving a degree at the time of disbursement. The following are steps that need to be completed to be considered for the loan:

1. File the SBU loan application.
2. File the FAFSA (the University must receive the processed results).
3. The applicant must demonstrate a financial need.
4. The applicant must have exhausted Federal Direct Loan eligibility for the year.

All loan applications will be judged on the basis of financial need, and can range up to $1,000 for the academic year, dependent upon student or family circumstances and available institutional funds.

**Alternative Education Loans**

Before borrowing an Alternative Education loan, be sure to exhaust all federal loan options first (Federal Perkins loan, Federal Direct Student loans and Federal Parent PLUS loans). An alternative loan is borrowed through a major lender. The borrower and cosigner must go through a credit check. In most cases, no repayment is required on the loan while the student is in school. However, you do have the option to pay the principal and/or interest while in school.

Visit http://www.elmselect.com where you will find a link to St. Bonaventure’s profile page on ELM Select. ELM is a not-for-profit service.
that allows you to research many alternative loan lenders and their loan products, as well as compare them side by side to find the best loan for you. Once you have selected a loan, you can apply directly from the ELM Select page. Though St. Bonaventure provides a list of lenders with whom we have worked in the past, you are free to choose any lender. St. Bonaventure does not discriminate and will not intentionally delay or refuse to process a loan from a lender that is not represented on the provided list.

After you complete the loan paperwork and the loan is approved, the lender will send SBU’s financial aid office the loan certification. Loans will disburse at the beginning of the semester.

**Federal Work Study**

St. Bonaventure University administers the Federal Work Study Program, which provides jobs for students with demonstrated financial need. Both full-time and part-time undergraduate are eligible to participate in the program. Placement in a job depends on the availability of open positions. A portion of Federal Work Study funds are allocated to community service positions. The FAFSA must be filed each year if you desire job placement or renewal consideration.

**St. Bonaventure University Student Employment Program**

St. Bonaventure operates its own work program (Bona Work) as a supplement to the Federal Work Study Program. Some opportunities for placement do exist on campus. Placement in a job depends on the availability of open positions. Job opportunities are posted on the SBU Web site. Access to job postings is available to all enrolled students with a valid e-mail account. Information may be obtained by contacting the Office of Financial Aid.

**Criteria for Renewal of Financial Aid**

**St. Bonaventure University Aid**

A student must maintain both full-time status (12 credit hours) each semester and maintain the following cumulative grade point averages to have institutional awards renewed as outlined in the following chart. Please note that the St. Bona Grant-in-Aid, St. Bona Resident Grant are based on financial need and are subject to change if a family’s financial circumstances change. A FAFSA must be submitted annually for review by the Office of Financial Aid. All resident grant/scholarship recipients must reside on campus and have housing charges in order to renew the award. Appeals regarding loss of St. Bonaventure Aid may be made to the Financial Aid Appeals Chair, c/o Office of Financial Aid.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presidential Scholarship/Resident Scholarship</td>
<td></td>
<td>3.25</td>
</tr>
<tr>
<td>Friars Scholarship/Resident Scholarship</td>
<td></td>
<td>3.00</td>
</tr>
<tr>
<td>Provost Scholarship/Resident Award</td>
<td></td>
<td>2.75</td>
</tr>
<tr>
<td>St. Bonaventure Achievement Grant/Resident Grant</td>
<td></td>
<td>2.50</td>
</tr>
<tr>
<td>St. Bonaventure Incentive Grant/Resident Grant</td>
<td></td>
<td>2.00</td>
</tr>
<tr>
<td>St. Bonaventure Grant-in-Aid/Resident Grant</td>
<td></td>
<td>2.00</td>
</tr>
<tr>
<td>High School/Endowed (named) and other SBU Scholarships</td>
<td></td>
<td>2.00</td>
</tr>
</tbody>
</table>

**Federal Aid**

In addition to meeting the academic standards outlined in the section dealing with academic policies, full-time students who are recipients of any federal aid (Federal Pell, FSEOG, FWS, Federal Perkins, Federal Direct, PLUS) must also complete their educational objective within a period which is equivalent to 150% of the expected degree completion time frame (adjustments are made for difference in enrollment status; e.g. half-time), and must meet the standards of satisfactory progress outlined in the following chart:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Cumulative Credits</th>
<th>Earned Cum. GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2nd</td>
<td>10</td>
<td>1.25</td>
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<tr>
<td>3rd</td>
<td>20</td>
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<tr>
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<td>5th</td>
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<tr>
<td>6th</td>
<td>50</td>
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</tr>
<tr>
<td>7th</td>
<td>60</td>
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</tr>
<tr>
<td>8th</td>
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<td>2.0</td>
</tr>
<tr>
<td>9th</td>
<td>80</td>
<td>2.0</td>
</tr>
<tr>
<td>10th</td>
<td>90</td>
<td>2.0</td>
</tr>
<tr>
<td>11th</td>
<td>100</td>
<td>2.0</td>
</tr>
<tr>
<td>12th</td>
<td>110</td>
<td>2.0</td>
</tr>
</tbody>
</table>

At the end of every semester, a student’s eligibility will be reviewed to determine if at least two-thirds of the attempted credits have been completed successfully. For example a student who has attempted 15 credits will need to have completed at least 10 credits with the requisite GPA to maintain good status. If the student fails to complete the requisite number of credits and/or does not have the required GPA, the student will be placed in Warning Status for the next semester. Failure to complete the number of credits or meet the GPA requirements when in Warning Status will result in loss of Federal Aid for ensuing semester.

Students may appeal their loss of federal financial aid if they have extenuating or mitigating circumstances and can create a successful plan for being on pace with degree completion requirements as outlined above. If the appeal is granted, students will be placed on Federal Financial Aid Probation and be eligible to receive aid for the next semester. A review of eligibility will be completed at the end of the semester. If the appeal is not granted, the student will be placed on Federal Financial Aid Suspension. Eligibility will be reinstated once credits and GPA requirements are met.

Transfer students will note that credits earned at a previous institution will be counted towards the maximum number of credits allowed for funding, not to exceed the 150% of the expected credit requirements.

Students who repeat a course may receive financial aid for the course if they are registered for a sufficient number of credits to maintain pace toward degree completion. Repeat courses will not count towards the attempted credits for any term; therefore students will need to complete two-thirds of credits taken for the first time in order to maintain eligibility. A student may receive federal financial aid once for a repeated course in which they received a passing grade.

**New York State Aid**

**Satisfactory Academic Progress**

To receive assistance from New York State, a student must remain in “Good Academic Standing.” This means that the student must:

1. display satisfactory academic progress toward the completion of his/her program requirements, and
2. demonstrate pursuit of the program in which he/she is enrolled.
The two elements of satisfactory academic progress and program pursuit must be met for each term of study in which an award is received.

Satisfactory Progress
A student must acquire a minimum number of credits at each semester interval and a minimum cumulative grade point average (GPA). Students generally must meet the standards of satisfactory academic progress as outlined on the following charts:

For students first receiving aid in 2007-08, 2008-09, 2009-10 and HEOP

<table>
<thead>
<tr>
<th>Before Being Certified for this Payment of State Aid</th>
<th>A StudentMust Have Accrued at Least this Many Semester Credit Hours</th>
<th>With at Least this Cumulative Grade Point Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2nd</td>
<td>3</td>
<td>1.10</td>
</tr>
<tr>
<td>3rd</td>
<td>9</td>
<td>1.20</td>
</tr>
<tr>
<td>4th</td>
<td>21</td>
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<td>5th</td>
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<td>6th</td>
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<tr>
<td>9th</td>
<td>90</td>
<td>2.00</td>
</tr>
<tr>
<td>10th</td>
<td>105</td>
<td>2.00</td>
</tr>
</tbody>
</table>

For non-remedial students first receiving aid in 2010-11 and thereafter

<table>
<thead>
<tr>
<th>Before Being Certified for this Payment of State Aid</th>
<th>A StudentMust Have Accrued at Least this Many Semester Credit Hours</th>
<th>With at Least this Cumulative Grade Point Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2nd</td>
<td>6</td>
<td>1.50</td>
</tr>
<tr>
<td>3rd</td>
<td>15</td>
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<td>4th</td>
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<td>7th</td>
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<td>8th</td>
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<td>2.00</td>
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<tr>
<td>9th</td>
<td>96</td>
<td>2.00</td>
</tr>
<tr>
<td>10th</td>
<td>111</td>
<td>2.00</td>
</tr>
</tbody>
</table>

The state will accept as a passing or failing grade the grades “A” through “F” and any grade that indicated the student
1. attended the course for the entire semester and
2. completed all the assignments.

The grade of “I” (incomplete) is acceptable only if it automatically changes to a standard passing or failing grade before the completion of the next term of study. The grades of “W” or “AU” do not constitute grades that may be used to meet the requirement of program pursuit.

Repeats
A repeated course in which a student received a passing grade is not eligible for New York state aid.

Waiver Procedures
If a student fails to maintain program pursuit, fails to make satisfactory progress, or fails to meet both of these elements of good standing, the University may grant a waiver which would allow the student to receive New York state financial assistance for the next semester. A maximum of one waiver at the undergraduate level and one waiver at the graduate level may be granted to a student, if the university certifies and maintains documentation that such a waiver is in the best interest of the student.

A waiver will be granted if situations beyond a student’s control prevent the student from maintaining satisfactory academic progress or program pursuit. The waiver will not be automatic since it is intended to accommodate only extraordinary cases. These situations must be documented. Reasons for which waivers may be granted include:

• personal medical problems
• family medical problems
• severe personal problems
• a death in the family
• other circumstances beyond the control of the student

Any student wishing to request a waiver must submit it in writing to the Office of Financial Aid. The request should detail the reasons why special consideration should be given. (A statement simply requesting a waiver is insufficient). Documentation supporting the stated reasons for special consideration must be provided. Written statements from appropriate third parties or agencies where appropriate should be provided. The student is responsible for requesting that all documentation be forwarded to the Office of Financial Aid. Documentation should indicate that the student’s problems have been directly responsible for the inability to meet satisfactory progress and/or program pursuit requirements.

The Office of Financial Aid will forward the waiver request and all supporting documentation to the Vice President for Academic Affairs.
Once the information has been reviewed the student will be informed in writing of the decision.

Award programs affected by this policy include the following NYS aid programs:

- Tuition Assistance Program (TAP)
- Children of Deceased and Disabled Veterans Award (CV)
- Higher Education Opportunity Program (HEOP)
- Vietnam Veterans Tuition Award
- New York State Scholarship for Academic Excellence

Transfer Student Eligibility
Transfer students (and students readmitted after a period of absence from college) will be subject to procedures slightly different from those applied to students in continuing status. For example, when a student transfers from a TAP-eligible program at one institution to another TAP-eligible program at a second institution, the receiving institution must make a determination, based upon an evaluation of the student’s academic and, to the extent possible, financial aid record, that the transfer student is able to benefit from and is admissible to the new program of study. The receiving institution will assign a certain number of transfer credits it is willing to accept from the student’s previous study, and on the basis of this assessment the student will be placed either at the appropriate point on the chart of “satisfactory academic progress” (described above) that corresponds to the number of transfer credits accepted, or at the point which corresponds to the number of payments previously received by the student, whichever is more beneficial to the student.

Method and Frequency of Title IV Financial Aid Disbursements
Federal Pell Grants, Federal Perkins Loans, and FSEOG are credited directly to a student’s account with the Business Office. One-half of a student's total award is credited per semester. Students receiving a Federal Work Study award (FWS) are paid on a biweekly basis for hours worked. Payment is made directly to the student. Federal Direct Loan funds are typically sent by electronic funds transfer (EFT). Generally, one-half of the total loan is sent for each semester, less any origination fees deducted by the lender. The same is usually the case for Federal Direct PLUS Loans. If a check is received for either a Federal Direct or Direct PLUS loan, the Business Office will obtain the appropriate endorsement from the student and/or parent.

Financial Aid Refund Policy
When a student withdraws from the University prior to the end of the semester and has received financial aid other than Federal Work Study, calculations are done to determine if any money needs to be returned to the sponsoring aid programs. Withdrawal procedures can be found in the Academic Policies section of the catalog.

St. Bonaventure University Scholarships and Grants
The student's account will be credited with a prorated scholarship/grant. The percentage used in proration will be the same as the percentage of revised tuition liability, i.e., a student eligible for a tuition refund equivalent to 90 percent of tuition charges has incurred a 10% tuition liability. The student's account will be credited with 10% of the semester scholarship/grant award.

State Scholarships
Refunding proration is done according to specific regulations of the sponsoring state.

Private (Outside) Scholarships
Refunding proration is done according to specific regulations of the sponsoring agency.

Federal Programs (Title IV)
Regulations require each educational institution to have a written policy for the refund and repayment of federal aid received by students who officially withdraw during a term for which payment has been received. These policies are effective only if a student completely terminates enrollment or stops attending classes before completing more than 60 percent of the enrollment period. Federal aid is earned in a prorated manner on a per diem basis based on the academic calendar up to the 60 percent point in the semester. Federal aid is viewed as 100 percent earned after that point in time. A copy of the worksheet used for this calculation can be requested from the Office of Financial Aid.

After the dollar amount to be refunded to the federal programs has been determined, the refund is applied to the accounts in the following sequence: Unsubsidized Federal Direct Loan, Subsidized Federal Direct Loan, Federal Perkins Loan, Federal PLUS Loan, Federal Pell Grant, and Federal Supplemental Educational Opportunity Grant (FSEOG).

Federal Program Repayment Policy
The amount of Title IV aid that a student must repay is determined via the Federal Formula for Return of Title IV funds as specified in Section 484B of the Higher Education Act. This law also specifies the order of the return of the Title IV funds to the programs from which they are awarded which is listed above.

A repayment may be required when cash has been disbursed to a student from financial aid funds in excess of the amount of aid a student earned during the term. The amount of Title IV aid is earned by multiplying the total Title IV aid (excluding Federal Work Study) for which the student qualified by the percentage of time during the term that the student was enrolled. If less aid was paid than earned, the student may receive a late disbursement for the difference. If more aid was disbursed than was earned, the amount of Title IV aid that must be returned is determined by subtracting the amount earned from the amount actually disbursed.

The responsibility for returning unearned aid is allocated between the university and the student according to the portion of disbursed aid that could have been used to cover university charges and the portion that could have been disbursed to the student once the university charges were covered. St. Bonaventure University will distribute the unearned portion of the disbursed aid that could have been used to cover university charges and the portion that could have been disbursed directly to the student once university charges were covered.

St. Bonaventure University will distribute the unearned aid back to the Title IV programs as specified by law. The student will be billed for the amount the student owes to the Title IV programs and any amount due to the university resulting from the return of Title IV funds used to cover university charges.

The requirements for Title IV program funds when you withdraw are separate from the refund policy of the university. The refund policy of the university can be found in the Student Expenses section of the catalog. Therefore, you may still owe funds to the university to cover unpaid institutional charges.
Copies of common refund examples are available in the Office of Financial Aid.
GENERAL INFORMATION

St. Bonaventure University, a Catholic university in the Franciscan tradition, is an independent, coeducational institution offering undergraduate programs through its Schools of Arts and Sciences, Business, Education, Health Professions and Jandoli School of Communication, and various graduate degrees through its School of Graduate Studies including the world-renowned Franciscan Institute.

The St. Bonaventure campus in southwestern New York is spread over 500 acres in a valley surrounded by the Allegheny foothills on Route 417 between Olean and Allegany and about two miles from Exit 24 of the Southern Tier Expressway, I-86. The University is accessible by car, bus and commercial airlines, which land in Buffalo, N.Y., and Erie, Pa. The mailing address is 3261 W. State Road, St. Bonaventure, NY 14778.

History

St. Bonaventure University was founded through the initiative and dedicated efforts of Nicholas Devereux, a large landholder and financier from Utica, N.Y., with the cooperation and support of John Timon, Bishop of Buffalo, and members of the Franciscan Order. Their dream of more than a century and a half ago has flourished, and St. Bonaventure University has expanded greatly during the 154 years of its existence. In 1854 the two promoters persuaded a group of friars from Italy to venture to America and establish a Catholic college and seminary in Western New York. Principal among these Franciscans was Fr. Pamphilus da Magliano, who later became the College's first President. On Oct. 4, 1858, the Feast of St. Francis, the formal dedication of the new school was held on the tract of land donated by Devereux. It was then that the College was named after St. Bonaventure of Bagnoregio, the Patron of Franciscan Studies and Learning. St. Bonaventure College held its first Commencement Exercise in June 1860, graduating a class of 15 students. Since then the University has grown to more than 2,000 students.

The College was provisionally chartered on March 1, 1875, by an Act of the Regents of the State of New York, “For the instruction ... in the learned languages and in the liberal and useful arts and sciences.”

In the 1920s the College developed a full-time graduate program which has continually expanded since that time. Early in the 20th century St. Bonaventure also became home to the School of Franciscan Studies and the Franciscan Institute. The permanent Charter of Incorporation of the College was granted by the State in 1883, and in 1950, after nearly a century of operation, St. Bonaventure was named a University by the Board of Regents.

Mission and Vision

St. Bonaventure is a Catholic university dedicated to educational excellence as informed by our Franciscan and liberal arts traditions. In the words of our patron, we believe that there should be “no knowledge without love,” and thus seek to transform the lives of our students, inspiring in them a lifelong commitment to service and citizenship.

St. Bonaventure embraces students, faculty and staff of all faiths and cultures and strives to bring out the best in every individual through meaningful relationships. As an academic and spiritual community, we endeavor to prepare our students for the challenges they will face in their professional careers and personal lives.

Values Statement

Our Franciscan COMMUNITY affirms the unique dignity of everyone, each person reflecting the goodness of God, and invites all of our sisters and brothers to forge bonds of mutual acceptance and understanding that create a true sense of belonging.

We are a COMMUNITY ...

• Nurturing COMPASSION.
• Seeking WISDOM.
• Building INTEGRITY.

COMPASSION: We are convinced that all of creation is God's gift, an awareness that calls forth a sense of solidarity with everyone and everything. As images of God, we strive to share God's unconditional love, particularly with those on the margins of society — the needy, the ignored, and the excluded.

WISDOM: We are convinced that education must be transformative of the whole person, concerned not only with the intellect, but also with the will, the heart, and the body. Education must be eminently practical, not just about learning concepts and skills, but discerning how to truly live humanly, deeply, and well in the world.

INTEGRITY: We are convinced that each of us must accept responsibility for our actions and that our relationships should be based on respect for the dignity of others, honesty, and transparency, realizing that the values we espouse mean little unless they are embodied in our personal and professional lives.

Statement of Distinction

At St. Bonaventure University, we strive to foster the development of knowledgeable, skilled, compassionate and ethical individuals by mentoring students within vitally engaging learning environments, ever mindful of such Franciscan values as individual dignity, community inclusiveness, and service to others. We will be the premier Franciscan institution of higher learning in North America, and, as such, we will have the resources and endowment befitting our university's mission, age and tradition.

Accreditation

St. Bonaventure University is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA 19104, 215-662-5606. The Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Commission on Recognition of Postsecondary Accreditation. The University is also accredited by the Association to Advance Collegiate Schools of Business, and the National Council for Accreditation of Teacher Education. St. Bonaventure is chartered by the state of New York and the Board of Regents.

Undergraduate and Graduate Academic Structure

Undergraduate Degrees Offered

Baccalaureate degrees and majors offered are:
• Bachelor of Arts: broadcast journalism, criminology, English, environmental studies, health and society, history, individualized, international studies, journalism, modern languages (Spanish), music, philosophy, political science, professional and creative writing,
psychology, sociology, sports media, strategic communication, theater, theology, visual arts, women’s studies

- **Bachelor of Science**: behavioral neuroscience, biochemistry, bioinformatics, biology, chemistry, childhood studies, computer science, cybersecurity, engineering physics, health and society, health science, individualized, mathematics, nursing, physics, psychology, public health, sport studies

- **Bachelor of Science in Education**: adolescence education with disciplinary concentrations, childhood (elementary) education, childhood and early childhood education, inclusive childhood education, physical education

- **Bachelor of Business Administration**: accounting, finance, management, marketing, sport management

For an extensive listing of degrees offered, see the inventory of registered programs at the end of this general information section.

**School of Arts and Sciences**

The objective of the School of Arts and Sciences is to afford a broad education in the cultural and scientific subjects. While each department offers specific training in a particular subject to students desiring to major in that field, the arts curriculum as a whole is designed to acquaint the student with literature, art, language, history and philosophy, which largely form our cultural inheritance. The science curriculum is designed to give a thorough education in the basic principles of the various sciences (for their own sake), as well as preparation for advanced study and research. (See the School of Arts and Sciences section for more information on specific programs.)

**School of Business**

Educating each student to meet the challenges of a dynamic global business environment is our highest priority. Our curriculum will emphasize the development of leadership, management, problem solving and ethical decision making. Guided by our Franciscan heritage, we will create an environment that provides abundant opportunities for interaction among all members of the University community, as well as alumni and business professionals. We strive to bring out the best in every individual, and to prepare our students for the challenges they will face in their professional careers as well as in their personal lives. (See the School of Business section for more information.)

**School of Education**

The School of Education is dedicated to furthering the mission of the University and to incorporating Franciscan culture and values into the preparation of educators for the twenty-first century. It provides a deep, broad and inclusive professional preparation within a strong academic core. The School of Education seeks to prepare educators who can connect their Franciscan culture and academic and professional curricula to learners and learning environments of the future. Operating within a conceptual framework organized around three themes — competence, experience, and social justice — all professional preparation programs foster reflection, inquiry, strong collegial relationships, leadership in the change process and dedication to lifelong learning. (See the School of Education section for more information.)

**School of Health Professions**

The School of Health Professions builds on St. Bonaventure’s robust undergraduate science curriculum and pre-health programs. In addition to the present bachelor’s degree programs in Nursing, Public Health and Health Science, we are exploring the creation of additional clinical and non-clinical degree programs at the graduate and undergraduate level in several of the most desired and needed health fields.

**Jandoli School of Communication**

The Jandoli School of Communication strives to provide students with the necessary professional skills for successful careers in print and broadcast journalism and strategic communication, including public relations and advertising. This is accomplished within the context of strong preparation in the liberal arts with an emphasis on writing and experiential learning. (See School of Communication section for more information.)

**School of Graduate Studies**

The School of Graduate Studies offers an opportunity to qualified students to extend and deepen their knowledge through specialized training in methods of investigation and research. Evening and Saturday courses are offered on the St. Bonaventure campus as well as through the Buffalo Center’s Weekend Graduate Program at Hilbert College in Hamburg, N.Y. Please check the graduate catalog for details.

On the **St. Bonaventure campus**, the University offers:

- Master of Business Administration
- Master of Science in clinical mental health, school counseling, and cybersecurity
- Master of Science in Education in adolescence education, educational leadership, clinical mental health, school counseling, literacy (childhood and adolescent), and inclusive special education
- Advanced certificate of specialization in school counseling and teaching students with exceptionalities

The following programs are offered through the **Buffalo Center**:

- Master of Science in Education in educational leadership
- Certification for school building leader and school district leader

The following programs are offered in an all-online format:

- Master of Arts in integrated marketing communications and strategic leadership
- Master of Science in Education in clinical mental health, school counseling, and cybersecurity
- Master of Business Administration

**Resources and Buildings**

The St. Bonaventure campus is a blend of traditional Florentine and modern brick buildings, including science laboratories, computer facilities, art galleries, a recital hall, theater, band and choral classrooms, art studios, a sports arena, swimming pool, classroom buildings, modern languages and journalism laboratories, a library with a resource center, and residence halls and apartments for men and women. The campus also contains a friary for the community’s Franciscan friars.

Science laboratories include facilities for instruction and research in a variety of fields, including computer science, physics, biology, microbiology, psychology, environmental studies, chemistry and mathematics. Among the facilities are an observatory, biotechnology laboratory, tissue culture laboratory, equipment for research in the growth of microorganisms, plants and an extensive mammal collection. (See De La Roche Hall and Walsh Science Center, page 15)
McGinley-Carney Center for Franciscan Ministry is the campus’ newest building, opened in 2017, houses the offices of University Ministries, the Franciscan Center for Social Concern, and Mt. Irenaeus. It includes an interdenominational prayer tower, kitchen facilities and the Fr. Silas Rooney Great Room, honoring one of the university’s legendary friars.

Technology Services provides technology support to all members of the campus community. Our computing facilities include general use computer labs, academic department computer labs, campus-wide WiFi coverage, the MySBU campus portal and our Moodle learning management system.

Friedsam Memorial Library has built, and continues to build, a strong traditional collection of materials (over 250,000 books, 1,300 periodical subscriptions and 60,000 bound periodical volumes), along with developing access to electronic source. The library seeks not only to support university instruction with appropriate materials and access, but also to foster independent investigation and research by the university community.

The library maintains a reference department to assist patrons in using its collections and developing research strategies. An Ask Us 24/7 service (http://www.questionpoint.org/crs/servlet/org.oclc.admin.BuildForm?&/#38;page=frame&) is available where you can chat online with a qualified librarian who can assist you with many aspects of using the library, and an interlibrary loan service is available to obtain materials from other institutions.

Both reference and interlibrary loan services are available via e-mail or telephone. Many of the library’s electronic resources and services are available on its web page (http://www.sbu.edu/friedsam (http://www.sbu.edu/friedsam/)).

The library also has collections of unique resources that are of national and international importance. In its coverage of the Franciscan movement the Franciscan Institute Library is unmatched in the western hemisphere and can be equaled by only a few European libraries. The Rare Book Collection contains nearly 10,000 items, including late medieval manuscripts and early printed books.

The Regina A. Quick Center for the Arts is the home of the University’s Art Collection, which includes works of the Old Masters, Chinese porcelains, early American and contemporary artists, and art from the Mayan and Indian cultures. Additional facilities include the Rigas Family Theater, music, theater and visual arts instructional spaces and galleries presenting the University Art Collection, national touring artists and student work are also housed in the Center. The F. Donald Kenney Museum and Art Study Wing includes two galleries, a lithograph study room and support spaces. The Regina A. Quick Center for the Arts also houses offices and instructional spaces for the visual and performing arts programs.

The Sandra A. and William L. Richter Center, a recreation facility that opened in fall 2004, houses three basketball courts, a weight room, two racquetball/squash courts, cardio area, jogging/walking track, locker rooms, equipment checkout, climbing wall and multi-purpose aerobics room. The center is 45,000 sq. ft., with a large central atrium and two floors.

Hopkins Hall houses the offices of the president, provost and vice president for academic affairs, admissions, business, financial aid, human resources, institutional research, and purchasing.

Francis Hall will soon be the home to the new School of Health Professions. Located on the east side of campus, Francis Hall provides a unique living experience for students. The hall houses upperclassmen and graduate students in single occupancy rooms.

The Reilly Center is St. Bonaventure’s largest building, providing a sports arena (Bob Lanier Court) seating 5,480 spectators, the Athletic Hall of Fame, a swimming pool and other athletic facilities. The Damietta Center, WSBU radio, lounges, snack bar, Career and Professional Development Center, Post Office, University Bookstore, Higher Education Opportunity Program (HEOP), ROTC offices, classrooms and other offices.

The John J. Murphy Professional Building is home to the Jandoli School of Communication and School of Franciscan Studies. It contains the 400-seat Dresser Auditorium, lecture classrooms, specialty classrooms, and dean and faculty offices. It also includes a broadcast journalism lab and television studio.

The William E. and Ann L. Swan Business Center opened in 2013 and is home to the School of Business. It features a financial services lab with electronic ticker tape, a corporate boardroom, state-of-the-art classrooms, break-out areas, spaces for student collaboration, team building, and faculty research, a dean’s suite, innovative technology uses, and a serious commitment to sustainability.

The Remote Broadcast Facility is the Jandoli School of Communication’s network-level sports production facility. It can be used to broadcast live sports telecasts of A-10 basketball, baseball, soccer, lacrosse etc., plus studio shows about sports and public affairs.

Butler Memorial Hall houses the theater shop, theater faculty offices, the theater voice and movement lab, the adjunct music instructors’ office and studio, and a gym used primarily for intramural athletics and practices.

Plassmann Hall and Annex house the offices of most of the arts faculty of the School of Arts and Sciences, the School of Education and the Student Success Center. It contains classrooms, offices, seminar rooms, a clinic room and a modern language laboratory. First Year Experience, the Higher Education Opportunity Program (HEOP), the Learning Center, Disability Support Services and the office of International and Online Student Support Services are all housed within the Student Success Center.

De La Roche Hall, which received a $3 million upgrade in 2008, houses the science program, which includes modern laboratories for the chemistry, biology, physics, psychology, and mathematics departments. The $13 million William F. Walsh Science Center, a 46,500-square-foot facility, adjoins De La Roche and opened in 2008. It houses state-of-the-art computer science department, laboratory and classroom space, biology labs, organic and general chemistry labs, Natural World labs, a 150-seat indoor amphitheater, and faculty offices integrated with lab space for better student-teacher accessibility.

Hickey Dining Hall offers a wide variety of dining options to students from 7 a.m. to 10 p.m. The Rathskeller, an on-campus club, is in the basement, and Café La Verna, a gourmet, wireless coffeehouse serving Starbucks products, opened in 2007.

Mt. Irenaeus Retreat is located in the Allegheny hills 35 minutes from campus. Named after Fr. Irenaeus Herscher, O.F.M., beloved St. Bonaventure librarian, this Franciscan retreat offers “prayer and peaceful re-creation” to all in the community. More than 228 acres are used for
hiking, cross-country skiing, residence hall programs and weekend retreats.

St. Bonaventure University On-Campus Housing Residency Policy and Requirements

All St. Bonaventure University students (including transfer students) are required to live on campus throughout their freshman, sophomore and junior years except as noted below. The terms freshman, sophomore, junior and senior are defined by credit hour as outlined in the University Catalog. The Residence Hall and Food Service Terms and Conditions are binding for both fall and spring semesters of that academic year. Therefore, a student’s residency requirement for the entire academic year is determined by that student’s status at the beginning of that academic year. As part of the Residence Hall and Food Service Terms and Conditions, undergraduate students living in dormitory style housing (Doyle, Devereux, Robinson, Falconio, Shay, Loughlen) are required to have either a silver, gold or platinum meal plan. Only students with full-time, matriculating status at the beginning of each semester are permitted to live in on-campus residence halls. Should a student fall below full-time status during the semester, he or she will not be required to move out provided they are still enrolled in and attending courses.

Exceptions to this housing residency requirement include:

1. Students commuting from home, when home address is within 50 miles of St. Bonaventure University.
2. Married students or students with dependent children.
3. Students age 23 years or older at the start of the academic year.
4. Students whose Residence Hall and Food Service contract is terminated by the University (see “Termination by the University” in most current Residence Hall and Food Service Terms and Conditions).
5. Students who are restricted from living on campus as a result of a judicial hearing sanction.

Students wishing to request an exception to this policy for extenuating reasons not covered above must complete the Housing Residency Exception Request Form and submit it to the vice president for Student Affairs for consideration. Students to whom the above exceptions do not apply, or who do not receive permission from the vice president, and do not participate in the room selection process, will be assigned a room after room selection, and billed for room and meal plan.

This policy is predicated on research statistics demonstrating that students who live in residence halls tend to perform better academically, acclimate more rapidly to the collegiate environment, become involved in a greater number of learning experiences that complement classroom teachings, and are more satisfied in general with the college experience.

Additional Important Information Regarding On-Campus Accommodations

Student rooms are furnished, and wireless internet access is provided. Students must provide their own blankets, towels and other personal amenities. The University does not provide married student or family student housing.

Occupancy of residence halls is outlined in the student’s Residence Hall and Food Service Terms and Conditions. These terms and conditions apply to the entirety of the academic year, and no deduction is made for absences. A room may be reserved for new students only when their confirmation deposit has been received and accepted. Returning students must make the necessary room deposit by the required date as determined by the Business Office.

Dining Service

Full service in the Hickey Dining Hall will begin with the evening meal preceding the day of registration and will close with the evening meal on Commencement day. The University will not provide service on Thanksgiving or Easter day or during the recess between semesters. The first meal for new students reporting for the fall semester is the evening meal of the day the residence halls become available for occupancy. Full meal plans are required for all residential students; exceptions are made for graduate students and/or students living in the Townhouse Apartments or Garden Apartments. Students may change their meal plan only within the first ten (10) business days of each semester. Meal plan purchases and changes are done exclusively through the Bona Express Office.

Service in the Reilly Center Café, Café LaVerna, and Francis Café is available during the academic year and, to a limited extent, during summers and vacations.

University Residence Facilities

Devereux Hall, one of the most historic buildings on campus, is conveniently located in the middle of the campus. Living in Devereux allows the student the opportunity for individual taste in rooms, as there are identical traditional residence halls located at the center of campus life situated between Doyle Hall and the Reilly Center. These two buildings are the closest residence halls to the outdoor basketball courts, athletic fields and Richter Center. Common areas were renovated in the summer of 2014, which included the addition of card access and camera surveillance. Freshmen are typically housed in Rob/Fal, as well as the First Year Experience office on the first floor of Falconio, and Safety and Security Services on the first floor of Robinson.

Shay/Loughlen Halls are commonly referred to as “Shay/Lo”, and are joined by a large common lounge, renovated and modernized during a massive renovation of the halls in 2006. Shay/Loughlen maintains a well-balanced academic and social atmosphere that lends itself to a well-rounded residential experience. Shay hall offers four-person suites, consisting of two two-person rooms connected by a private bathroom. Loughlen hall typically houses freshmen, and offers traditional two-person rooms with a common bathroom on each floor.

Robinson/Falconio Halls are commonly referred to as “Rob/Fal.” They are, identical traditional residence halls located at the center of campus life situated between Doyle Hall and the Reilly Center. These two buildings are the closest residence halls to the outdoor basketball courts, athletic fields and Richter Center. Common areas were renovated in the summer of 2014, which included the addition of card access and camera surveillance. Freshmen are typically housed in Rob/Fal, as well as the First Year Experience office on the first floor of Falconio, and Safety and Security Services on the first floor of Robinson.

Francis Hall will soon be the home to the new School of Health Professions. Located on the east side of campus, Francis Hall provides a unique living experience for students. The hall houses upperclassmen and graduate students in single occupancy rooms.

Doyle Hall features large rooms equipped with a sink in each room. Doyle also houses the registrar’s office, department of history, Student Wellness Center, the University chapel, the Robert R. Jones Board of Trustees Room, and Teaching and Learning Center. The Center for Student Wellness houses Health Services and Counseling Services.
Health Services employs medical professionals to provide physical health care for SBU students. The Counseling Services section of the Center for Student Wellness offers individual and group counseling sessions. The counselors hold NYS licenses to practice as mental health counselors.

Gardens of Br. Leo, also known as "Gardens," are apartment buildings located along the wooded path close to Francis Hall. Apartments in this complex accommodate six students in double-occupancy rooms with a living room, two bathrooms, a dining room and a fully equipped kitchen. Sophomores, juniors and seniors are eligible to live in the Gardens of Br. Leo.

Village of St. Anthony and Glen of St. Clare also known as “Phase 1,” “Phase 2” and “Phase 3,” are townhouses and apartment buildings located adjacent to both sides of Francis Hall. They offer juniors, seniors and graduate students the opportunity of an independent lifestyle, accommodating either four or six students with single bedrooms. Every apartment and townhouse also include a living room, one-and-a-half bathrooms and a fully equipped kitchen.

### St. Bonaventure University New York State Registered Programs (Undergraduate)

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### Health Science Programs

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HONORS PROGRAM

The Honors Program at St. Bonaventure University brings highly motivated and academically qualified students into novel, stimulating, and productive interactions with faculty members. Students are welcome to participate in as much of the program as they desire, or they may fulfill all the requirements for a degree with honors.

Requirements for Enrollment in the Honors Program

- Incoming students must have a combined SAT score of 1270 (math plus verbal) OR 1270 (New SAT – Math & Evidence Based Reading & Writing) OR an ACT score of 27 and a high school average of 90.
- Enrolled students must maintain cumulative GPAs of 3.25 each semester. Reviews of Honors student GPAs begin after the students have completed their first semesters at St. Bonaventure University and continue after each completed semester thereafter.
- Enrolled students must take at least one Honors-designated course a year to maintain their status as Honors students.
- Transfer students must have a cumulative GPA of 3.25 or higher at the institution they are leaving for St. Bonaventure or meet the same standards as incoming students.
- Transfer students will be granted up to 6 transfer credits for Honors courses passed with a grade of B+ or higher, subject to the approval of the Director of the Honors Program.

Requirements for enrolled students invited to join the Honors Program

- Students with a cumulative GPA of 3.50 after their first semester enrolled at St. Bonaventure University will be invited to join the Honors Program.
- Students accepting the invitation to the Honors Program must meet with the Honors Program Director to explain the program requirements and ensure that prospective Honors students are aware of the policies for enrollment in the Honors Program.
- Students invited to join the Honors Program will be granted Honors Student status and be allowed to register early and to register for Honors courses.
- Students invited to join the Honors Program will be evaluated again following the second semester enrolled at St. Bonaventure University. Any enrolled student invited to join the Honors Program must maintain a cumulative GPA of at least 3.25 after the first full year enrolled to remain an Honors Student. Enrolled students whose GPA falls below 3.25 after the second semester will be removed from any Honors course registered for and will be denied admittance into the Honors Program.

Policies for Suspension and Dismissal from the Honors Program

1. Enrolled students with a cumulative GPA between 3.00 and 3.25 will be placed on probation within the Honors program. If student on probation does not raise his/her cumulative GPA to 3.25 or higher in the following semester, he or she will be dismissed from the Honors Program.
2. Enrolled students with a cumulative GPA below 3.00 will be dismissed from the Honors Program.
3. Students dismissed from the Honors Program will have the opportunity to reapply for admission with the Director of the Honors Program once the student is able to raise his/her cumulative GPA above 3.25. Applications for readmission to the Honors Program will be brought to the Honors Council for deliberation.

Degree with Honors

To earn a “Degree with Honors,” the highest undergraduate degree offered by the university, students must fulfill all of the requirements listed below. Honors courses are populated entirely with students who are in the Honors Program. Courses that are a hybrid of students in the Honors Program and those not in the Honors Program can count in the Honors Experience.

- **Five Honors Courses:**
  - No more than TWO should be from the First-year Honors Courses category (the Gen Ed Curriculum (p. 161) requirement fulfilled by the course is in parentheses)
  - **ENG-104. Honors: Writing II** (one of the Required Specific Courses)
  - **PHIL-105. Honors: Introduction to Ethics** (one of the Required Specific Courses)
  - **SOC-111. Honors: Intro to Sociology** (the Social Sciences Distribution)
  - **THFS-104. Honors: The Way of Francis and Clare** (one of the Required Specific Courses)

- At least THREE should be Advanced Honors Courses: (the Gen Ed Curriculum (p. 161) requirement fulfilled by the course is in parentheses)
  - **EDUC-214. Honors: Human Development and Learning** (the Social Sciences Distribution)
  - **THTR-413. Honors: Shakespeare in Performance** (the Literature and the Visual and Performing Arts Distribution)
  - **HON-299. Special Topics** (These courses vary by semester.)

- **HON 300: Honors Experience.** This zero-credit requirement can be fulfilled by an additional Honors course; an Honors addition to a regular course; or another credit-bearing experience such as research, independent study, study abroad, or internship as long as it is completed in addition to requirements for a student’s major. This experience must be approved by the Honors Director.

- **Honors Project (HON-498/HON-499)** This is the culmination of the Honors Program curriculum — a two-semester, three-credit research or creative endeavor designed by the student to be of sufficient scope to merit recognition as an Honors Project.

Five Honors Courses:

- ENG-104. Honors: Writing II (one of the Required Specific Courses)
- PHIL-105. Honors: Introduction to Ethics (one of the Required Specific Courses)
- SOC-111. Honors: Intro to Sociology (the Social Sciences Distribution)
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INTERNATIONAL STUDENT SERVICES

Student Success Center, First Floor, Plassmann Hall • (716) 375-4009

International Student Services & Study Abroad

The International Student Services Office provides support for international students from admission through graduation. This includes providing students with assistance obtaining F-1 visas, maintaining approved status per USCIS regulations, and seeking authorization for work experiences in their field of study. International Student Services also provides one-on-one support for their academic and non-academic needs to help them assimilate and achieve success at St. Bonaventure.

Guidance is also offered for students looking to study abroad. The office helps students find a program and assists with applications course approval, and departure orientation.
The Jandoli School of Communication at St. Bonaventure University is one of just 19 private school programs accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) and will continue to be nationally recognized because of its ability to:

- provide a highly personalized academic experience to our students in journalism, strategic communication, integrated marketing communications and leadership.
- attract faculty members who combine academic acumen and professional experience.
- ensure a curriculum that integrates ethics rooted in the Franciscan tradition while providing preparation for professional careers and graduate study.
- foresee the changing needs of students and deliberately develop classes and the use of technology consistent with those needs.

- Broadcast Journalism, BA (p. 188)
- Communication, Minor (p. 190)
- Journalism, BA (p. 191)
- Sports Media, BA (p. 192)
- Strategic Communication, BA (p. 194)

**Communications (COM)**

**COM-102 EFFECTIVE SPEAKING & PRESENTATIONS (3 Credits)**
Students will learn strategies for preparing and delivering effective presentations and speeches. Students will demonstrate increased confidence in speaking publicly and how to develop informative and engaging presentations, using a variety of approaches and media.

**Journalism & Mass Communication (JMC)**

**JMC-ELEC JMC ELECTIVE (4 Credits)**

**JMC-101 COMMUNICATION TODAY (3 Credits)**
An overview of the rapidly changing fields of journalism and strategic communication, their history and their relationship to society. Areas covered include newspapers, magazines, broadcasting, public relations, advertising and how those areas and others are impacted by the move to digital media. The beginning course for all Journalism/Mass Communication majors and Strategic Communication and Digital Media majors and open as an elective to all other students.

**JMC-110 PROFESSIONAL WRITING I: STYLE (3 Credits)**
"A writer is a person for whom writing is more difficult than it is for other people," said Thomas Mann. That's because a writer appreciates just how important the act of writing is. In JMC 110, you will learn to think like a writer. Why does writing matter? What does that really mean? You will look at the relationship between art and craft, examine the importance of audience, and begin a conscious exploration of your own writing process. You will also see why mechanics play a key role in articulating your ideas clearly.

**JMC-111 PROFESSIONAL WRITING II:CRAFT (3 Credits)**

**Prerequisite(s):** TAKE JMC-110
JMC-140 THE DIGITAL WORLD (1 Credit)
A fundamental examination of the skills needed to succeed in the world of communications technology, from shooting and editing video using large camcorders or smart phones, the principles of audio and lighting, writing for all media, and the use of Internet-based resources for the latest Communications.

JMC-201 REPORTER’S NARRATIVE: STYLE (3 Credits)
The basic course in principles and practices of writing and reporting for print and digital news platforms. Stresses leads, story organization, accuracy, objectivity and developing a news sense.
Prerequisite(s): Take JMC-111

JMC-202 REPORTER’S NARRATIVE: CRAFT (3 Credits)
Writing and reporting in-depth for all news platforms. Covers investigative research and interpretive journalism. Assignments stress interviewing and investigative techniques.
Prerequisite(s): TAKE JMC-201

JMC-205 MEDIA EFFECTS (3 Credits)
This course will help students understand media messages and their social, cultural, interpersonal, Psychological and political effects.
Prerequisite(s): TAKE JMC-101

JMC-241 INTRODUCTION TO RADIO (3 Credits)
Intro to Radio will look at the operation of a typical radio station, from programming, sales, and promotions to the technology that makes it all happen. The course will also look at the history of radio with a special focus on current trends in the business, such as Internet radio, ownership consolidation, syndication, satellite programming, and regulatory changes.

JMC-245 VIDEO PRODUCTION (3 Credits)
Fundamentals of using visuals to tell news and feature stories. Concentrations will be on learning how to sequence a story visually with still pictures, then with field cameras and videotape. In addition, students will learn how to edit video shot in the field into finished stories.
Restrictions: RG.SC.JMC

JMC-251 INTRO TO GRAPHIC DESIGN (3 Credits)
Students will be introduced to techniques and processes of creating artwork and graphic design on the computer. Students will get an overview of electronic image manipulation, illustration, and page layout and design.

JMC-261 PHOTOJOURNALISM I (3 Credits)
A basic course emphasizing photography from the journalistic perspective. Fundamentals of camera operation, exposure, lighting and composition. Introduction to Photoshop and the digital imaging process.

JMC-262 PHOTOJOURNALISM II (3 Credits)
This course builds upon the skills learned in JMC-261. Principles and practices of journalistic photography, news, sports and feature photography. Picture story and photo essay. Combining words and pictures. Students are encouraged to shoot for on-and-off campus publications.
Prerequisite(s): TAKE JMC-261
Restrictions: RG.105

JMC-263 SPORTS PHOTOJOURNALISM (3 Credits)
Advanced photography course emphasizing sports journalistic perspective. Access to Division One athletics and athletes on the St Bonaventure campus. Covering everything from studio season promo shoots, behind the scenes, peak action, and arena lighting and access. Adobe Lightroom, Photoshop and Photo Mechanic skills will be used to meet all deadlines.

JMC-300 MEDIA LAW AND ETHICS (3 Credits)
The intersection of the law and communications – both the traditional media and legal areas relating to advertising. Major decisions of the U.S. Supreme Court and other courts relating to issues including the Internet, prior restraint, privacy, libel, copyright and broadcasting are considered. Ethical issues involved in the communications fields are also discussed.

JMC-301 ADV. EDITING (3 Credits)
Centers on the practical experience of running a copy desk and producing professional-quality newspaper pages. Refinement and speed is added to existing skills. The course also covers picture editing, typography, design and those computer skills required to oversee production of pages and sections. Students aim for the finished product and learning is by doing.
Prerequisite(s): JMC-202. 3 credits.

JMC-305 COMPUTER-ASSISTED REPORTING (3 Credits)
Searching, finding, writing. Traditional and online methods that underpin scholarships, journalism and related areas: questionnaires, content analysis, literature reviews, Web searches, spreadsheets, databases, listserves, newsgroups and so on. Legal and ethical issues examined. Stress on writing practice.
Prerequisite(s): TAKE JMC-201

JMC-310 FEATURE WRITING (3 Credits)
The writing of newspaper features and magazine articles. A course objective is to write for publication.
Prerequisite(s): TAKE JMC-202

JMC-312 SPORTS WRITING (3 Credits)
The writing and reporting of sports and athletics for all mass media in both the educational and commercial sectors. Emphasis is on writing play-by-play and human interest features, as well as in-depth reporting. An analysis of the principles and practices of sports information is emphasized.
Corequisite(s): TAKE JMC-202

JMC-315 PERSUASIVE WRITING/RHETORIC (3 Credits)
An upper-level writing course for students interested in public relations. Concentration on the finer points of word-smithing in the context of a variety of public relations functions such as promotional copywriting, speechwriting, media relations and quote-crafting. A scrutiny of word choice, phrasing and organization to create maximum deliberate effect. Includes an ethical component to understand how rhetorical choices can lead to intentional and unintentional consequences.
Prerequisite(s): TAKE JMC-202

JMC-318 CREATIVE NONFICTION (3 Credits)
True stories told well—that's the premise behind creative nonfiction, a genre that spans a broad spectrum from literary journalism to memoir. Springing from a long tradition of writing that emphasizes verisimilitude, creative nonfiction employs the literary conventions of fiction and poetry to explore the truth in ways beyond the mere transmission of facts and information. Students will read examples of creative nonfiction to get a sense of the genre’s possibilities while also writing creative nonfiction projects of their own.
Restrictions: RG.24+

JMC-319 WRITING SPACES AND PLACES (3 Credits)
In works of creative non-fiction, place is often background, context, and backdrop for the action. Through place, writers explore the world around them literally and metaphorically, creating profound connections between themselves and the spaces they occupy—as well as connections between readers and those spaces. While looking at effective examples of writers who write about space and place, students will the opportunity to explore the world around them through writing of their own.
JMC-322 SPORTS COMMUNICATION (3 Credits)
(Majors Only) Examines the techniques and strategies used in the communication/public relations field for college and professional sports and how they shape the reporting of sports news. Course will cover writing, design, and layout for press releases, publications and Web sites. Includes analysis of sports public relations as a career field.

JMC-325 MEDIA & ENVIRONMENTAL AFFAIRS (3 Credits)
Media in environmental affairs will look at the way media have been used in environmental public relations campaigns and in environmental advocacy. The course will also examine how research is conducted, publics are decided, and campaigns are developed and evaluated. This class will also emphasize case studies of environmental campaigns. New technologies, worldwide ecotourism, and current issues will be discussed.

JMC-340 BROADCAST REPORTING (3 Credits)
Fundamentals of broadcast news and sports writing and reporting. Areas covered will include learning how to write in broadcast style, writing into and out of sounds bites, selection of bites, use of natural sound throughout stories, writing to visuals, standups and learning how to sounds professional and credible on the air.
Prerequisite(s): TAKE JMC-245

JMC-341 SPORTS TV PRODUCTION I (3 Credits)
This course will help students develop the skills involved in the production of live sports telecasts, using the university's broadcast truck. This course will allow students to specifically learn to work on-air, as well as produce and direct game telecasts, work as video cameramen, audio operators, technical directors, and graphics operators/ producers. Because students will actually produce content for air, class times and dates in the later portion of the semester may be changed to fit the events being covered. Students are apprised that they will need to plan for this when a schedule of events that can be televised is available.

JMC-342 SPORTS TV PRODUCTION II (3 Credits)
This course will help students develop the skills telecasts, using the university's broadcast truck. This course will allow students to specifically learn to work on-air, as well as produce and direct game telecasts, work as video cameramen, audio operators, technical directors, and graphics operators/producers. Because students will actually produce content for air, class times and dates in the later portion of the semester may be changed to fit the events being covered. Students are apprised that they will need to plan for this when a schedule of events that can be televised is available. This is a continuation of JMC 341.
Prerequisite(s): JMC-341

JMC-343 FIELD PRODUCTION (3 Credits)
Students will learn how to coordinate productions outside of the studio with proper camera set-up, lighting and audio. We will look at the proper way to access a location, cut off background sound, color a camera properly, add ambient light and avoid disturbances. Students will also learn the methods a broadcast signal can be transmitted back to the control room for playback on the air.
Prerequisite(s): JMC-245

JMC-344 STUDIO PRODUCTION (3 Credits)
Students will learn to setup and properly shoot in a studio setting with proper lighting, a crisp image and clear audio. There will be a high focus on communication from the director, producer, floor manager, camera operator and editor. Each step of the way plays a significant role in a studio production. Students will also explore the Chroma Key and how this can enhance a production, an interview, a newscast or a sporting event.
Prerequisite(s): JMC-245

JMC-345 ON-AIR ANNOUNCING (3 Credits)
This course offers instruction for improving on-air delivery for radio and television announcers.

JMC-348 MOBILE JOURNALISM (3 Credits)
Producing ethical, engaging, immediate and informative content specifically for digital and social media. This course will prepare students to produce news from the field for digital audiences. Students will share news in real-time on social media and digital platforms.
Prerequisite(s): Take JMC-340

JMC-349 PRODUCING BROADCAST NEWS (3 Credits)
Producing an informative newscast is more than stacking a rundown. Students will learn all of the processes involved in creating a well-rounded show based on story count, timing, use of graphics, live shots, live reports, great video, effective sound and much more.
Prerequisite(s): Take JMC-340

JMC-390 SEMIOTICS: SIGNS & SYMBOLS (3 Credits)
Semiotics is the study of signs. A sign is defined as anything that can stand for or represent something - therefore it can be a word, a symbol, a picture, a sound, a gesture, body language etc. Semiotics is therefore the study of making meaning (both ‘encoding’ and ‘decoding’) in its widest possible sense. Semiotics is fundamental to the process of communication and the production of meaning. In this course we will focus on the work of semioticians in the areas of advertising, photography, film, television, myth and sub-culture, and consider how semiotic concepts and methods can be used to analyze a variety of cultural products, from fashion to television news to advertising to other forms of communication.
Prerequisite(s): Take JMC-101

JMC-399 COMMUNICATIONS RESEARCH METH (3 Credits)
This course provides an overview of mass communications research methods, including survey research, laboratory and field experiments, and content analysis.
Prerequisite(s): JMC-101

JMC-400 CASE STUDIES IN MEDIA ETHICS (3 Credits)
The course introduces students to ethical dilemmas faced by practitioners in the fields of journalism and mass communication. It will provide them with a basis for thought processes and analysis critical to finding solutions. Readings and case studies will be complemented by guest speakers who have been confronted with ethical questions.
Restrictions: RG.JMIN

JMC-401 SP.STUDIES IN JOUR/MASS COMM (1-4 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.
Restrictions: RGC.105

JMC-401C Sp Top: Intro to Filmmaking (3 Credits)

JMC-401D SP.STUDIES IN J/MC: EVENTS MANAGEMENT (3 Credits)

JMC-401G SP.STUDIES: DIGITAL MEDIA (3 Credits)
Prerequisite(s): TAKE JMC-102

JMC-401I SP TOP: IN THE GALLERY (3 Credits)

JMC-401L SP TOP: IN THE GALLERY (3 Credits)

JMC-401L SP TOP: IN THE GALLERY (3 Credits)

JMC-401C Sp Top: Intro to Filmmaking (3 Credits)

JMC-401C Sp Top: Intro to Filmmaking (3 Credits)
JMC-401K SP TOP: NEWS PRODUCING (3 Credits)
JMC-401L SP TOPIC: ADVANCED FILMMAKING (3 Credits)
Prerequisite(s): TAKE JMC-401C

JMC-401M Sp Top: Society & Digital Life (3 Credits)
JMC-401N Sp Top: Digital World (3 Credits)
JMC-401O Sp Top: Copywriting (3 Credits)

JMC-401P SP ST: NEWS 21 VOTING RIGHTS (1-4 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401Q SP TOP: THE JOURNALISTS’ WORKSHOP (6 Credits)
JMC-401R SP TOP: ADVANCED CREATIVE NON-FICTION (3 Credits)
JMC-401S SP TOP: BUILDING A BRAND AS A BLOGGER (3 Credits)

JMC-401T SP TOP: INTRO TO GRAPHIC DESIGN (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401U SP TOP: TV NEWS GRAPHIC CREATION (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401V Sp Top: Media Design (1 Credit)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401W SP TOP: DOCUMENTARY (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401X SP ST: NEWS 21 (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401Y SP TOP: PHOTOGRAPHIC DESIGN (3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-401Z SP TOP: SPORTS MEDIA PRODUCTION (1-3 Credits)
This course gives students the opportunity for in-depth study of JMC-related issues and topics. Students may arrange for planned independent study in journalism and mass communication under the guidance of a faculty adviser. School permission is required.

JMC-411 WRITING FOR ADVOCACY (3 Credits)
The intent is to familiarize students with the techniques of fact-finding, interviewing and writing necessary to produce editorials, columns and reviews for the press.
Restrictions: RG.41+

JMC-412 SPORTS COMMENTARY & ANALYSIS (3 Credits)
The course familiarizes students with the technique of fact-finding, interviewing and writing necessary to produce credible commentaries and analyses in the field of sports for various media. Online writing, including blogging, will be stressed. Techniques for promotion of students’ work will be explored. Writing weekly is stressed. Publication is expected through students’ blogs.
Prerequisite(s): Take JMC-312

JMC-413 WRITERS ON WRITING (3 Credits)
‘[M]any of us...care about the language, in our and craft of telling stories on paper,’ says Stephen King in the introduction to his book On Writing. By writing about writing, writers like King offer insights into their creative processes that can give other writers insights into their own creative processes. Such works invite consideration of the question, What does it mean, really, to be a writer?
Restrictions: RGC.105

JMC-414 JOURNALISTS’ WORKSHOP I (3 Credits)
A hands-on community news reporting course that incorporates all reporting, writing, video and editing instruction taken by the time a student reaches junior class status. Class members will staff an online news site covering communities surrounding the university.
Prerequisite(s): TAKE JMC-202

JMC-415 JOURNALISTS’ WORKSHOP II (3 Credits)
A hands-on community news reporting course that incorporates all reporting, writing, video and editing instruction taken by the time a student reaches junior class status. Class members will staff an online news site covering communities surrounding the university.
Prerequisite(s): Take JMC-414

JMC-418 CREATIVE NONFICTION II (3 Credits)
Building on the work students have done in Creative Nonfiction I, students will look to further develop their ‘truth-telling’ skills. This course will focus on longer-form writing with a focus on memoir. Students will read examples of creative nonfiction to get a sense of the genre’s possibilities while also writing creative nonfiction projects of their own.
Prerequisite(s): Take JMC-318

JMC-440 SEM. BROADCAST JOURNALISM I (3 Credits)
Advanced course in producing, writing, field reporting, anchoring and the production of a television newscast. Students will incorporate what they have learned in all broadcast journalism courses within the sequence. The vehicle used for students learning this advanced work will be in the form of a weekly TV newscast telecast on SBU-TV Channel 9.
Prerequisite(s): JMC-340

JMC-441 SEM. IN BROADCAST JOURNALISM II (3 Credits)
Advanced course in producing, writing, field reporting, anchoring and the production of a television newscast. Students will incorporate what they have learned in all broadcast journalism courses within the sequence. The vehicle used for students learning this advanced work will be in the form of a weekly TV newscast telecast on SBU-TV, Channel 9. This course continues the work of JMC 440.
Prerequisite(s): JMC-340

JMC-442 POST PRODUCTION (3 Credits)
Students will take a deeper dive into video editing software. We will enhance their capabilities of building a finished product through the addition of several creative features. Students will learn to properly color grading video, effect edit, add in and splice music, effectively key vide and use graphics/animations in their work.
Prerequisite(s): Take JMC-245
JMC-443 TOPICS IN ADVANCED PRODUCTION (3 Credits)
An advanced course in video production that will build on lower-level production courses and offer the ability to specialize in specific production techniques. Topics will vary.
Prerequisite(s): Take JMC-245

JMC-445 DOCUMENTARY (3 Credits)
Students will demonstrate their ability to bring together multimedia journalist skills by producing a multimedia documentary project. Students must show a firm understanding of writing, reporting, visual storytelling and research to plan and produce, in small teams, a profound piece of longform video and digital journalism.
Prerequisite(s): Take JMC-202 & JMC-245

JMC-470 INTERNET AND THE LAW (3 Credits)
This class will look at the legal rules that apply to life online, including some background on how the Internet is governed and an in-depth look at several issues. The course is open to all majors.

JMC-471 BLOGGING FOR MEDIA PROFESSIONALS (3 Credits)
The course is designed to further professional development as a credible reporter, commentator, or analyst in online forums on topics or issues of creative or professional interest. Promotion of posts, ethical practice, inclusion of digital video and audio in posts will be considered. The roles and responsibilities of the blogger as publisher will be discussed. Majors only.
Prerequisite(s): Take JMC-202
Restrictions: RG.SC.JMC

JMC-480 JOURNALISM AS LITERATURE (3 Credits)
An exploration of the more artistic and creative aspect of nonfiction writing, mainly through an examination of newspaper and magazine reporting that has endured as literature in America. In addition, the techniques of masters of fiction who also excelled in nonfiction will be studied.

JMC-482 WOMEN, MINORITIES & MEDIA (3 Credits)
The course has two main themes: the history of women and minority journalists working in the U.S media from the colonial era to the present day and the portrayals by the media of these collective groups often left outside the mainstream. Films, guest speakers and primary source materials supplement the overview textbooks.

JMC-483 MEDIA & DEMOCRACY (3 Credits)
This course uses a seminar format to explore the external factors that impact the content and quality of news and the media’s relationship with a healthy democracy. It examines conflicts between the media’s responsibility to keep citizens informed and serve as a watchdog over powerful interests with news organizations’ roles as profit-making businesses. The growth of the Internet and social networks and their impact on journalistic form and content also are explored.
Restrictions: RG.41+

JMC-484 J/MC IN THE CIVIL WAR (3 Credits)
A study of how journalists covered the events leading up to the war, how they covered the war itself and how North and South fought battles not only on the battlefield but also in the headlines. An examination of President Lincoln as reporters saw him and a study of his public relations battle for public opinion. Included will be a study of individuals who helped shape American journalism, such as Editor James Gordon Bennett and photographer Matthew Brady, and how the technology of telegraphs and steam engines changed the way journalists did their jobs.
Prerequisite: Juniors and seniors only. 3 credits. Offered every other fall
Restrictions: RGC.105

JMC-485 CIVIL RIGHTS MOVEMENT AND THE MEDIA (3 Credits)
It has been said that without the media, there would have been no Civil Rights Movement. This course will explore that theory and examine the powerful role the media played in shaping the events of the Civil Rights Movement. Media -- both black and mainstream -- coverage of key civil rights cases, such as the murder of Emmett Louis Till, will be analyzed, as well as the southern journalists who defended blacks in the 1950s and 1960s. The course will also cover assassination of Medgar Evers in 1963, the Freedom Rides of 1961, and the often untold story of how women and children helped shape the movement. This course will NOT be about Martin Luther King Jr. and Rosa Parks. Though they are seen as icons of the Civil Rights Movement, the movement was much more than these two people. 3 credits. Offered every other fall

JMC-486 THE COMMUNICATIONS ENTREPRENEUR (3 Credits)
The course is designed to give basic familiarity with the multiple aspects of being an entrepreneur—to teach you how to utilize, efficiently and effectively, the services of those professionals to your own business advantage. All majors.

JMC-498 INTERNSHIP (3 Credits)
A practical on-the-job experience in which students are employed as interns by media organizations in an environment that enables them to supplement their formal and theoretical education in journalism mass communications. Internships are individually arranged and must be approved in advance by the JMC internship coordinator. Internships may be taken during the school year or during the summer months. JMC majors are required to complete 400 hours of internship in one or more organizations. Students are evaluated by the organization for which they worked, the completion of a written, descriptive journal, critique and evaluation of the internship(s), effective use of Career Services for completion of resume and cover letter and demonstrated awareness of portfolio content and presentation. Prerequisites: Off campus internships are available to JMC majors or JMC minors who successfully have completed their freshman year. On campus internships may be taken any time during the freshman, sophomore, junior or senior years. Internships are graded on the pass-fail system.

JMC-499 COMPREHENSIVE EXPERIENCE (2 Credits)
Students in the Journalism Program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select a position and ‘apply’ for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric. Students will either pass or fail. Students who fail will have until the end of the spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours be completed.
Restrictions: RG.74+
JMC-499A COMPREHENSIVE EXPERIENCE (0 Credits)
Students in the Journalism Program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select a position and 'apply' for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric. Students will either pass or fail. Students who fail will have until the end of the spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours be completed.
Prerequisite(s): Take JMC-410(1632)

Strategic Communication (SC)

SC-210 SOCIAL MEDIA IN SOCIETY/BUSINESS (3 Credits)
This course is designed to introduce students to developments in social media that are transforming the way we live and communicate. The class objectives are to provide students with an understanding of how those social tools relate to the practice of strategic communications including marketing, advertising, public relations, and nonprofits, as well as the impact of the social media such as wikis, Twitter, YouTube, personal blogs, Facebook and other relevant tools. Students will participate in virtual community discourse, create content and interact with other professionals in the field and reflect critically on the experience. New applications and social networks will come and go. However, this course will help foster the skill of applying the core principles and practices of strategic communications to social media in productive, creative and intelligent ways. It will also encourage students to be flexible, open to new communication channels and willing to experiment.
Prerequisite(s): Take JMC-101

SC-220 DIGITAL CONTENT & ENVIRONMENT (3 Credits)
As the field of communication evolves, so too does the need to write well across platforms. This course explores various kinds of content development, social media engagement and writing touching on the fields of social media, web-based publications, public relations, and business communication.
Prerequisite(s): Take JMC-111
Restrictions: RG.45+

SC-301 STRATEGIC WRITING & PROFESSIONAL COMM (3 Credits)
This business writing course helps develop business writing and strategic communication skills by teaching and practicing a wide variety of writing initiatives. Students will also create and deliver professional quality oral presentations.
Prerequisite(s): Take ENG-101

SC-302 GLOBAL MARKETING & COMMUNICATION (3 Credits)
This course trains students to build successful global business relationships by studying other cultures and proper business training to understand the intricate processes of accomplishing business and strategic communications in a global environment. Set in the context of intercultural business communications, the focus will be on understanding the role of culture & language, cultural rules for establishing relationships, creating and organizing resonate messages, import and export laws, comparative management and communication styles, business protocol, etiquette and Franciscan business ethics, rooted in the tradition of Luca Paccioli.

SC-303 DIGITAL MARKETING (3 Credits)
This course underscores the importance that digital channels play in marketers’ media options while building a proficiency in new media channels and digital marketing. As new developments in the media landscape continue to impact marketers and communication specialists, the multi-channel work of new media presents companies with enormous opportunities and considerable challenges. Students will be able to understand new media and digital marketing options, including these opportunities and challenges, so they can harness the power of ‘Digi-Marketing’ to grow a business in a strategic communications environment.

SC-304 SOCIAL MEDIA STRATEGY & ENGAGEMENT (3 Credits)
Social media continues to re-write the ways marketing communicators and businesses connect with customers. Social media today is the front door for any business; globally, consumers interact with brands and each other first on social media platforms, before visiting a company’s website, an online merchant, or a retail store. Business-to-consumer marketers must now create engaging digital interactions that acknowledge and respect their customers’ voices and needs – or risk losing customers to more agile social media marketers. This course is designed to help you understand how a palette of digital interactions and resources – including content marketing, public relations, online advertising, and other marketing techniques – will equip you to build social media marketing strategies that captivate online customers. The course will also help you understand relevant industry structures, tools, and support resources that enable you to effectively participate in, and lead, a social media marketing process. Successful completion of the course will give you the insights, knowledge and practical skills to develop marketing strategies that leverage opportunities inherent in social media and consumer-to-consumer social interactions for achieving business goals. While social media has re-shaped how marketers share information across consumers and brands, all social media share three traits: they are always digital, they are always participatory, and they are always shareable. Note: this course is not a survey of online social media platforms that you know from using Facebook, twitter, Instagram, Snapchat, TikTok, etc. Such topics are covered in SC 210. These platforms are important, but we will go beyond these platforms to broaden students’ perspectives and train you to approach Social Media Marketing from a communications strategist’s viewpoint, rather than someone who tweets. To do this, we will look at audiences’ social interactions, mechanisms (dashboard apps, analytic resources, etc.), various social media channels, and strategies and tools that you can use to market successfully on these platforms and track your programs’ effectiveness.

SC-305 MEASUREMENT:SEO/SEM/ANALYTICS (3 Credits)
With ever-evolving communication technologies and communication tools, knowledge of SEO, SEM and analytics is increasingly important for communication practitioners. This course includes the basics of each with emphasis on implementation and evaluation.

SC-320 PRINC & PRACT OF PUB RELATIONS (3 Credits)
An introductory public relations course that examines the research assessments of the organization public relations environment, establishing goals and objectives, selecting appropriate courses of communication action, implementing those communication programs and evaluating performance. The goal is to familiarize students with the background and content of public relations management, helping them to understand the nature of managerial and ethical responsibilities of public relations practitioners.
SC-330 THE ADVERTISING CAMPAIGN (3 Credits)
The class will function as a full-service advertising agency in workshop format, encompassing an overview of advertising as the creative message in print, radio and television. Students will concentrate on the development of an advertising campaign for a particular client, readily demonstrating a strong command of media planning and research, layout, design, copywriting and conceptual thinking.

SC-340 COPYWRITING: FINDING YOUR VOICE (3 Credits)
The focus of this class is the creative process through which advertising comes into being. By going through the conceptual, writing, visualization and executional steps, the student will gain an understanding of the way the creative process works: the strategic thinking, the drawing on reservoirs of knowledge from other liberal arts courses, the conceptualizing, the trial-and-error, the intense executional discipline, the reworking, polishing and refinement, and the final presentation of one's finished work, in printed form, to either one's creative director or your client.

SC-341 MULTIMEDIA COPYWRITING (3 Credits)
This course will teach you to write lean digital copy that fuels a content marketing strategy, and engages your audience in social media, infographics, website content, and online video. Our goal is to engage audiences - consumers, employees, donors and more - and to compel them to connect with your organization and its message beyond 'likes.' You will create messages that shape a brand story they'll remember.

SC-350 SPORTS STRATEGIC COMMUNICATION (3 Credits)
This course examines the world of professional and amateur athletics from the tangent of the strategic communication problems inherent in each of the major sports. It aims to provide a historical perspective on the commercialization of college and amateur athletics, as well as a critical look at professional sports in the western world and North America.

SC-355 SPORTS MEDIA RELATIONS (3 Credits)
This course shows how and when the sports industry needs PR experts. It examines how public relations issues arise in the sports business and how PR approaches and thinking may be used to solve them by exploring the connection between strategy and communication as they apply to sports and PR. The course teaches the strategic and critical thinking essential for PR work and explores other various skills necessary in sport communications, including specialized areas of the field.

SC-401 SPECIAL TOPICS IN STRAT COMM/DIG MEDIA (1-3 Credits)
The course gives students the opportunity for in-depth study of Strategic Communication and Digital Media-related issues and topics. Students may also arrange for planned independent study in Strategic Communication and Digital Media under the guidance of a faculty adviser. School permission required.

SC-401A SP TOP. COPYWRITING (3 Credits)
The course gives students the opportunity for in-depth study of Strategic Communication and Digital Media-related issues and topics. Students may also arrange for planned independent study in Strategic Communication and Digital Media under the guidance of a faculty adviser. School permission required.

SC-420 PUBLIC RELATIONS CAMPAIGNS (3 Credits)
This upper-level public relations class examines various case studies of public relations campaign strategies. The general intent is to place the student in a managerial, decision-making role in which the primary requirement is to think in planning and program-execution terms. Further, the student will be introduced to the formal rules of strategy selection, once goals have been specified, by appeals to the literature base covering the subject of decision theory and management theory.

SC-422 INTERNAL ORGANZATNL RELATIONS (3 Credits)
This course will familiarize students with organizational relations and communication and to allow them to put what is learned into practice. Students will learn the various and numerous publics and audiences in an organization and how to interact and deal with each. Different organizations and different industries will be discussed. Students will have an opportunity to discuss their own experiences as well as examine how to put teachings into practice.

Prerequisite(s): Take JMC-320

SC-425 COMMUNICATION IN CONFLICT (3 Credits)
Communication in conflict will look at a history of conflict from organized labor to regional and world conflicts with a focus on crisis communication and planning. This class will also emphasize diversity in culture and other factors as an antecedent to conflict. New technologies, globalization, and current issues and crises will be discussed.

Prerequisite(s): Take JMC-111

SC-426 HEALTH COMMUNICATION (3 Credits)
Health communication will focus on stakeholders and publics in health care, the differences in communication in a health care setting, and the limitations and challenges with health communication. This class will also look at new technologies and current issues in health and sectors as well as worldwide public health concerns and trends as they relate to mass communication.

Prerequisite(s): Take JMC-111

SC-430 AAF CASE STUDY (3 Credits)
This course serves as the capstone advertising class, providing students with the opportunity to design a strategic advertising and media campaign for a corporate sponsor. Students present the finished campaign to various industry executive at the American Advertising Federation's National College Competition in the spring semester. This campaign project is recognized nationally as the 'College World Series of Advertising.'

SC-450 STORYTELLING WITH DATA (3 Credits)
Analytics, big data analysis and geographic information systems (GIS) have transformed the way the strategic communicators work. Growing dependence on visual displays of data to ease understanding of traditional communication concepts is the norm. Students will learn to present data and tell a story using numbers and associated graphics. Students will learn to use data in developing strategic communication campaigns both internal and external.

Prerequisite(s): Take JMC-399

SC-497 Agency Experience: Synapse I (3 Credits)
Synapse Matters offers students the opportunity to act as associates of a marketing communications consultancy in a business setting on campus. Students will learn valuable leadership, customer service and client relations, sales, budget and business skills. As with any wide-ranging consultancy, Synapse may draw on outside experts for lectures on specific subjects (e.g./ law, ethics). Additionally, students will foster an atmosphere of service learning, teamwork and professionalism by working on both for-profit and not-for-profit campaigns with real clients.

Prerequisite(s): TAKE JMC-202
SC-497A SYMPHONY THINKING IN ACTION (6 Credits)
Synapse Matters offers students the opportunity to act as associates of a marketing communications consultancy in a business setting on campus. Students will learn valuable leadership, customer service and client relations, sales, budget and business skills. As with any wide-ranging consultancy, Synapse may draw on outside experts for lectures on specific subjects (e.g., law, ethics). Additionally, students will foster an atmosphere of service learning, teamwork and professionalism by working on both for-profit and not-for-profit campaigns with real clients.

SC-498 Agency Experience: Synapse II (3 Credits)
Synapse Matters offers students the opportunity to act as associates/employees of a marketing communications consultancy in a business setting on campus. Students will learn valuable leadership, customer service and client relations, sales, budget and business skills. As with any wide-ranging consultancy, Synapse may draw on outside experts for lectures on specific subjects (e.g., law, ethics). Additionally, students will foster an atmosphere of service learning, teamwork, and professionalism by working on both for-profit and not-for-profit campaigns with real clients. This course continues the work of SC 497.

Prerequisite(s): TAKE SC-497

SC-499 COMPREHENSIVE EXPERIENCE (0 Credits)
Students in the Strategic Communication program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select from a position and 'apply' for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of the faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric Students will either pass or fail. Students who fail will have until the end of spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours are completed.

Restrictions: RG.71+

SC-499A COMPREHENSIVE EXPERIENCE (0 Credits)
Students in the Strategic Communication program will be expected to participate in a Program Assessment Comprehensive Interview in the fall of year four. The student is expected to select from a position and 'apply' for a position. The student will then submit a cover letter, resume and portfolio for review by the assessment committee comprised of the faculty and alumni/professionals. Students will participate in professional etiquette seminars. In preparation for the interview, students will be expected to gather information about the company/organization, as would be expected in a professional environment. Students will be graded based on a comprehensive rubric Students will either pass or fail. Students who fail will have until the end of spring year four to make suggested corrections and submit again. It is also expected that before students receive a grade for this course, all 400 internship hours are completed.
BROADCAST JOURNALISM, BA

This new major in broadcast journalism takes advantage of our many industry connections and offers a structured way for students interested in broadcast-related careers to approach our curriculum. Students learn communications fundamentals in their first two years through the core Jandoli curriculum, and then they focus their second two years on broadcast-related classes.

The Jandoli School of Communications is home to the Bob Koop Broadcasting Lab, which is a newsroom and fully functioning television production studio located in the Murphy Professional Building. Since the lab’s inception in the 1990s, hundreds of journalism students have enrolled in elective courses associated with SBU-TV’s production to gain professional experience that could earn them a career in a broadcast newsroom.

In addition, SBU-TV provides broadcast programming for Spectrum. The recorded broadcast airs in the Western New York region from Cattaraugus County to Buffalo, reaching far beyond campus.

Additionally, we have had dozens of alums work professionally in broadcast journalism, including at the very top of the field, like NBC News, ESPN and Fox News.

### Code Title Credits

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<td>JMC-340</td>
<td>BROADCAST REPORTING</td>
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<td>JMC-441</td>
<td>SEM. IN BROADCAST JOURNALISM II</td>
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<td>COMPREHENSIVE EXPERIENCE</td>
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<td>JMC-345</td>
<td>ON-AIR ANNOUNCING</td>
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<td>or JMC-348</td>
<td>MOBILE JOURNALISM</td>
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<td>or JMC-349</td>
<td>PRODUCING BROADCAST NEWS</td>
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<td>or JMC-445</td>
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Select one of the following:

Select one of the following:

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<td>BUS-101</td>
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1. The modern language must be at the 202 level and may be modern or classical (Latin). Students not prepared to begin at this level will need to take additional courses. Those additional courses will count as general electives.

2. The Jandoli School of Communication requires MATH-107 or MATH-135 to satisfy the University’s Quantitative Literacy General Education Requirement.

### First Year

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### Second Year

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<td>PHIL-111</td>
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### Third Year

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<td>SOC-101</td>
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### Fourth Year

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15 14

Total Credits 120

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NOTE: Students must complete internship requirements totaling 400 hours either on- or off-campus under the guidance of the Jandoli School internship coordinator. Transfer students must complete 100 hours for each year they are on campus.

Students must take a minimum of 72 hours outside of JMC or SC coursework per ACEJMC guidelines.
COMMUNICATION, MINOR

A minor for non-majors includes the completion of 21 credits distributed as follows:

<table>
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<tbody>
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<td>JMC-101</td>
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<td>JMC-111</td>
<td>PROFESSIONAL WRITING II: CRAFT</td>
<td>3</td>
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<td>JMC-201</td>
<td>REPORTER’S NARRATIVE: STYLE</td>
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<td>JMC-202</td>
<td>REPORTER’S NARRATIVE: CRAFT</td>
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<tr>
<td>JMC or SC electives</td>
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<td>Total Credits</td>
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<td>21</td>
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</table>

Note: Some JMC and SC courses available as electives have pre-reqs that must be fulfilled.

No student enrolled in any Jandoli School major may minor in Communication. This is a minor for non-majors only.
# JOURNALISM, BA

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>JMC-101</td>
<td>COMMUNICATION TODAY</td>
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<tr>
<td>JMC-110</td>
<td>PROFESSIONAL WRITING I: STYLE</td>
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<td>JMC-111</td>
<td>PROFESSIONAL WRITING II: CRAFT</td>
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<td>COMPREHENSIVE EXPERIENCE</td>
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<td>SC-220</td>
<td>DIGITAL CONTENT &amp; ENVIRONMENT</td>
<td>3</td>
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<tr>
<td>JMC-305</td>
<td>COMPUTER-ASSISTED REPORTING or JMC-399</td>
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<td>JMC-341</td>
<td>SPORTS TV PRODUCTION I</td>
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<td>JMC-342</td>
<td>SPORTS TV PRODUCTION II</td>
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<td>JMC-414</td>
<td>JOURNALISTS’ WORKSHOP I</td>
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<td>JMC-415</td>
<td>JOURNALISTS’ WORKSHOP II</td>
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<td>JMC-440</td>
<td>SEM. BROADCAST JOURNALISM I</td>
<td>3</td>
</tr>
<tr>
<td>JMC-441</td>
<td>and SEM. IN BROADCAST JOURNALISM II</td>
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<td>JMC-499</td>
<td>COMUNICATIONS RESEARCH METH</td>
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<td>JEC-101</td>
<td>MODERN OR CLASSICAL LANGUAGE</td>
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<td>JMC-341</td>
<td>SPORTS TV PRODUCTION II</td>
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## Experiential Learning Courses (select one group)

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<td>JMC-441</td>
<td>and SEM. IN BROADCAST JOURNALISM II</td>
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Select two JMC/SC electives

1. Modern or Classical Language
   - ENG-230  PUBLIC SPEAKING  3
   - THTR-201 ACTING IN CHARACTER  3
   - THTR-333 ACTING FOR THE CAMERA  3

Select one of the following:

- ECO-101  MICROECONOMIC PRINCIPLES  3
- ECO-102  MACROECONOMIC PRINCIPLES  3
- BUS-101  ELEMENTS OF BUSINESS  3

## General Education Requirements

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## First Year

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<td>MATH-107 or 135</td>
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<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>JMC Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Requirements</td>
<td>4</td>
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<tr>
<td></td>
<td>General Electives</td>
<td>3</td>
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</tbody>
</table>

Total Credits 120

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1. Language must be at the 202 level and may be modern or classical (Latin). Students not prepared to begin at this level will need to take additional courses. Those additional courses will count as general electives.

2. The Jandoli School of Communication requires MATH-107 or MATH-135 to satisfy the University’s Quantitative Literacy General Education Requirement.

NOTE: Students must complete internship requirements totaling 400 hours either on- or off-campus under the guidance of the Jandoli School internship coordinator. Transfer students must complete 100 hours for each year they are on campus.

Students must take a minimum of 72 hours outside of JMC or SC coursework per ACEJMC guidelines.
SPONS MEDIA, BA

Students enrolled in the sports media major learn communications fundamentals in their first two years through the core Jandoli School curriculum, then focus their second two years on sports-related classes. The combined course of study prepares them for communication careers in a variety of sports-related fields, including sports journalism, sports broadcasting, public relations, marketing communications, and sports information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JMC-101</td>
<td>COMMUNICATION TODAY</td>
<td></td>
</tr>
<tr>
<td>JMC-110</td>
<td>PROFESSIONAL WRITING I: STYLE</td>
<td></td>
</tr>
<tr>
<td>JMC-111</td>
<td>PROFESSIONAL WRITING II: CRAFT</td>
<td></td>
</tr>
<tr>
<td>JMC-201</td>
<td>REPORTER’S NARRATIVE: STYLE</td>
<td></td>
</tr>
<tr>
<td>JMC-202</td>
<td>REPORTER’S NARRATIVE: CRAFT</td>
<td></td>
</tr>
<tr>
<td>SC-220</td>
<td>DIGITAL CONTENT &amp; ENVIRONMENT</td>
<td></td>
</tr>
<tr>
<td>JMC-245</td>
<td>VIDEO PRODUCTION</td>
<td></td>
</tr>
<tr>
<td>JMC-300</td>
<td>MEDIA LAW AND ETHICS</td>
<td></td>
</tr>
<tr>
<td>JMC-322</td>
<td>SPORTS COMMUNICATION</td>
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</tr>
<tr>
<td>JMC-499</td>
<td>COMPREHENSIVE EXPERIENCE</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JMC-341</td>
<td>SPORTS TV PRODUCTION I</td>
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<tr>
<td>&amp; JMC-342</td>
<td>and SPORTS TV PRODUCTION II</td>
<td></td>
</tr>
<tr>
<td>JMC-414</td>
<td>JOURNALISTS’ WORKSHOP I</td>
<td></td>
</tr>
<tr>
<td>&amp; JMC-415</td>
<td>and JOURNALISTS’ WORKSHOP II</td>
<td></td>
</tr>
<tr>
<td>JMC-440</td>
<td>SEM. BROADCAST JOURNALISM I</td>
<td></td>
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<tr>
<td>&amp; JMC-441</td>
<td>and SEM. IN BROADCAST JOURNALISM II</td>
<td></td>
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<tr>
<td>SC-497</td>
<td>Agency Experience: Synapse I</td>
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</tr>
<tr>
<td>&amp; SC-498</td>
<td>and Agency Experience: Synapse II</td>
<td></td>
</tr>
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</table>

Select two Sports Media courses from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>JMC-312</td>
<td>SPORTS WRITING</td>
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</tr>
<tr>
<td>JMC-412</td>
<td>SPORTS COMMENTARY &amp; ANALYSIS</td>
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<tr>
<td>JMC-263</td>
<td>SPORTS PHOTOJOURNALISM</td>
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<tr>
<td>SC-350</td>
<td>SPORTS STRATEGIC COMMUNICATION</td>
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<tr>
<td>SC-355</td>
<td>SPORTS MEDIA RELATIONS</td>
<td></td>
</tr>
<tr>
<td>JMC-341</td>
<td>SPORTS TV PRODUCTION I (if not already taken in the above requirement)</td>
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</tr>
<tr>
<td>JMC-342</td>
<td>SPORTS TV PRODUCTION II (if not already taken in the above requirement)</td>
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Select one of the following: 3

<table>
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<th>Code</th>
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<tr>
<td>ECO-101</td>
<td>MICROECONOMIC PRINCIPLES</td>
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<tr>
<td>or ECO-102</td>
<td>MACROECONOMIC PRINCIPLES</td>
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<tr>
<td>or BUS-101</td>
<td>ELEMENTS OF BUSINESS</td>
<td></td>
</tr>
</tbody>
</table>

Foreign Language 3

General Education Requirements 37

General Electives 36

Total Credits 120

The modern language must be at the 202 level and may be modern or classical (Latin). Students not prepared to begin at this level will need to take additional courses. Those additional courses will count as general electives.

The Jandoli School of Communication requires MATH-107 or MATH-135 to satisfy the University’s Quantitative Literacy General Education Requirement.

NOTE: Students must take a minimum of 72 hours outside of JMC or SC coursework per ACEJMC guidelines.

Students must complete internship requirements totaling 400 hours either on- or off-campus under the guidance of the Jandoli School internship coordinator. Transfer students must complete 100 hours for each year they are on campus.
Students must take a minimum of 72 hours outside of JMC or SC coursework per ACEJMC guidelines.
### Strategic Communication, BA

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>JMC-101</td>
<td>COMMUNICATION TODAY</td>
<td>3</td>
</tr>
<tr>
<td>JMC-110</td>
<td>PROFESSIONAL WRITING I: STYLE</td>
<td>3</td>
</tr>
<tr>
<td>JMC-111</td>
<td>PROFESSIONAL WRITING II:CRAFT</td>
<td>3</td>
</tr>
<tr>
<td>JMC-201</td>
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<td>REPORTER’S NARRATIVE: CRAFT</td>
<td>3</td>
</tr>
<tr>
<td>JMC-245</td>
<td>VIDEO PRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td>JMC-300</td>
<td>MEDIA LAW AND ETHICS</td>
<td>3</td>
</tr>
<tr>
<td>JMC-399</td>
<td>COMMUNICATIONS RESEARCH METH</td>
<td>3</td>
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<tr>
<td>SC-210</td>
<td>SOCIAL MEDIA IN SOCIETY/BUSINESS</td>
<td>3</td>
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<tr>
<td>SC-220</td>
<td>DIGITAL CONTENT &amp; ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td>SC-302</td>
<td>GLOBAL MARKETING &amp; COMMUNICATION</td>
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<tr>
<td>SC-303</td>
<td>DIGITAL MARKETING</td>
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</tr>
<tr>
<td>SC-497</td>
<td>Agency Experience: Synapse I</td>
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</tr>
<tr>
<td>SC-499</td>
<td>COMPREHENSIVE EXPERIENCE</td>
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<tr>
<td>JMC/SC elective</td>
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<tr>
<td>Modern Language</td>
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<td>General Education Requirements</td>
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<td>Political Science</td>
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<td>Select one of the following:</td>
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<td>POLS-103</td>
<td>INTERNATIONAL RELATIONS</td>
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<td>POLS-330</td>
<td>INT’L POLITICAL ECONOMY</td>
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<tr>
<td>IS-101</td>
<td>INTRO TO INTERNATIONAL STUDIES</td>
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<tr>
<td>Business</td>
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<td>MKT-301</td>
<td>PRINCIPLES OF MARKETING</td>
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<td>MKT-302</td>
<td>CONSUMER BEHAVIOR</td>
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<tr>
<td>MGT-301</td>
<td>MGMT &amp; ORGANIZA.BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>ECO-101</td>
<td>MICROECONOMIC PRINCIPLES</td>
<td>3</td>
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<tr>
<td>ECO-102</td>
<td>MACROECONOMIC PRINCIPLES</td>
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<td>BUS-101</td>
<td>ELEMENTS OF BUSINESS</td>
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<td>General Electives</td>
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</tr>
<tr>
<td>Total Credits</td>
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<td>120</td>
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</table>

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2 The Jandoli School of Communication requires MATH-107 or MATH-135 to satisfy the University’s Quantitative Literacy General Education Requirement.

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OFF CAMPUS STUDY OPPORTUNITIES

Students interested in a study abroad experience — summer, semester, or full year — should contact the Registrar’s Office one year in advance. Careful planning and coordination take place during that time. Students should have appropriate departmental approval in order to participate in study abroad.

Options are available in all majors, some including internships, work/study and service learning. Grades and credits earned through study abroad programs sponsored by SBU are applied to SBU transcripts. Only credits earned through outside study abroad programs are applied to SBU transcripts.

Federal financial aid can be applied towards a study abroad experience; however, students holding institutional or certain endowed scholarships or grants will be unable to use these to fund the cost of their study-abroad program. For more information, students and parents should contact the Office of Financial Aid at (716) 375-2020 or onestop@sbu.edu.

For students interested in intersession or summer courses, St. Bonaventure University offers the following short-term programs:

- The Francis E. Kelley Oxford Program: six-week summer session at Oxford University where students can earn six credits; open to qualified sophomores and juniors.
- Galway, Ireland: four-week session, six credits, at National University of Ireland at Galway.
- Limerick, Ireland: three-week session in June at the University of Limerick.
- Perugia, Italy: six-week program beginning mid-May; offering six or seven credits: Core Area Courses, business, Italian, fine arts, humanities, social sciences; includes field trips and excursions to places like Rome, Florence, Siena, Orvieto, Cortona, Bagnoregio. Contact Dr. Panzarella (panzarel@sbu.edu) for details.
- Salamanca, Spain: five-week program, where students earn credit for Spanish 202 or higher; students can improve Spanish skills and immerse in the culture of Spain.
- Seville, Spain: four-week program in Arabic or Spanish language and culture for six credits; includes field study in Spain and Morocco.
- China: two-week, three-credit May session, open to graduate/undergraduate students, offering overview of history, politics, culture, language, business of China.

Washington Semester

St. Bonaventure students are eligible to participate in the Washington internship program for a semester or a summer. St. Bonaventure credit is awarded for the practica, which are seminar-based and include internships in the following areas: Journalism, Economic Policy, American Politics, International Business and Trade, Foreign Policy, Justice, International Environment and Development, Public Law, Art and Architecture, History, Cultural Policy, Peace and Conflict Resolution, Islamic Studies, Education Policy, and Transforming Communities.

Through the St. Bonaventure University affiliations with American University, The Washington Center and SUNY-Brockport, students earn between 12 and 16 credits. Contact Dr. Lambert at jlambert@sbu.edu for more information.
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Director User Services
Timothy Geiger, B.A.
Director of Enterprise Services
Timothy Hill, B.A.
Media Support Specialist
Eric Hund, B.A.
Helpdesk Assistant
Brian Kellogg, M.S.
Director of Technology Infrastructure & Security
Lauren Newcome, B.S.
Enterprise Projects Manager
Senior Network Administrator
Wayne Oonk, A.A.S.
PC/LAN Support Specialist
Michael Rosenswie, B.S.
PC/LAN Support Specialist
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Applications Developer

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Coordinator for Admissions Communications

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Director of Franciscan Health Care Professions

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Admissions Counselor

Jenna Speck, M.S.
Admissions Counselor

Dahron Wells, B.A.
Admissions Counselor

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Director

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Assistant Director

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Financial Aid Technician
Sue van her Horst
Financial Aid Technician

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Senior Multi-media Producer
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Director of University Communications
Jennifer Pulver, B.A.
Director of Graphic Design
Jim Serfini
University Switchboard Operator

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Vice President for Student Affairs
Fr. Ross Chamberland, O.F.M., EdD.
Assistant Vice President for Student Engagement
Cindy Proctor,
Administrative Assistant

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Assistant Dean For Student Development
Marie Torrey, M.S.Ed.
Career Counselor
Mary Pezzimenti
Student Employment/Recruiter
Lisa Clark
Administrative Assistant

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Director
Marlene Wust-Smith, MD
Doctor/Medical Services Manager
Karissa Conner, LPN
Nurse
Carmella Bartimole, PhD, LMHC
Counselor
Amy Mickle, MSEd., LMHC
Counselor

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Associate Director of Residence Life
Nicole Honeysett, B.A B.S
Residence Director
Stephen Weinman, M.A.
Residence Director
Emanual Philip B.S
Residence Director
John Lehman B.A
Residence Director

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Associate Dean for Student Life
Mary Frac, B.S.
Assistant Director
Margot Hickey, M.S.
Coordinator, Intramural, Recreation & Club Sports
Andrew Tui Osborne, B.S.
Head Coach, Men's Rugby
Danny Neighbor, B-Tech ND
Assistant Coach, Men's Rugby
Clarence Picard, B.A.
Head Coach, Women's Rugby
Cody Cornelius, B.S., A.T.C.
Athletic Trainer

Safety & Security
Gary Segrue, M.A.
Director, Office of Safety and Security
John Brewer, A.B.A
Security Professional
Cory Burr, A.A.S.
Security Professional
Angela Fowler
Security Professional
Jason Geise, A.A.S.
Security Professional
William Hilliard
Security Professional
Donald Jarosz, A.A.S.
Security Professional
Zachery Kohlmeier, A.A.S.
Security Professional
Jeffrey Madigan, B.A.
Security Professional

Elizabeth Murphy, B.S.
Security Professional

Dillon Ruediger, B.S.
Security Professional

Mary Wiley
Security Professional

Daniel Williams
Security Professional

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Director of Intercollegiate Athletics

Barbara A. Questa, M.Ed.
Deputy Director of Athletics/ SWA

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Sr. Associate Athletic Director for Internal Operations & Facilities

Steve Mest, M.S.
Sr. Associate Athletic Director for External Relations

Ryan Clingan, M.S.
Sr. Associate Athletic Director for Compliance

Sean McNamee, M.A.
Assistant Athletic Director for Advancement

Seth Johnson, M.S.
Assistant Athletic Director of Marketing, Licensing and Fan Engagement

Angela Nelson, B.A.
Director of Athletics Business and Finance

Cameron Myers
General Manager - Bonnies Sports Properties

Kathy Parmentier, M.S.A.
Ticket Office Manager

Anthony Palumbo, B.A.
Ticket Sales Representative

Rhonda Monahan, B.S.
Purchasing and Operations Assistant

MaryBeth Fidurko
Athletics Secretary

Claire Watson, Ph.D.
Faculty Athletics Representative

Joel Rosencrance, M.S.Ed.
Assistant Athletic Director for Student Athlete Support Services

Hope Thomas, M.S.
Athletic Academic Coordinator

Scott Eddy, M.A.
Director of Athletic Communications

Dylan Nuzzo, B.S.
Athletics Communications Assistant

Nathan DeSutter, B.A.
Digital Media Director

Rick Karnath, B.A.
Director of Broadcasting

Darryn Fiske, M.S.
Director Strength and Conditioning

Connor Borowski, M.S.
Assistant Strength Coach

Nyla Rueter, M.A.
Assistant Strength Coach

Interim Director of Sports Medicine/Head Athletic Trainer

Rebecca Davis, M.S., A.T.C.
Assistant Athletic Trainer

Andrew Birschbach, M.S., L.A.T., A.T.C., CSCS
Athletic Trainer

Justin Waas, M.S., A.T.C., C.E.S., F.M.T.
Assistant Athletic Trainer

Joshua Wall, M.S., L.A.T., A.T.C., CSCS
Assistant Athletic Trainer

Marcy Higgs, M.S., R.D., C.D.N.
Nutritionist

Larry Sudbrook, B.S.
Head Coach, Baseball

Brandon Salerno, B.B.A.
Assistant Baseball/Strength and Conditioning Coach

Mark Schmidt, B.B.A.
Head Coach, Men's Basketball

Stephen Curran, B.A.
Associate Head Coach, Men's Basketball

Travon Woodall, B.A.
Assistant Coach, Men's Basketball

Sean Neal, M.B.A.
Assistant Coach, Men's Basketball

Matt Pappano, M.A.
Director of Men's Basketball Operations

Jesse Fleming, B.A.
Head Coach, Women's Basketball

Bryanna Mueller, M.B.A.
Assistant Coach, Women's Basketball

Amber Easter, M.B.A.
Assistant Coach, Women's Basketball

Ryan Phillips, M.S.
Assistant Coach, Women’s Basketball
Alysha Giarra, M.Ed.
Director of Women’s Basketball Operations

Bob Macfarlane, M.S.Ed.
Head Coach, Men’s and Women’s Cross Country/Track Coach

Sarah Lonzi, M.S.
Assistant Coach, Men’s and Women’s Cross Country/Track Coach

Ryan Swanson, B.S.
Head Coach, Golf

Randy Mearns, M.S.
Head Coach, Men’s Lacrosse

Gill Conners, B.A.
Assistant Coach, Men’s Lacrosse

Christian ‘Nico’ Capron, M.S.
Assistant Coach, Men’s Lacrosse

Jason Levesque, M.S.
Head Coach, Women’s Lacrosse

Shannon MacKesey, B.A.
Assistant Coach, Women’s Lacrosse

Kwame Oduro, B.A.
Head Coach, Men’s Soccer

Ryan Arvin, M.B.A.
Assistant Coach, Men’s Soccer

Steve Brdariski, B.B.A.
Head Coach, Women’s Soccer

Abby Pearson, B.A.
Assistant Coach, Women’s Soccer

Mike Threehouse, B.A.
Head Coach, Softball

Todd Randall, B.A.
Assistant Coach, Softball

Alex Schultz, M.A.
Assistant Coach, Softball/Equipment Coordinator

Skip Nitardy, B.S.
Head Coach, Men’s and Women’s Swimming

Stephanie Fleming, M.B.A.
Head Coach, Men’s and Women’s Diving

Laura Harting, M.A.
Assistant Coach, Men’s and Women’s Swimming & Diving

Alex Marra, B.B.A.
Assistant Coach, Men’s and Women’s Swimming & Diving

Michael Bates, B.S.
Head Coach, Men’s and Women’s Tennis

Abbie Bricker, B.S.
Cheerleading Coach

Timothy Dyet, B.A.
Pep Band Director

Office of the Senior Vice President for Finance and Administration
H. Daniel Hungerford, B.S., C.P.A., C.G.M.A.
Vice President for Finance and Administration

Bonita Sturdevant, A.A.S.
Executive Administrative Assistant

Business Office
Nancy K. Taylor, B.B.A., C.P.A.
Controller

Ann R. Kightlinger, M.B.A.
Director of Student Accounting Services

Karalyn Abdo, M.B.A.
Coordinator of Student Accounts

Priscilla Dombek
Student Financial Services Cashier

Patricia Shumway, B.B.A.
Accounting Manager

Chassagne Shaffer, A.A.S.
Junior Accountant

Selena Ou, M.B.A., C.P.A.
Senior Accountant

Wendy Higley, A.O.S.
Accountant

Kelly Hand
Disbursements & Expense Coordinator

Michael Green, B.B.A.
Budget Analyst

Miranda Puccinelli
Accounts Payable Specialist

Facilities Department
Jared Smith
Director of Facilities Operations

Christopher Heil
Housekeeping Manager

Kelly Hale
Facilities Operations Business Manager

Joe Questa
Facilities Operations General Manager

Tony Hoch
Facilities Operation Maintenance & Engineering Manager

Jamie Peace
Mailroom and Receiving Manager
Office of Human Resources
R. Erik Seastedt, M.S.
Director of Human Resources
Leslie D. Carlson, M.S.
Assistant Director of Human Resources
Jacquelin M. Zimmer
Human Resources Assistant

Payroll Office
Nancy Ryan, A.O.S.
Payroll Manager

Event and Conferences
Caitlin Webster, B.S.
Director of Events and Conferences
Jennifer Hassen, M.B.A.
Events Coordinator

Dining Services
Nikki Clark
General Manager
Tina Herne
Catering Director
Steve Young
Food Production Manager
Andy Kirtz
Executive Chef
Jen Penhollow
Residential Manager
Jen Margeson
Retail Manager

Office of University Advancement
Robert Van Wicklin, M.A.
Vice President for University Advancement
Kimberly Ramarge, A.A.S.
Executive Administrative Assistant
Susan Anderson, B.A.
Director of Fundraising Communications
Martin Blind, M.S.
Major Gifts Officer
Colleen Crino, B.A.
Data Specialist
Rachel Elser, M.B.A.
Bonathon Manager
Joe Flanagan, M.S.
Director of Alumni Services
Douglas Frank,
Consultant for Annual Fund
Diane Frick, M.B.A.
Director of Advancement Operations
Janet Glogouski, B.B.A.
Major Gifts Officer
Karen France, B.B.A.
Director of Prospect Research
Karen Heitzinger
Volunteer Services Coordinator
Joseph W. Hoag, B.S.
Major Gifts Officer
Robert F. Keenan, B.A.
Associate Director of Planned Giving
Michael Kramer, B.S.
Senior Major Gifts Officer, New York Metro Area - Regina A. Quick Arts Center Focus
Alan Riddle, M.B.A
Director of Annual Giving
Kathleen Ryan, B.B.A.
Assistant Director of Development for Stewardship
Diane Walker
Gift Processing Manager
Jody Wickehnsky, B.S.
Technical Coordinator for Advancement Services

Office of the Vice President for Mission Integration
Fr. Russell T. Murray, O.F.M., Ph.D., S.T.L.
Vice President for Mission Integration
Yvonne M. Peace
Executive Administrative Assistant

Office of University Ministries
Fr. Greg Jakubowicz, O.F.M., J.D., M.Div
University Chaplain & Executive Director, University Ministries
Amanda Naujoks, M.A.
Director of the San Damiano Center for Pastoral and Liturgical Ministries
Alice Miller Nation, M.A.
Director of the Franciscan Center for Social Concern
Marcia Wymer
Coordinator of Liturgy and Music Ministry

Mt. Irenaeus Community
Br. Kevin Kriso, O.F.M., MTS, DMin
Coordinator of Mt. Irenaeus Life and Ministry for SBU
Fr. Daniel Riley, O.F.M., MDiv
Animator
Michael Fenn, M.B.A.
Executive Director

Michelle Marcellin
Office Coordinator; Administrative Assistant

Mary Giardini, M.S.
Communications and Development Services Coordinator

Mary Schlosser, B.A.
Coordinator of Development

Br. Joseph Kotula, O.F.M.
Coordinator of Facilities

Fr. Lou McCormick, O.F.M., M.A.
Coordinator of Hospitality

**Ministers in Residence**

Fr. Ross Chamberland
Robinson Hall

Mary Frac
Devereux Hall

Michael Krauza
Falconio Hall

Alice Miller Nation
Shay-Loughlen Hall

Amanda Naujoks, M.A.
Robinson Hall

Fr. Peter Schneible, O.F.M., B.S., Ph.D.
Shay-Loughlen Hall

Paula Scraba, O.S.F., Ph.D.
Devereux Hall

Br. Angel Vazquez, O.F.M.
Devereux Hall
SCHOOL OF ARTS & SCIENCES

Dean: David Hilmey, Ph.D.
Administrative Assistant: Sharon Godfrey

Study of the liberal arts and sciences has always been the foundation of undergraduate education at St. Bonaventure. Courses and programs are designed to introduce students to the world of ideas; to develop their powers of reasoning and expression; to enable them to think meaningfully about God and personal identity; to become aware of the history, literature, science, art and institutions which constitute our culture; to develop aesthetic awareness and appreciation; and to prepare them for an active and effective role in the contemporary world. To these ends, students in every school of the University pursue studies in the School of Arts and Sciences.

Within the school, students pursue major interests in a wide variety of departmental programs: Biology, Biochemistry, Chemistry, Computer Science, Cybersecurity, English, Environmental Studies, History, Mathematics, Modern Languages (Spanish), Philosophy, (Philosophy/pre-law), Physics (Engineering Physics), Political Science, Psychology, Sociology, Criminology, and Visual and Performing Arts (Music, Theater and Visual arts). We also offer multidisciplinary majors including Bioinformatics (BS), Behavioral Neuroscience (BS), Health and Society (BS, BA), and International Studies (BA).

These studies can be and often are pursued as ends in themselves. They also provide for the needs of students who plan to enter medical, dental, veterinary, law and other professional schools, who hope to become secondary school teachers, or who intend to enter the various fields of graduate study.

Special advisement and specific courses of study are available in every major to help the student prepare for the student’s own career aims.

For the many entering students who have not made up their minds about a major field, a broad-based program in the arts and sciences is designed to prepare smooth entry into a specific major when the student is ready to make a choice, normally by the end of the sophomore year.
DEPARTMENT OF BIOLOGY

Department Chair: Johanna Schwingel, Ph.D.

Faculty
K. Altman, Ph.D.
J. Benington, Ph.D.
K. Dykstra, Ph.D.
S. Jodush, M.S.
R. Knittel, M.S.
J. Miller, M.S.
S. Ryan, Ph.D.
Fr. P. Schneible, O.F.M., Ph.D.
J. Schwingel, Ph.D.
K. Vogel, M.S.
X. Zhang, Ph.D.

The objectives of the department of biology are to provide the student with opportunities to obtain a broad foundation of biological knowledge and to pursue the study of a particular area of biology through upper-division coursework and mentored research. The curriculum is based strongly in the sciences of biology, chemistry and physics, within the context of the critical and analytic skills derived from the liberal arts core.

The specific aims of the department of biology are:

1. to provide an intensive course of study in the biological sciences;
2. to develop in the majors an appreciation for critical scientific work;
3. to present a program of study which reflects current thinking in the rapidly expanding field of biology.

After successful completion of the program a student may enter any of several career paths. The biology curriculum prepares a student for graduate school, laboratory work and teaching. It also provides all the requirements for application to medical, dental, veterinary and many other health-related programs.

Dr. Arnold T. Borer Summer Research Program
The department of biology at St. Bonaventure offers summer research opportunities in the areas of cellular and molecular biology. This program, supported by the Dr. Arnold T. Borer Summer Research Endowment, provides selected students with a stipend, free room and board, and a travel allowance.

- Biochemistry, BS (p. 207)
- Biology, BS (p. 209)
- Biology, Minor (p. 210)

Biology (BIO)

BIO-ELEC BIOLOGY ELECTIVE (3 Credits)

BIO-101 FUNDAMENTALS OF BIOLOGY (4 Credits)
A human-oriented introductory course for non-science majors. Emphasis will be placed on the biological role of cell organization and function integration of systems, inheritance of individual traits and the genetic basis of evolution. The laboratory will introduce a variety of investigational techniques used to study related problems at the cellular and organismal levels.

Corequisite(s): Take BIOL-101

BIO-105 BIOLOGICAL SCIENCE I (4 Credits)
The first half of a two-semester foundation course in biological science for science majors. The course includes a detailed examination of the cellular and molecular basis of life as well as introductions to modern molecular genetics, evolutionary theory, and the history of life on earth. The laboratory component of the course involves a practical examination of the above topics with special emphasis on the scientific method as applied to biology and the writing of detailed laboratory reports.

Corequisite(s): Take BIOL-105

BIO-106 BIOLOGICAL SCIENCE II (4 Credits)
The second half of a two-semester foundation course in biological science for science majors. The major emphases of this semester are animal biology, plant biology, and ecology. The form and function of animals and plants are examined on the molecular, cellular, organismal, and ecological levels. The laboratory component of the course involves a practical examination of the above topics with special emphasis on the scientific method as applied to biology and the writing of detailed laboratory reports.

Prerequisite(s): Take BIO-105

BIO-110 PLANTS AND HUMAN CULTURE (4 Credits)
From foods, to medicines, to fibers, to building materials, plants serve a vital role in our lives. This course emphasizes how basic plant structure and function interfaces with human existence. Special attention is given to multi-cultural approaches to the use of plant material. Laboratory exercises are designed to highlight practical applications of botany. This course cannot be used to fulfill elective credit requirements for the biology major. NOTE: This course cannot be used for Biology major credit.

Corequisite(s): BIOL-110

BIO-112 HUMAN ECOLOGY (3 Credits)
This course is designed for the liberal arts student who is interested in the relationship between humans and their natural environment. The integrative concept of humans as one species in a global ecosystem will be emphasized. Elementary ecological principles will be applied to such environmental problems as energy resources, land use, air and water pollution, and species extinction. We will seek solutions along multi-disciplinary lines, including economics, political science, and environmental ethics.

BIO-115 INTRODUCTION TO BIOTECHNOLOGY (3 Credits)
This course communicates the importance of scientific practices and their multifaceted application in daily life. The lecture focuses on a current topic in biotechnology that relates to human life and that has caused social concerns. Students survey historical and current evidence to learn about the philosophy of science, the nature of the problem, the causes of concern, and the scientific findings. Students then use the knowledge and skills learned in the course to construct a scientific investigation.

Corequisite(s): BIOL-135

BIO-211 HUMAN ANATOMY & PHYSIOLOGY (4 Credits)
A study of the structure and function of the human body. Special emphasis is placed upon correlating structure with function in an examination of the human body from the cell and cellular metabolism level to the complex systems level. The laboratory is correlated with lectures and includes exercises of cell and tissue structure and function and exercises covering and integrating the microscopic and gross anatomy of the integument, body membranes, skeleton, articulations, and muscles with their corresponding body functions.

Prerequisite(s): Take BIO-101 or BIO-105
BIO-212 HUMAN ANATOMY & PHYSIOLOGY (4 Credits)
A continuation of Biology 211 in which attention is given to the structure and function of biological integrating and control mechanisms and mechanisms for processing, transporting, secreting, and eliminating. Emphasis is given to body maintenance response to external and internal stress. Laboratory exercises cover nervous, endocrine, digestive, circulatory, respiratory and urinary structures and processes in maintaining homeostasis.
Prerequisite(s): Take BIO-211
Restrictions: RGM.113

BIO-291 GENETICS (3 Credits)
A critical study of biological variation based on the molecular characteristics of genetic information. The course will cover the mechanisms of transmission genetics, the structural nature of nucleic acids, gene expression and its regulation and the role of mutational events in promoting evolutionary change.
Prerequisite(s): Take BIO-105 BIO-106

BIO-292 CELL BIOLOGY (3 Credits)
Cell Biology is a required course taken by Biology majors in their sophomore year. Having completed the introductory General Biology I and II freshmen sequences, students in BIO 292 adopt a microscopic lens and focus intensely on the features and functions of prokaryotic and eukaryotic organisms. Subjects covered in this course include cell evolution; cell reproduction; cell structure and compartmentalization; differentiation; protein synthesis, targeting, and transport; intra- and intercellular signaling mechanisms; and tools and technologies available for studying cells. These techniques include microscopy (bright field, confocal, and SEM), cell fractionation, radiolabeled nucleotides, and fluorescently tagged proteins.
Prerequisite(s): Take BIO-106

BIO-310 PLANT BIOLOGY (3 Credits)
An introduction to the anatomy, physiology, reproduction, ecology, and evolution of plants. This course is designed to heighten your appreciation for and increase your knowledge of the diversity and complexity of the plant kingdom. The greatest emphasis will be placed on the flowering plants and plants of local significance.
Prerequisite(s): Take BIO-105 and BIO-106

BIO-318 RESEARCH PARTICIPATION I (1 Credit)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty advisor. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion, a research report which follows scientific protocol must be submitted and approved.
Restrictions: RGM.104

BIO-319 RESEARCH PARTICIPATION II (1 Credit)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty advisor. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion, a research report which follows scientific protocol must be submitted and approved.
Prerequisite(s): Take BIO-105 BIO-106
Restrictions: RGM.104

BIO-321 GEN. MICROBIOLOGY (4 Credits)
This course focuses on bacterial diversity, structure, metabolism, growth and control, development of resistance, biofilms, genetics, genomic evolution, and population heterogeneity. Viral diversity, growth, and modes of replication are also investigated. Microbial interactions (microbiomes and host-pathogen interactions) are explored. The lab component reinforces lecture topics and employs both biochemical and genetic organism identification.
Prerequisite(s): Take BIO 291 or BIO 105/106 with instructor permission only

BIO-331 PHYSIOL & ANAT OF HUMAN I (4 Credits)
The first of a two-course sequence that studies the physiology and anatomy of the human body. The chemical and cellular bases for these sciences will be studied. The structure and correlated function of the integumentary, skeletal, muscular, digestive, endocrine and reproductive systems will be examined. The biological controls that result in the integration of these systems will be discussed. The laboratory will consist of the observation of organ system structures on the microscopic and gross anatomy levels. It will also use measurement techniques to quantitatively study physiological processes.
Prerequisite(s): TAKE BIO-105 BIO-106 CHEM-301 CHML-301

BIO-332 PHYSIOL & ANAT OF HUMAN II (4 Credits)
This course is the second in a two-course sequence concerning the physiology and anatomy of the human body, and covers the structures and functions of the nervous, circulatory, respiratory, and excretory systems, and also the regulation of organismal metabolism and energy balance.
Prerequisite(s): TAKE BIO-331

BIO-341 ECOLOGY (3 Credits)
An evaluation of the fundamental interrelations between organism(s) and environment. Field trips will be used to illustrate these phenomena.
Prerequisite(s): Take BIO-105 Bio-106

BIO-350 NEUROBIOLOGY (3 Credits)
An investigation of how electrochemical events in the brain enable humans and other animals to respond to environmental stimuli. We start with a detailed study of the properties of individual brain cells and the neurochemical and biophysical factors that modulate their activity. This is then applied to a discussion of (1) the processing of sensory input and motor output; (2) modulation of neural activity associated with moods, psychocative substances, and states of consciousness; and (3) the mechanisms underlying learning, memory, development of the brain, and conscious experience. In the laboratory, we perform experiments using computer simulations of neuronal physiology and discuss recent developments in neurobiology in a case-study format.
Prerequisite(s): Take BIO-105 BIO-106

BIO-362 ANIMAL DEVELOPMENT (3 Credits)
This course provides a detailed study of molecular and cellular control of embryonic and post-embryonic development in several model systems (Drosophila, C. elegans, Xenopus, Chicken, and Mouse). Topics include fertilization, gastrulation, organogenesis, pattern formulation, cell differentiation, and molecular signaling mechanisms in development. Evolutionary aspects of developmental biology and current research in the field will be addressed throughout the course.
Prerequisite(s): Take BIO 291 or BIO 292, or BIO 105/106 with instructor permission only
BIO-371 BIOCHEMISTRY (4 Credits)
A study of the structures and functions of biomolecules, bioenergetics, major catabolic and anabolic pathways, and the fundamentals of molecular genetics. The laboratory familiarizes the student with biochemical phenomena and provides experience with important techniques used in biochemistry.
Prerequisite(s): TAKE BIO-291, BIO-292, OR BIO-105 AND BIO-106 with instructor permission only

BIO-390 EVOLUTION (3 Credits)
A detailed study of the fundamental principles of biological evolution, including natural selection; neutral theory; population-level evolutionary changes; molecular mechanisms of evolution; the role of morphological, behavioral, and molecular data in our understanding of evolutionary change; and methods of evolutionary research. The course will integrate classical conclusions with contemporary interpretations of evolutionary data, with emphasis placed on modern molecular-based methodologies.
Prerequisite(s): Take BIO-291

BIO-399 BIOLOGY SEMINAR (1 Credit)
The seminar is intended for junior biology majors. Students will read and discuss in a seminar format a series of research papers from the biological literature, organized around a central theme. The themes will vary from semester to semester. Each student will be responsible for analyzing and presenting at least one paper during the course, along with weekly participation in group discussions.
Prerequisite(s): Take BIO 292 or BIO 105/106 with instructor permission only

BIO-403 FRESHWATER ECOSYSTEMS (3 Credits)
A study of the aquatic ecosystems of the world with special emphasis paid to lakes and streams of Western New York. Topics include the biology of the major aquatic plants and animals, and the effects of pollution on the aquatic ecosystem. Biological samples and physical and chemical data are collected from area lakes and streams and will be analyzed as a part of the laboratory section of this course.
Prerequisite(s): Take BIO-105 BIO-106 CHEM-102

BIO-406 PLANT DEVELOPMENT & PHYSIOLOGY (3 Credits)
Growth, development and differentiation of plants are under the control of several interacting factors including chemical, physical and genetic ones. Various aspects of chemical, nutritional and environmental effects on plants will be emphasized. The laboratory will emphasize the experimental methods used to study the various phenomena.
Prerequisite(s): Take BIO 291, BIO 292, or BIO 105/106 with instructor permission only

BIO-418 RES. PARTICIPATION III (2 Credits)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty director. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion a report which follows scientific protocol must be submitted and accepted by two faculty members.
Restrictions: RGM.104

BIO-419 RES. PARTICIPATION IV (2 Credits)
A carefully supervised semester, or year, of organized and formal research on a specific problem to be determined by the student and the faculty director. Students will be admitted on a selective basis. A GPA of 2.7 in biology is required as well as permission of a faculty research advisor prior to registration. For successful completion a report which follows scientific protocol must be submitted and accepted by two faculty members.
Prerequisite(s): TAKE BIO-105 BIO-106

BIO-456 SENIOR FACULTY COLLOQUIUM (0 Credits)
The colloquium is a series of meetings providing a more informal student-faculty interaction and exchange of ideas on biologically related subjects not normally covered in courses or that may have social, moral or philosophical implications beyond those routinely covered in the curriculum. This two-semester sequence is required of all seniors and is designed to satisfy the Comprehensive Examination requirement for biology majors.
Prerequisite(s): Take BIO-399

BIO-457 SENIOR FACULTY COLLOQUIUM (0 Credits)
The colloquium is a series of meetings providing a more informal student-faculty interaction and exchange of ideas on biologically related subjects not normally covered in courses or that may have social, moral or philosophical implications beyond those routinely covered in the curriculum. This two-semester sequence is required of all seniors and is designed to satisfy the Comprehensive Examination requirement for biology majors.
Prerequisite(s): Take BIO-399

BIO-460 BIOCHEMISTRY SEMINAR (1 Credit)
This course will survey classic and current research papers in the areas of Cell and Molecular Biology. This course fulfills the Comprehensive Examination requirement for students in the Biochemistry Program.
Prerequisite(s): Take BIO-466

BIO-466 MOLECULAR BIOLOGY (4 Credits)
This course examines eukaryotic cells from the perspective of organelle ultrastructure and function, and the regulation of cell function through the differential expression of genes. Lecture topics include cell cycle, chromosome structure, mechanisms of gene regulation, the molecular biology of cancer and recombinant DNA technology. The lab component reinforces the lecture by emphasizing the experimental approaches to the study of cell structure and function.
Prerequisite(s): Take BIO-371

BIO-472 IMMUNOLOGY (3 Credits)
This course examines the molecular and cellular basis of humoral and cellular immunity. Antibody structure and function, the origin of antibody diversity and the nature of cellular immunity are examined. Other topics include the role of the major histocompatibility complex in immunity, regulation of the immune system, manifestations of defective regulation (autoimmunity and hypersensitivities) and immunity to infectious agents.
Prerequisite(s): Take BIO 292 or BIO 105/106 with instructor permission only

BIO-490 SPECIAL TOPICS IN BIOLOGY (3 Credits)
The title and nature of this course will vary from semester-to-semester. The course will serve as an upper-level elective that focuses on a specific topic of Biology that is of special interest to a member of the department. The special topic and instructor will be announced prior to registration for the semester in which it is offered.
BIO-490D SP TOP:MICROBIOLOGY FOR NURSING DISEASE (3 Credits)
The title and nature of this course will vary from semester-to-semester.
The course will serve as an upper-level elective that focuses on a specific
topic of Biology that is of special interest to a member of the department.
The special topic and instructor will be announced prior to registration for
the semester in which it is offered.

BIO-490E SP TOP:MICROBIOLOGY FOR NURSING LAB DISEASE (1 Credit)
The title and nature of this course will vary from semester-to-semester.
The course will serve as an upper-level elective that focuses on a specific
topic of Biology that is of special interest to a member of the department.
The special topic and instructor will be announced prior to registration for
the semester in which it is offered.

BIO-494 GENOMICS (3 Credits)
An introduction to the fields of genomics, functional genomics, and
proteomics. The course begins with a description of methods used for
sequencing and analyzing genomes. We then explore what is known
about the structure and functional organization of the genomes of
prokaryotic and eukaryotic organisms. The course concludes with a
discussion of the various approaches being used to determine the
functions of individual genes, and how gene expression is regulated. In
the laboratory, students use online databases and computational tools to
explore and analyze genome sequences.
Prerequisite(s): Take BIO-291

**Biology Lab (BIOL)**

**BIOL-101 FUNDAMENTALS OF BIOLOGY LAB (0 Credits)**
Lab occurs once a week and goes along with BIO 101.
Corequisite(s): BIO-101

**BIOL-105 BIOLOGICAL SCI. I LAB (0 Credits)**
Lab occurs once a week and is taken with BIO 105.
Corequisite(s): Take BIO-105

**BIOL-106 BIOLOGICAL SCI. II LAB (0 Credits)**
Lab occurs once a week and is taken with BIO 106.
Corequisite(s): Take BIO-106

**BIOL-110 PLANTS AND HUMAN CULTURE LAB (0 Credits)**
Corequisite(s): BIO-110

**BIOL-135 INTRODUCTION TO BIOTECHNOLOGY LAB (1 Credit)**
This laboratory course provides a user-friendly environment to introduce
basic biotechnology techniques and practices to help students
understand how to address biotechnology-related social concerns.
Laboratory exercises include different laboratory practices in the field of
biotechnology, ways to analyze and interpret experimental data, and the
how to arrive at conclusions based on evidence.
Corequisite(s): BIO-135

**BIOL-211 HUMAN ANAT & PHYSIOL LAB (0 Credits)**
Lab occurs once a week and is taken with BIO 211.
Corequisite(s): Take BIO-211

**BIOL-212 Human Anat & Physiol Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 212.
Corequisite(s): Take BIO-212
Restrictions: RGM.113

**BIOL-293 GENETICS/CELL BIO LABORATORY (1 Credit)**
This course uses laboratory experiments to provide students experiential
learning opportunities for many of the topics covered in Genetics
(BIO-291) and Cell Biology (BIO 292). These topics include transmission
genetics, genetic and cellular pathways, recombinant DNA technology,
chromosome structure, and cellular function.
Corequisite(s): Take BIO-291 or BIO-292.

**BIOL-310 PLANT BIOLOGY LAB (0 Credits)**
Lab occurs once a week and is taken with BIO 310.
Corequisite(s): Take BIO-310

**BIOL-321 Gen Microbiology Lab (0 Credits)**
Lab occurs once a week and is taken with BIO 321.
Corequisite(s): Take BIO-321

**BIOL-331 PHYSIO & ANAT HUMAN I LAB (0 Credits)**
Lab occurs once a week and is taken with BIO 331.
Corequisite(s): Take BIO-331

**BIOL-332 PHYSIO/ANAT OF HUMAN LAB II (0 Credits)**
Lab occurs once a week and is taken with BIO 332.

**BIOL-341 ECOLOGY LAB (0 Credits)**
Lab occurs once per week and is taken with BIO 341.
Corequisite(s): Take BIO-341

**BIOL-350 NEUROBIOLOGY LAB (0 Credits)**
Lab occurs once per week and is taken with BIO 350.

**BIOL-362 Dev Biology Lab (0 Credits)**

**BIOL-371 BIOCHEMISTRY LAB (0 Credits)**
The laboratory familiarizes the student with biochemical phenomena and
provides experience with important techniques used in biochemistry.
Corequisite(s): Take BIO-371

**BIOL-403 FRESHWATER ECOSYSTEM LAB (0 Credits)**
Lab occurs once per week and it taken with BIO 403.
Corequisite(s): Take BIO-403

**BIOL-406 PLANT DEVELOPMENT & PHYSIOLOGY LAB (0 Credits)**
Lab occurs once per week and is taken with BIO 406.

**BIOL-466 MOLECULAR BIOLOGY LAB (0 Credits)**
Lab occurs once per week and is taken with BIO 466.

**BIOL-472 IMMUNOLOGY LAB (0 Credits)**
Lab occurs once per week and is taken with BIO 472.

**BIOL-490 SPECIAL TOPICS IN BIOLOGY LAB (1 Credit)**
Corequisite(s): Bio-494

**Biochemistry, BS**

Program Director: Xiao-Ning Zhang, Ph.D.

The department of biology offers a program leading to the Bachelor of
Science with a major in biochemistry. The biochemistry program has
been accredited by American Society for Biochemistry and Molecular
Biology (https://www.sbu.edu/academics/biochemistry/asbmb-
aaccreditation/) and provides students with a basic understanding of
living systems that emphasizes the molecular and cellular aspects of
biology.

A new biotechnology lab equipped with environmentally controlled
growth chambers, Real-time and End Point Thermocyclers,
electrophoresis equipment, gel imaging system, cell culture hoods,
confocal fluorescent microscope and various microscopes, etc.
provides the technical component for the program and affords research
opportunities for students during their sophomore, junior and senior
years. The final year of study features independent laboratory research.

Advances in the area of molecular biology and biochemistry have led to
the expansion of job opportunities in the general field of biotechnology
and bioengineering. The biochemistry program will be of special interest
to students with a strong science and mathematics background who are
preparing for graduate school, medical, pharmacy or dental school as well as pharmaceutical or biotechnology positions.

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<th>Code</th>
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<td>BIO-105</td>
<td>BIOLOGICAL SCIENCE I</td>
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Total Credits 120

1 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

2 The Math & Natural Science electives (a total of 16 credits) must be chosen from among the following:
   2. One Chemistry with lab from: CHEM-201/CHML-201, CHEM-402/CHML-402, CHEM-431/CHML-431; 
   3. One Math course from: MATH-117, MATH-207, MATH-241, MATH-251, MATH-252, MATH-322, MATH-323; and
   4. Minimum of two courses from: Biology, Chemistry or Mathematics electives in the listed courses above plus BIOL-293, BIO-318, BIO-319, BIO-390, and CHEM-441

3 General electives are needed when a major course is also fulfilling one of the General Education Distributions.

The comprehensive requirement for Biochemistry majors is the successful completion of BIO-460.

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Total Credits 120
The Math & Natural Science electives (a total of 16 credits) must be chosen from among the following:

2. One Chemistry with lab from: CHEM-201/CHML-201, CHEM-402/CHML-402, CHEM-431/CHML-431;
3. One Math course from: MATH-117, MATH-207, MATH-241, MATH-251, MATH-252, MATH-322, MATH-323; and
4. Minimum of two courses from: Biology, Chemistry or Mathematics electives in the listed courses above plus BIO-293, BIO-318, BIO-319, BIO-390, and CHEM-441.

Changes in the sequence of the program listed above may be desirable.

The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

The comprehensive requirement for Biochemistry majors is the successful completion of BIO-460.

### Biology, BS

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<td>Animal Biology Elective - one course</td>
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<td>Biological Diversity Elective - one course</td>
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<td>3 additional Biology Elective courses of 3-4 credit hours each</td>
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### Physics

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### Molecular and Cellular Biology Electives

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### Biological Diversity Electives

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In addition to these three courses, Biology majors must complete three more Biology courses of 3-4 credit hours each. These electives must be chosen from among the following:

**Biology Electives**

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Research participation (BIO-318, BIO-319, BIO-418, BIO-419) credits may fulfill one or two courses of this requirement, in 3-credit-hour increments.

### First Year

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### Second Year

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<td>MATH-117 or 152&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 CHEM-301</td>
<td>&amp; CHML-302</td>
<td>4</td>
</tr>
<tr>
<td>ENG-101</td>
<td>3</td>
<td>ENG-102</td>
<td>3</td>
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<tr>
<td>General Education Requirement</td>
<td>3 General Education Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

1. Previous education and aptitude determine whether a student takes foreign language 101, 102 and/or 201 before taking 202 or higher. Courses below 202 will count as general electives.

2. Biology majors may take either MATH-117 (Statistics) or MATH-152 (Calculus II) to satisfy the second part of the departmental quantitative reasoning requirement. Some graduate schools require 2 semesters of calculus, while others require statistics. It is the responsibility of the student, in consultation with the academic adviser, to determine which math course would be most suitable.

The course sequence listed above is typical. Individual students may take the required courses in a different sequence, but these changes must be made in consultation with the student’s academic adviser.

The comprehensive requirement for biology majors is the successful completion of BIO-456 and BIO-457.

### Biology, Minor

For non-majors, the following courses constitute a minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-101</td>
<td>FUNDAMENTALS OF BIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL-101</td>
<td>and FUNDAMENTALS OF BIOLOGY LAB</td>
<td></td>
</tr>
<tr>
<td>BIO-105</td>
<td>BIOLOGICAL SCIENCE I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL-105</td>
<td>and BIOLOGICAL SCI. I LAB</td>
<td></td>
</tr>
<tr>
<td>BIO-106</td>
<td>BIOLOGICAL SCIENCE II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL-106</td>
<td>and BIOLOGICAL SCI. II LAB</td>
<td></td>
</tr>
<tr>
<td>BIO-291</td>
<td>GENETICS</td>
<td>3</td>
</tr>
<tr>
<td>or BIO-292</td>
<td>and CELL BIOLOGY</td>
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</table>

Select 3 credits of approved electives from the field of Animal Science

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring Credits</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO-211</td>
<td>3</td>
<td>HUMAN ANATOMY &amp; PHYSIOLOGY</td>
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<td>&amp; BIOL-211</td>
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<td>and HUMAN ANAT &amp; PHYSIOLOGY LAB</td>
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</tr>
<tr>
<td>BIO-331</td>
<td>3</td>
<td>PHYSIO &amp; ANAT OF HUMAN I</td>
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<tr>
<td>&amp; BIOL-331</td>
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<tr>
<td>BIO-350</td>
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<td>NEUROBIOLOGY</td>
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<tr>
<td>&amp; BIOL-350</td>
<td></td>
<td>and NEUROBIOLOGY LAB</td>
<td></td>
</tr>
<tr>
<td>BIO-362</td>
<td>3</td>
<td>ANIMAL DEVELOPMENT</td>
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<tr>
<td>&amp; BIOL-362</td>
<td></td>
<td>and Dev Biology Lab</td>
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Total Credits 119-126
<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO-472</td>
<td>IMMUNOLOGY</td>
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<td>&amp; BIOL-472</td>
<td>and IMMUNOLOGY LAB</td>
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</table>

Select 3 credits of approved electives from the field of Biological Diversity

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-310</td>
<td>PLANT BIOLOGY</td>
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</tr>
<tr>
<td>&amp; BIOL-310</td>
<td>and PLANT BIOLOGY LAB</td>
<td></td>
</tr>
<tr>
<td>BIO-321</td>
<td>GEN. MICROBIOLOGY</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOL-321</td>
<td>and Gen Microbiology Lab</td>
<td></td>
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<tr>
<td>BIO-341</td>
<td>ECOLOGY</td>
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<tr>
<td>&amp; BIOL-341</td>
<td>and ECOLOGY LAB</td>
<td></td>
</tr>
<tr>
<td>BIO-390</td>
<td>EVOLUTION</td>
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<tr>
<td>BIO-403</td>
<td>FRESHWATER ECOSYSTEMS</td>
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<tr>
<td>&amp; BIOL-403</td>
<td>and FRESHWATER ECOSYSTEM LAB</td>
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<tr>
<td>BIO-406</td>
<td>PLANT DEVELOPMENT &amp; PHYSIOLOGY</td>
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<tr>
<td>&amp; BIOL-406</td>
<td>and PLANT DEVELOPMENT &amp; PHYSIOLOGY LAB</td>
<td></td>
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</tbody>
</table>

One or more approved BIO/BIOL courses at the 200 level or higher, totaling at least three credit hours. 3

Total Credits 20-22

Please see the Biology-Minor declaration form for specific details. It is available from your academic adviser. A minimum of three courses in the minor must be taken at St. Bonaventure University.
DEPARTMENT OF CHEMISTRY

Department Chair: Donna Brestensky, Ph.D.

Faculty
D. Brestensky, Ph.D.
K. Gast, Ph.D.
D. Hilmey, Ph.D.
C. Hutchinson, Ph.D.
P. Schneider, M.A.
S. Simpson, Ph.D.

The department of chemistry provides courses to serve a variety of students. The chemistry major finds a curriculum designed to impart a broad competence in the traditional areas of chemistry. Sufficient flexibility remains to allow secondary concentrations in a wide variety of other areas, such as biology, foreign language, or mathematics, among others. With early planning, double majors are also possible. The University’s general requirements guarantee a well-rounded, liberal arts education. Possible career paths include positions in the chemical industry or in adolescence education, graduate school, medical school, dental school, and law school.

Most chemistry majors choose to participate in research projects for credit (see CHEM 498-499), beginning in the second year. These students expand the boundaries of chemical knowledge as they learn to interpret data critically and solve theoretical and/or synthetic problems; some coauthor a peer-reviewed publication with our faculty before they graduate. Also, internships with local companies are encouraged.

The department houses a substantial suite of instrumentation and theoretical chemistry computing resources. Many brand-new items were acquired in 2018-19. Undergraduates get hands-on access to all instrumentation during classes and research projects. Use links on www.sbu.edu/academics/chemistry to view our current list of instrumentation.

Science students who are not chemistry majors, but take chemistry courses as part of their departmental requirements, gain knowledge of the fundamentals of chemistry to aid in the understanding of their major field.

Please note that chemistry lectures and labs are separate courses.

- Chemistry, BS (p. 213)
- Chemistry, Minor (p. 214)

Chemistry (CHEM)

CHEM-100 INTRODUCTION TO CHEM. (3 Credits)
An introduction to the discipline of chemistry and an inventory of the basic materials of chemistry that a student must master prior to Chemistry 101. The course presents a modern view of chemistry suitable for pupils with a wide range of skills and abilities.

CHEM-101 GENERAL CHEMISTRY I (3 Credits)
Three hours of lecture per week. This course covers the atomic theory of matter, stoichiometry, gases, thermochemistry, atomic and molecular structures, condensed phases and solutions.

Corequisite(s): Take CHML-101

CHEM-102 GENERAL CHEMISTRY II (3 Credits)
Three hours of lecture per week. A continuation of Chemistry 101. Topics covered include chemical kinetics, acid-base chemistry, gas-phase and solution equilibria, oxidation-reduction reactions, electrochemistry, and some descriptive chemistry.

Prerequisite(s): Take CHEM-101

CHEM-201 ANALYTICAL CHEMISTRY (3 Credits)
Three hours of lecture per week. A study of the theory and techniques of quantitative analysis, including gravimetric, volumetric, potentiometric, spectrophotometric and chromatographic methods.

Prerequisite(s): Take CHEM-102

CHEM-301 ORGANIC CHEMISTRY I (3 Credits)
Three hours of lecture per week. A continuation of Chemistry 301. The structure, properties and reaction mechanisms of aldehydes and ketones, carboxylic acids and their derivatives, amines, and aromatic compounds are discussed. A thorough introduction to structural analysis by NMR and IR spectroscopy is included.

Prerequisite(s): Take CHEM-301

CHEM-401 PHYSICAL CHEMISTRY I (3 Credits)
Three hours of lecture per week. A systematic application of physical and mathematical principles to chemical systems. Topics addressed include classical thermodynamics, equilibrium systems, and chemical kinetics.

Prerequisite(s): Take CHEM-102

CHEM-402 PHYSICAL CHEMISTRY II (3 Credits)
Three hours of lecture per week. A continuation of Chemistry 401. Advanced instrumental techniques.

CHEM-411 ADVANCED INORGANIC CHEMISTRY (3 Credits)
Three hours of lecture per week. A study of the basic models and concepts fundamental to inorganic chemistry and an introduction to the bonding, reaction mechanisms and spectroscopic properties of transition metal complexes.

Prerequisite(s): CHEM-302 and CHML-302

CHEM-451 ADVANCED PHYSICAL CHEMISTRY (3 Credits)
Three hours of lecture per week. This course will focus on current topics in physical chemistry.

Prerequisite(s): Take CHEM-401
CHEM-470 MECHANISMS IN BIOLOGICAL SYSTM (3 Credits)
Three hours of lecture a week. The well-established mechanistic principles of organic chemistry will be applied to chemical reactions occurring in vivo. Topics include the mechanisms for the metabolism of carbohydrates, fats, and amino acids.
Prerequisite(s): Take CHEM-302

CHEM-480 SP TOPICS IN CHEMISTRY (2-3 Credits)
An upper level/seminar on a specific topic of special interest to a member of the department’s faculty. The specific topic and instructor will be announced prior to registration for the semester in which it is offered.

CHEM-480A SP TOP SPECTROSCOPY OF ORGANIC STRUCTURES & unknowns (3 Credits)
An upper level/seminar on a specific topic of special interest to a member of the department’s faculty. The specific topic and instructor will be announced prior to registration for the semester in which it is offered.

CHEM-497 WORK EXPERIENCE (3-6 Credits)
This course is designed to develop off-campus opportunities for students interested in broadening their undergraduate experience to include periods of paid employment, community service, travel or even independent study. All of the course requirements are handled by the student, the advisor, and the department chair.

CHEM-498 UNDERGRADUATE RESEARCH (1-3 Credits)
Original research is performed under the supervision of a faculty member; both library and laboratory work are expected. Prerequisite: at least sophomore standing and consent of the faculty member involved.
Restrictions: RG.24+

CHEM-499 UNDERGRADUATE RESEARCH (1-3 Credits)
A continuation of Chemistry 498. A comprehensive written research report is required.
Restrictions: RG.24+

Chemistry Lab (CHML)

CHML-101 GEN CHEM I LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 101.
Prerequisite(s): Take CHEM-101

CHML-102 GEN CHEM II LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 102.
Prerequisite(s): Take CHML-101

CHML-201 ANALYTICAL CHEM. LAB (1 Credit)
Four hours of laboratory a week. The analytical determinations will encompass the main techniques considered in Chemistry 201.
Prerequisite(s): Take CHML-102

CHML-301 ORGANIC CHEM I LAB (1 Credit)
Four hours of laboratory a week. This laboratory course integrates the practical aspects of organic chemistry with theory. Experiments are designed to teach basic techniques of separation, purification and analysis, and to synthesize various functional groups discussed in Chemistry 301.
Prerequisite(s): Take CHEM-301

CHML-302 ORGANIC CHEM II LAB (1 Credit)
Four hours of laboratory a week. A continuation of Chemistry 301L. Synthetic experiments correlated closely with topics in Chemistry 302.
Prerequisite(s): Take CHML-301

CHML-401 PHYSICAL CHEM I LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 401.
Corequisite(s): Take CHEM-401

CHML-402 PHYSICAL CHEM II LAB (1 Credit)
Four hours of laboratory per week. This laboratory includes experiments designed to reinforce concepts taught in Chemistry 402.
Prerequisite(s): Take CHML-401

CHML-431 INSTRUMENTAL ANALYSIS LAB (1 Credit)
Four hours of laboratory a week. Introduction to analytical techniques associated with utilizing modern instruments, such as a polarograph, UV, NMR, and IR instruments, and a gas chromatograph.

Chemistry, BS

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEM-101</td>
<td>GENERAL CHEMISTRY I &amp; CHML-101 and GEN CHEM I LAB</td>
<td></td>
</tr>
<tr>
<td>CHEM-102</td>
<td>GENERAL CHEMISTRY II &amp; CHML-102 and GEN CHEM II LAB</td>
<td></td>
</tr>
<tr>
<td>CHEM-201</td>
<td>ANALYTICAL CHEMISTRY &amp; CHML-201 and ANALYTICAL CHEM. LAB</td>
<td></td>
</tr>
<tr>
<td>CHEM-301</td>
<td>ORGANIC CHEMISTRY I &amp; CHML-301 and ORGANIC CHEM I LAB</td>
<td></td>
</tr>
<tr>
<td>CHEM-302</td>
<td>ORGANIC CHEMISTRY II &amp; CHML-302 and ORGANIC CHEM II LAB</td>
<td></td>
</tr>
<tr>
<td>CHEM-401</td>
<td>PHYSICAL CHEMISTRY I &amp; CHML-401 and PHYSICAL CHEM I LAB</td>
<td></td>
</tr>
<tr>
<td>CHEM-402</td>
<td>PHYSICAL CHEMISTRY II &amp; CHML-402 and PHYSICAL CHEM II LAB</td>
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</tr>
<tr>
<td>CHEM-431</td>
<td>INSTRUMENTAL ANALYSIS &amp; CHML-431 and INSTRUMENTAL ANALYSIS LAB</td>
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<tr>
<td>CHEM-441</td>
<td>ADVANCED INORGANIC CHEMISTRY</td>
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<tr>
<td>CHEM-427</td>
<td>SEMINAR IN CHEMISTRY</td>
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Mathematics 15

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MATH-151</td>
<td>CALCULUS I</td>
<td></td>
</tr>
<tr>
<td>MATH-152</td>
<td>CALCULUS II</td>
<td></td>
</tr>
<tr>
<td>MATH-251</td>
<td>CALCULUS III</td>
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<tr>
<td>MATH-252</td>
<td>ORDINARY DIFFERENTIAL EQUATIONS</td>
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Physics 8

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<tr>
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<tbody>
<tr>
<td>PHYS-103</td>
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<td>PHYS-104</td>
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Foreign Language 1

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<tbody>
<tr>
<td>General Electives</td>
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</tr>
<tr>
<td>General Education Requirements (p. 161)</td>
<td>37</td>
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</tr>
</tbody>
</table>

Total Credits 120

1 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.
To satisfy the comprehensive requirement for chemistry, majors must take and pass a comprehensive exam given in their senior year in CHEM 427. Examination details are announced each fall.

**First Year**

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101</td>
<td>4 CHEM-102 &amp; CHML-102</td>
</tr>
<tr>
<td>MATH-151</td>
<td>4 MATH-152</td>
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<tr>
<td>ENG-101</td>
<td>3 Foreign Language 202</td>
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<tr>
<td>Foreign Language 201/General Elective</td>
<td>3 ENG-102</td>
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<td>SBU-101</td>
<td>2 SBU-102</td>
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16 15

**Second Year**

<table>
<thead>
<tr>
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<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-301</td>
<td>4 CHEM-301 &amp; CHML-301</td>
</tr>
<tr>
<td>MATH-251</td>
<td>4 MATH-252</td>
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<tr>
<td>PHYS-103</td>
<td>4 PHYS-103</td>
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<tr>
<td>General Education Requirement</td>
<td>3 MATH-252</td>
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15 15

**Third/Fourth Years**

<table>
<thead>
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<th>Fall Credits</th>
<th>Spring Credits</th>
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</thead>
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<tr>
<td>CHEM-441</td>
<td>3 CHEM-441 &amp; CHML-441</td>
</tr>
<tr>
<td>CHEM-401</td>
<td>4 CHEM-401</td>
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<td>CHEM-431</td>
<td>4 General Education Requirements</td>
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<td>10 General Electives</td>
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<tr>
<td>General Electives</td>
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</tr>
</tbody>
</table>

30 29

Total Credits 120

1. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

2. Upper-level required Chemistry courses offered every other year.

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student’s academic adviser.

To satisfy the comprehensive requirement for chemistry, majors must take and pass a comprehensive exam given in their senior year in CHEM 427. Examination details are announced each fall.

**Chemistry, Minor**

For non-majors, the following courses constitute a minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-101 &amp; CHML-101</td>
<td>GENERAL CHEMISTRY I and GEN CHEM I LAB</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-102 &amp; CHML-102</td>
<td>GENERAL CHEMISTRY II and GEN CHEM II LAB</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-201 &amp; CHML-201</td>
<td>ANALYTICAL CHEMISTRY and ANALYTICAL CHEM. LAB</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-301 &amp; CHML-301</td>
<td>ORGANIC CHEMISTRY I and ORGANIC CHEM I LAB</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-302 &amp; CHML-302</td>
<td>ORGANIC CHEMISTRY II and ORGANIC CHEM II LAB</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: Also required as pre-requisites (14 credits): MATH-151, MATH-152, PHYS-103, PHYS-104; therefore total credit commitment is 38 credits. A 2.00 GPA is required, and these courses may not be taken pass/fail.
DEPARTMENT OF CLASSICS

Department Chair: D. Matz, Ph.D.

Faculty

D. Matz, Ph.D.

The goal of the department is to contribute firsthand knowledge of Greek and Latin literature, for it is in this body of writings that the student may discern most of the concepts upon which our Western World bases its culture.

The general courses in the classics offer broad background for non-major students. The more advanced and specialized courses emphasize the contributions made by outstanding political, literary and intellectual figures of Greek and Roman times.

- Classics, Minor (p. 215)
- Latin, Minor (p. 215)

Classical Culture (CULT)

CULT-101 GREEK CIVILIZATION (3 Credits)
A general survey of the political, intellectual and cultural features of Greek History from its prehistoric beginnings in the fourth millennium B.C. to the founding of Constantinople in 330 A.D. Required of all Classical Studies majors.

CULT-102 ROMAN CIVILIZATION (3 Credits)
A survey of the social, civil and cultural development of Rome from the beginning to 476 A.D. Required of all Classical Studies majors.

CULT-103 GREEK AND ROMAN MYTHOLOGY (3 Credits)
The gods and goddesses of Greco-Roman paganism, both in their relationships amongst themselves and with the world of humans, are studied through (at least) two major ancient literary works and one near-contemporary novel. Required of all Classical Studies majors.

CULT-104 ARCHAEOOGY OF ANCIENT GREECE & ITALY (3 Credits)
This course explores the exciting, beautiful, and often unknown civilizations of ancient Greece and Italy through a material culture perspective. Students are introduced to the architecture, ceramics, painting, sculpture, and urban planning of the Minoan, Mycenaean, Greek, Etruscan, and Roman civilizations.

CULT-105 THE HEROIC GREEKS (3 Credits)
A study of the various types of hero and of anti-hero as they appear in Greek literature.

CULT-106 THE WOMEN OF GREECE (3 Credits)
A survey of the status, role and figure of women in Greek history.

CULT-107 GREEK AND ROMAN DRAMA (3 Credits)
A study of the comedies and the tragedies of the Greeks and Romans.

CULT-201 LATIN & GREEK ETYMOLOGY (3 Credits)
A study of the derivations of English words from Latin and Greek.

CULT-202 LATIN AND GREEK ETYMOLOGY (3 Credits)
A study of the derivations of English words from Latin and Greek.

CULT-205 GRK LITERATURE IN TRANSLATION (3 Credits)
Selections from the greatest works of the Greek writers are read in translation. Works may be studied according to literary genres or eras.

CULT-206 LATIN LIT. IN TRANSLATION (3 Credits)
Selections from the greatest works of the Latin writers are read in translation. Works may be studied according to literary genres or eras.

Classics, Minor

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CULT-101</td>
<td>GREEK CIVILIZATION ¹</td>
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</tr>
<tr>
<td>CULT-102</td>
<td>ROMAN CIVILIZATION</td>
<td>3</td>
</tr>
<tr>
<td>CULT-103</td>
<td>GREEK AND ROMAN MYTHOLOGY ¹</td>
<td>3</td>
</tr>
<tr>
<td>LAT-101 &amp; LAT-102</td>
<td>ELEMENTARY LATIN and ELEMENTARY LATIN II ²</td>
<td>6</td>
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<tr>
<td>CULT-205</td>
<td>GRK LITERATURE IN TRANSLATION</td>
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<tr>
<td>CULT-206</td>
<td>LATIN LIT. IN TRANSLATION</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

¹ CULT-101 and CULT-103 will be offered every fall semester. CULT-102 will be offered every spring semester
² LAT-101 will be offered every fall semester. LAT-102 will be offered every spring semester.

Latin, Minor

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAT-101</td>
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<tr>
<td>LAT-102</td>
<td>ELEMENTARY LATIN II</td>
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</tr>
<tr>
<td>LAT-201</td>
<td>INTRO. LAT.AUTHORS OF REPUBLIC</td>
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</tr>
<tr>
<td>LAT-202</td>
<td>INTRO. LAT. AUTHORS OF EMPIRE</td>
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</table>

Select three 300-level Latin courses

Total Credits 21

One 300-level course will be offered every semester. Generally, the work(s) of a poet will be studied in the Fall semester, and the work(s) of a prose writer in the Spring semester.

A student who has successfully completed 4 years (or more) of high school Latin will receive a waiver for LAT-101, LAT-102, LAT-201, and LAT-202. A student with this Latin background will thus need to take only the three, 300-level courses to complete the requirement for the minor.
DEPARTMENT OF COMPUTER
SCIENCE

Department Chair: David Hilmey, Ph.D.

Faculty
C. Bopp, Ph.D.
R. Alshinina, Ph.D.
A. Foerst, Ph.D.
A. Sarrafzadeh, Ph.D.

The computer science major prepares students for entry-level software engineering, networking, database application development, and web administration positions as well as for advanced study at the graduate level. Most graduates enter the workforce as computer professionals upon graduation; one or two per year elect to pursue study at the graduate level.

The department follows the Association for Computing Machinery’s guidelines for undergraduate computer science education. The first two courses introduce object-oriented programming using Python. The third course focuses on computer organization and how programs are executed on hardware. The fourth course introduces some of the major trends in software development.

The department offers a variety of upper-division courses that permit students to explore different areas of the discipline and to find the ones in which they are most interested. Upper-division course offerings include courses in the areas of web development, database systems, computer networks, computer graphics, user interface design, artificial intelligence, robotics, and operating systems, among others. The department maintains two computer labs to support the curriculum. The Software Development Laboratory supports the first three courses in the major sequence and two upper-division courses.

In addition, our Cybersecurity program overlaps well and has its foundation in Computer Science—allowing many students to minor or double major in these two related fields. In addition, our Cybersecurity program overlaps well and has its foundation in Computer Science—allowing many students to minor or double major in these two related fields.

Together, the computer science faculty has published numerous articles, textbooks, and received successful National Science Foundation grants. With the addition of practicing professionals, the program faculty provides breadth and depth in the foundational, as well as emerging areas of Computer Science. Students often participate in research projects with faculty supervision. Students have co-authored papers with faculty members and have developed some of the courseware currently used in the undergraduate curriculum.

- Computer Science, BS (p. 220)
- Computer Science, Minor (p. 221)
- Cybersecurity, BS (p. 221)

Computer Science (CS)

CS-COMP Comprehensive Exam (0 Credits)
Restrictions: RG.86+
CS-234 PROGRAMMING METHODOLOGIES (4 Credits)
A study of several modern approaches to practical software development at both a high and low level of abstraction. Students will become familiar with the Client-Server and Event-Driven models of software design, with elementary design patterns such as Adapter and Model-View-Controller that support these models and with techniques such as test-driven design and refactoring that aid in the implementation of these ideas. The course is primarily project-based and includes three lecture hours and one two-hour laboratory session each week.
Prerequisite(s): Take CS-132

CS-243 DATABASE MGMT SYSTEMS (4 Credits)
An introduction to database management systems, including database design and application development. Different database models are introduced, with emphasis on the relational model. The theoretical principles underlying the design of a database and the physical storage of data and its integrity are covered. The laboratory component is used to design and implement a real-world database application that illustrates theory.
Prerequisite(s): Take CS-132

CS-244 DATA-DRIVEN WEB APPL DEV (3 Credits)
Introduction to the design and implementation of a database-driven application using a tool such as Microsoft ASP.Net. Students will design and implement an e-commerce application based upon a SQL server database. The course presupposes familiarity with relational database design and application development. Topics include Visual Studio.Net tools for managing data sources, data controls for populating Web pages, data presentation tools, configuring, deploying and trouble-shooting an ASP.Net application. Students will build a data-driven Web site.
Prerequisite(s): Take CS-132

CS-254 COMPUTER NETWORKS (4 Credits)
A study of computer networks based on the OSI model of a layered network architecture. The TCP/IP protocol suite is used to illustrate network protocols. The course includes an overview of local area networks, routing algorithms, and network applications. The course consists of three lecture hours and one two-hour laboratory per week. The laboratory component provides experience in network programming using sockets.
Prerequisite(s): Take CS-132

CS-255 WEB SERVER MANAGEMENT (3 Credits)
Introduction to the design, deployment and maintenance of a web server. Students will learn how to set up, deploy, secure and manage a web server using both IIS and Apache. Students will act both as server managers and web server hackers. Topics include network protocols, server setup, server performance, server security, and server maintenance.
Prerequisite(s): Take CS-254

CS-256 COMPUTER GRAPHICS (4 Credits)
A survey of two- and three-dimensional computer graphics including graphics standards, graphics systems at both the hardware and software levels, and the implementation of graphics techniques for rendering an image. The course focuses on the architecture of computer graphics systems, and students will be expected to program within such systems as part of the course work. The course includes three lecture hours and one two-hour laboratory period per week.
Prerequisite(s): Take CS-132 AND MATH-208 or MATH-151

CS-257 USER INTERFACE DESIGN (4 Credits)
This course will expose the student to a wide variety of material related to the design of user interfaces. Command-time, batch, and event-driven models of user interaction will be discussed as well as presentation styles, models of communication and cognitive processes, and the social implications of user interface design. Students will study the theory of user interface design in class and will put that theory into practice through laboratory exercises and team projects.
Prerequisite(s): TAKE CS-132

CS-331 PRIN. OF PROGRAMMING LANGUAGES (3 Credits)
A study of the fundamental principles around which programming languages are designed. Topics include language specifications, syntax and semantics, data types, control statements, support for abstraction, and program organization. Students will be exposed to issues involving compilation, interpretation, lexical analysis, and parsing as well as to languages in each of the major paradigms. The course includes three lecture hours per week.
Prerequisite(s): Take CS-333

CS-332 THEORY OF COMPUTATION (3 Credits)
A mathematical treatment of formal language theory and how it relates to computer science. Topics include automata, grammars, Turing machines, computability, and computational complexity. The course includes three lecture hours per week.
Prerequisite(s): Take CS-333

CS-333 ALGORITHMS & DATA STRUCTURE (3 Credits)
A study of abstract data types including trees, hash tables, and graphs. The course will study each of these in the context of the analysis of algorithms and algorithm design techniques in general. Intractable and unsolvable problems and their implications will also be covered.
Prerequisite(s): Take CS-132 MATH-208

CS-341 ARTIFICIAL INTELLIGENCE (4 Credits)
A laboratory course that implements some of the artificial intelligence systems discussed in CS 141. The course is designed for computer science majors wishing to take CS 141 for credit towards the major. It must be taken at the same time as CS 141. The prerequisite is enforced strictly.
Prerequisite(s): Take CS-132

CS-342 ROBOTICS & COMPUTER VISION (3 Credits)
The course introduces the design of autonomous robots that are capable of carrying out tasks that involve intelligence. Higher-level intelligent behavior is built upon low-level algorithms that govern robot-environment interaction. Tasks examined are navigation, planning, object manipulation, and object recognition using 2-dimensional vision. Behavior control algorithms are developed for and tested on Khepera robots, miniature robots designed for this purpose.
Prerequisite(s): Take CS-333

CS-346 OPERATING SYSTEMS (4 Credits)
A study of modern multiprogrammed operating systems including system structure, concurrency, process scheduling and control, memory management, file systems, and system performance. The course consists of three lecture hours and on two-hour laboratory per week. The laboratory component provides experience in concurrent programming using Java threads and in system level programming using C in a UNIX environment.
Prerequisite(s): Take CS-231

CS-346H OPERATING SYSTEMS (HONORS) (4 Credits)
Prerequisite(s): Take CS-231
Restrictions: RG.HON
CS-354 INTRO INTERNET SYS. SECURITY (4 Credits)
Introduction to network security auditing. Students will learn how to perform the different phases of an audit, including discovery and penetration, as well as how to prevent hackers from controlling your network. This course introduces various tools to help students in the auditing process. Students will be exposed to international standards, along with time-tested methods for auditing a network efficiently, and they will be able to use specific, practical tools for counteracting network attacks. Finally, they will be able to analyze all findings and make informed recommendations for establishing the best security possible in a given scenario.
Prerequisite(s): Take CS-254

CS-380 SPECIAL TOPICS IN COMP. SCIENCE (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132

CS-380A SP TOPICS IN COMP. SCIENCE (3 Credits)
Prerequisite(s): Take CS-333

CS-380B SP TOP CRYPTOLOGY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Corequisite(s): Take CS-132 & MATH-208

CS-380C SP TOP CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132 & CSIA-101

CS-380D SP TOP MACHINE LEARNING (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132

CS-380E SP TOP WIRELESS SENSOR NETWORKS (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): Take CS-132

CS-442 AL AND ROBOTICS (3 Credits)
Faculty directed independent study in artificial intelligence or robotics.

CS-446 OP SYS (3 Credits)
Faculty directed independent study in operating systems.
Prerequisite(s): Take CS-346

CS-454 Networks (1-3 Credits)
Faculty directed independent study in computer networks.

CS-456 COMPUTER GRAPHICS PROJECTS (3 Credits)
Faculty directed independent study in computer graphics.

CS-457 ADVANCED USER INTERFACE PROJECTS (3 Credits)
Faculty directed independent study in user interface design.
Prerequisite(s): Take CS-257

CS-480A SP TOP FORMAL LANG. THEORY (3 Credits)

CS-490 SOFTWARE ENGINEERING (3 Credits)
The course provides an overview of software requirements analysis, the software design process, verification and validation, software maintenance, and documentation. A major component of the course is a project that provides experience in the analysis and design of a software product using an object-oriented methodology.
Corequisite(s): Take CSL-490
Restrictions: RGM.129

CS-491 INTERNSHIP IN COMPUTER SCI. (1-3 Credits)
This program provides students with on-the-job training and experience which is not obtainable in classroom situations. The student is expected to secure a full-time position which involves significant work in an area of computer science. Each internship is individually arranged, subject to the approval of the computer science faculty.
Prerequisite(s): Take CS-231 AND CS-234

CS-492 IND. STUDY IN COMP. SCIENCE (1-3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492A Ind. Study in Comp Science (1-3 Credits)
Prerequisite(s): CS-232

CS-492C IND ST: RESEARCH (1-3 Credits)
Prerequisite(s): CS-232

CS-492D IND. ST. SECURITY OPERATIONS CENTER (1-3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492E IND ST: RESEARCH & IMPLEMENTATION OF A SOC (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492F DATABASE MANAGEMENT (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492G IND ST: INTRO INTERNET SYS SECURITY (4 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492J IND ST: NETWORK SECURITY (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-492K IND ST: HONEYPOTS & HONEYNETS (3 Credits)
Independent study or project in some area of computer application or computer science under supervision of computer science faculty.

CS-495 Technical Consulting in the Community (3 Credits)
This course provides students with the opportunity to experience a technical consulting role with a local non-profit community organization. The student will apply professional and communication skills as he/she works with a community partner as a technical consultant. The student will spend at least three hours a week on-site at the organization and will write and present consulting reports based on his/her experience.
Prerequisite(s): Take CS-132
Restrictions: RGC.105

Computer Science Lab (CSL)

CSL-101 BEAUTY & JOY OF COMPUTING LAB (0 Credits)
Corequisite(s): Take CS-101(1508)

CSL-127 COMPUTER APPL TO SCI LAB (0 Credits)

CSL-128 GEOG. INFO. SYSTEMS LAB (0 Credits)
Labs will familiarize students with the management and analysis of spatial data. Labs will familiarize students with the management and analysis of spatial data using ArcView GIS software. A brief introduction to outdoor use of global positioning systems will occur at the end of the semester. Class and labs will emphasize group projects of practical and local application.
Cybersecurity (CYB)

CYB-101 INTRODUCTION TO INFORMATION SECURITY (3 Credits)
This course is an elective to introduce students in any major to the Information Security field. Students will be introduced to main domains of Information Security and Information Assurance as represented in the COMPTIA Certification exam Security Plus. Upon successful completion of this course as documented through writing, objective testing, case studies, laboratory practice, and/or classroom discussion, the student will be able to: Define information security and explain why it is important Identify types of attackers, analyze vulnerabilities, attacks and suggest appropriate defenses. Describe various software security applications and vulnerability scanning tools. Explain the different types of logical and physical access control. Understand and explain authentication, authorization and accounting as it relates to computer security. Define and explain risk, risk management, and penetration testing.

CYB-102 ETHICAL & PROFESSIONAL SKILLS IN CYBERSECURITY (3 Credits)
This course introduces students to project management and risk assessment in Cybersecurity as well as the ethical questions surrounding these skills. It provides a comprehensive understanding of the principles and processes of risk management and how to apply these to a variety of scenerios. The course also prepares students for two professional licenses in Risk Assessment and Project Management.

CYB-180 SPECIAL TOPICS IN CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CS-132

CYB-333 INFORMATION SECURITY (3 Credits)
This course is designed to introduce students to the development of information security policies and planning. Information systems, and the tools and techniques needed to establish, monitor and maintain information security will be examined.
Prerequisite(s): TAKE CS-131 CYB-101

CYB-355 COMPUTER CRIME (3 Credits)
The media reports terrorist attacks on computer centers, electronic fraud on international funds transfer networks, viruses and worms in software and email, corporate espionage on business networks, and crackers breaking into systems on the Internet. Computer criminals are becoming ever more technically sophisticated, and it’s an increasing challenge to keep up with their methods. This course will focus on computer crimes, what they are, how to prevent them, and how to detect, investigate and prosecute them if they do occur. Computer crime laws will also be covered. Other topics will include evidence collection during a computer crime investigation as well as the preparation and execution of a search warrant.
Prerequisite(s): TAKE CS-254

CYB-360 COMPUTER FORENSICS (3 Credits)
A police officer makes a gruesome discovery, a body is found. Located near the corpse is a cellular telephone, a digital camera and a computer. The officer is unsure on how to proceed. On the other side of town, a search warrant of a business is being conducted. A server and the computers networked to it are believed to contain evidence of a crime. The detectives are trying to decide on what to seize and how to take it. More and more crimes involve digital evidence that requires seizing, imaging and analysis. The evidence needs to be reviewed for possible investigative leads and for possible presentation in court. This course will focus on how to properly seize, image and examine digital evidence. It will include creating and verifying the duplicate image of digital evidence, analyzing the data to locate evidence, and recovering evidence.
Prerequisite(s): Take CYB-355

CYB-365 INVESTIGATIVE SOFTWARE TOOLS (3 Credits)
Intelligence led policing and intelligence based investigative strategies are coming to the forefront of law enforcement. Private industry is also becoming increasingly aware of the strategic intelligence model as it applies to corporate planning, competitive practices and maintaining corporate integrity. This course is designed to introduce students to several key software tools that are widely used and considered essential for intelligence research and criminal investigations. These software tools will include, but not be limited to, Analyst Notebook, iBase, and Idea. Students will be given a thorough understanding of how to apply these tools in the course of the intelligence process and/or during the course of a criminal investigation. The course will culminate with students preparing a project using all the software tools introduced during the course.

CYB-380 SPECIAL TOPICS IN CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CS-132
CYB-380A SP TOP IN CYBERSECURITY: ADVANCED CYBERSECURITY (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CS-380C

CYB-380B SP TOP IN CYBERSECURITY: CYBERSECURITY INVESTIGATION (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CYB-101

CYB-380C SPECIAL TOPICS: LAW & POLICIES INVESTIGATION (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CYB-101

CYB-380D SP TOP THREAT HUNTING FOR MS WINDOWS (3 Credits)
An intensive study of an aspect of computer science not fully treated in a regularly scheduled course.
Prerequisite(s): CYB-101

CYB-410 INTRO TO CRYPTOGRAPHY (3 Credits)
In this course, the key terms, concepts and principles of cryptography are defined and explained. Application of cryptographic techniques to ensure confidentiality, integrity, authentication, access control, and non-repudiation issues will also be covered. Other topics will include the history of classical cryptographic and cryptanalytic techniques, modern symmetric and asymmetric algorithms, Federal Information Processing Standard (FIPS) algorithms, random and pseudo-random number generators and cryptographic hash functions. Issues involving cryptographic application at various OSI layers in networking communications will also be discussed.
Prerequisite(s): MATH-207 CS-254

Information Technology (IT)

IT-103 INTRO TO DOCUMENT CREATION (1 Credit)
Using word processing software, students will produce written documents, including letters, memos, multi-page reports, and newsletters. Note: IT 103, 104, and 105 may not be taken for credit after any other 3-credit computer course.
Corequisite(s): IT-104 OR IT-105 COMPLETED

IT-104 INTRO TO SPREADSHEETS (1 Credit)
Students will create spreadsheets to facilitate decision-making and illustrate numeric data using relative and absolute addresses, formulas, and system functions. Students will create tables to graphically present information in a spreadsheet and will create integrated documents using word processing and spreadsheet applications. Prerequisite: IT 103 or demonstration of proficiency. Note: IT 103, 104, and 105 may not be taken for credit after any other 3-credit computer course.
Corequisite(s): IT-103 OR IT-105 COMPLETED

IT-105 INTRO TO DATABASES (1 Credit)
Students will build and query a database and create forms and reports from database tables. Students will create integrated documents using word processing and database applications. Prerequisites: IT 103 and IT 104 or demonstration of proficiency. Note: IT 103, 104 and 105 may not be taken for credit after any other 3-credit computer course.
Corequisite(s): IT-103 AND IT-104

IT-120 INTRO TO COMPUTERS (3 Credits)
An introduction to the components and functions of a computer system, the Internet, and applications software. Students become familiar with the Internet and the campus e-mail program. Word processing. Web creation, spreadsheet, database, and presentation applications are used to provide practical experience using a personal computer. Note: IT 120 includes material from IT 103, 104, and 105. Students having completed one of those courses should not enroll in IT 120. Likewise, students who have completed a computer science course numbered 131 or higher should not enroll in IT 120.
Restrictions: RG.BUS

IT-123 USER CENTERED WEB SITE DESIGN (3 Credits)
An introduction to the creation of effective web pages and sites. Topics related to effective site creation include color, typography, layout and multimedia. Students will create web pages directly by producing html and css documents using a personal computer.

IT-192 IND STUDY IN INFORMATION TECH (1-3 Credits)
Independent study or project in some area of introductory computer applications or computer science faculty.

IT-220 DATA CRUNCHING IN BUSINESS (3 Credits)
An introduction to data manipulation in business, Microsoft EXCEL or an equivalent spreadsheet program, its application to business and accounting problems, and an introduction to data analysis and Pivot tables.

IT-280 SPECIAL TOPICS IN IT (1-3 Credits)
An intensive study of how information technology can be used in various fields. Students will be exposed to applications in both a theoretical and hands-on manner. Although there is no separate laboratory section, students will complete substantial amounts of their work using software applications.

IT-280A SP TOP: EXCEL IN BUSINESS (3 Credits)
An intensive study of how information technology can be used in various fields. Students will be exposed to applications in both a theoretical and hands-on manner. Although there is no separate laboratory section, students will complete substantial amounts of their work using software applications.

Restrictions: RG.BUS

IT-280B SPECIAL TOPICS IN IT: APP DEVELOPMENT (1-3 Credits)
An intensive study of how information technology can be used in various fields. Students will be exposed to applications in both a theoretical and hands-on manner. Although there is no separate laboratory section, students will complete substantial amounts of their work using software applications.

Computer Science, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-131</td>
<td>COMPUTER SCIENCE I</td>
<td>37-40</td>
</tr>
<tr>
<td>&amp; CSL-131</td>
<td>and COMPUTER SCIENCE I LAB</td>
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</tr>
<tr>
<td>CS-132</td>
<td>COMPUTER SCIENCE II</td>
<td></td>
</tr>
<tr>
<td>&amp; CSL-132</td>
<td>and COMPUTER SCIENCE II LAB</td>
<td></td>
</tr>
<tr>
<td>CS-231</td>
<td>COMPUTER ORGANIZATION</td>
<td></td>
</tr>
<tr>
<td>&amp; CSL-231</td>
<td>and COMPUTER ORGANIZATION LAB</td>
<td></td>
</tr>
<tr>
<td>CS-234</td>
<td>PROGRAMMING METHODOLOGIES</td>
<td></td>
</tr>
<tr>
<td>&amp; CSL-234</td>
<td>and PROGRAMMING METHODOLOGIES LAB</td>
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<tr>
<td>CS-331</td>
<td>PRIN. OF PROGRAMMING LANGUAGES</td>
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</tr>
<tr>
<td>CS-333</td>
<td>ALGORITHMS &amp; DATA STRUCTURE</td>
<td></td>
</tr>
</tbody>
</table>
Select one 3 credit course numbered 491 or higher
Select three Computer Science electives

Mathematics

MATH-151  CALCULUS I
MATH-207  DISCRETE MATHEMATICS I
MATH-208  DISCRETE MATHEMATICS II

General Education Requirements (p. 161)

Foreign Language

General Electives

Total Credits 120

1 All three electives must be computer science courses between 240 and 380. CS-101 may count as an elective only if taken before CS-131. It is strongly recommended that majors complete five electives. With the permission of the student’s adviser and the department chair, one of the electives may be fulfilled by a course offered by a department other than Computer Science that has been approved by the department. Approved courses currently are MATH-431 and MATH-432 and PHYS-451.

2 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Cybersecurity, BS

Department Chair: Hossein Sarrafzadeh, Ph.D.

Students in the cybersecurity program will learn the appropriate tools, techniques, policies, and technologies required to identify, analyze, mitigate, and communicate the risks of computer systems. The major helps prepare students for careers as information system security professionals.

Mathematics

MATH-151  CALCULUS I
MATH-207  DISCRETE MATHEMATICS I

General Education Requirements (p. 161)
Cybersecurity, Minor

For non-majors, the following courses constitute a minor in Cybersecurity:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CYB-101</td>
<td>INTRODUCTION TO INFORMATION SECURITY</td>
<td>3</td>
</tr>
<tr>
<td>CS-254</td>
<td>COMPUTER NETWORKS</td>
<td>4</td>
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</table>

Select 4 courses of electives chosen from the below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CS-101</td>
<td>Beauty &amp; Joy of Computer Science</td>
<td></td>
</tr>
<tr>
<td>&amp; CSL-101</td>
<td>and BEAUTY &amp; JOY OF COMPUTING LAB</td>
<td></td>
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<tr>
<td>CS-131</td>
<td>COMPUTER SCIENCE I</td>
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<tr>
<td>&amp; CSL-131</td>
<td>and COMPUTER SCIENCE I LAB</td>
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</tr>
</tbody>
</table>

Total Credits: 124

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1. Indicates courses taken via distance learning
2. The two cybersecurity electives must be taken from the following: CS-243, CS-255, CS-346 CYB-360, CYB-365, CYB-410, CS-492, and SOC-325. CS-101 may count as an elective only if taken prior to CS-131.
3. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

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<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
<th>Spring Credits</th>
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<tbody>
<tr>
<td>CS-131 &amp; CSL-131</td>
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<tr>
<td>CYB-101 &amp; MATH-207</td>
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<td>ENG-101 &amp; SBU-101</td>
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<thead>
<tr>
<th>Second Year</th>
<th>Credits</th>
<th>Spring Credits</th>
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</thead>
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<tr>
<td>CS-231 &amp; CSL-231</td>
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<td>4</td>
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<tr>
<td>MATH-151 (General Education Requirement) &amp; General Education Requirement</td>
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<td>General Education Requirement</td>
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<tr>
<td>General Elective</td>
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<thead>
<tr>
<th>Third Year</th>
<th>Credits</th>
<th>Spring Credits</th>
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</thead>
<tbody>
<tr>
<td>CYB-333 &amp; CS-354</td>
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<tr>
<td>Cybersecurity Elective</td>
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<tr>
<td>General Education Requirement</td>
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<td>General Elective</td>
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<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Credits</th>
<th>Spring Credits</th>
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<tbody>
<tr>
<td>CS-490 &amp; CSL-490</td>
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<tr>
<td>Cybersecurity Elective</td>
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<tr>
<td>General Education Requirement</td>
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<tr>
<td>General Electives</td>
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</tr>
</tbody>
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Total Credits: 120

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CS-101 may count as an elective for the minor only if taken before CS-131. Students who plan to enter the workforce as information technology professionals should take at least two courses beyond the minor requirement.
DEPARTMENT OF ENGLISH

Department Chair: Matt King, Ph.D.

Faculty
Daniel Ellis, Ph.D.
Kaplan Harris, Ph.D.
Matt King, Ph.D.
Lauren Matz, Ph.D.
Sara Nicholson, Ph.D.
Jeremy Smyczek, Ph.D.
Sara Sullivan, Ph.D.
Megan Walsh, Ph.D.

The Department of English offers courses in the literature of England, the United States, and other English-speaking nations, as well as in critical, creative, and professional writing. English courses, with exceptions noted below, are open to qualified students whether or not they are majors or minors. The chief purpose of concentration in English is to enable students to understand, appreciate, and evaluate the significant literature in the English language as well as to develop students’ abilities in effective written, oral, and digital communication in English. The department takes pride in the success its graduates have achieved.

- English, BA (p. 226)
- English, Minor (p. 226)

English (ENG)

ENG-COMPS COMPREHENSIVES UG (0 Credits)
ENG-ELEC ENGLISH ELECTIVE (4 Credits)

ENG-100 FUNDAMENTALS OF WRITTEN ENGLISH (3 Credits)
A study of conventions and skills involved in college-level writing. Course assignments emphasize academic argument and discourse as well as the construction of effective sentences, paragraphs, and papers. Required of students needing further preparation to succeed in ENG 101. Not open to students who have successfully completed ENG 101 or who have had ENG 101 waived.

ENG-101 WRITING I (3 Credits)
A composition course emphasizing writing foundations, including the development of a writing process with attention to generating content and addressing concerns of structure, style, syntax, and mechanics. Course assignments emphasize critical reading, writing, and argumentation skills, as well as professional and oral communication.

ENG-102 Writing II (3 Credits)
A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication.
Prerequisite(s): ENG-101 or CLAR-110

ENG-103 WRITING FOR LITERATURE (3 Credits)
A course designed to further develop writing skills and critical abilities in literary studies.

ENG-104 HONORS WRITING II (3 Credits)
A composition course emphasizing writing as academic discourse, with attention to academic argumentation and expectations for research, structure, and style. Course assignments emphasize intensive research and disciplinary conventions, as well as professional and digital communication. This course is designed for students in the Honors Program. It achieves the same objectives and satisfies the same requirements as ENG 102: Writing II. At the discretion of the instructor, this course may do one or more of the following: cover additional topics, cover topics in more depth, require additional scholarly assignments beyond simply writing an extra paper.
Prerequisite(s): ENG-101 or CLAR-110
Restrictions: RG.HON

ENG-201 ENGLISH LITERATURE I (3 Credits)
A survey course of the chief periods of English literature from the beginnings to 1800. Major literary figures and movements will be emphasized.

ENG-202 ENGLISH LITERATURE II (3 Credits)
A continuation of ENG 201, which is not, however, a prerequisite. This course carries the survey of the major figures and movements in the history of English literature from 1800 to the present.

ENG-203 ENGLISH LITERATURE III (3 Credits)
A course covering English literature to 1800. This is required for all majors in English.

ENG-204 ENGLISH LITERATURE IV (3 Credits)
This is a continuation of English 203, which is not, however, a prerequisite, and is an intensive study of English literature, 1800 to the present. This is required for all majors in English.

ENG-210 INTRO TO LIT: NARRATIVE (3 Credits)
An introductory study of the short story and the novel. Emphasis is on the development of critical ability to analyze the narrative in terms of its basic elements: plot, characterization, point of view and symbolic structure.

ENG-211 INTRO TO LIT: POETRY (3 Credits)
An introductory study of poetry. Emphasis is on the development of critical ability to analyze various forms of poetry in terms of sound elements, imagery, figures of speech and symbolic structure.

ENG-212 INTRO. TO LITERATURE: DRAMA (3 Credits)
An introductory study of drama. Emphasis is on the development of critical ability to analyze plays in terms of their basic elements: plot, characterization, tragic and comic structuring and dialogue.

ENG-213 POPULAR LIT. (3 Credits)
Focused study in reading popular culture texts, organized around a single theme, period, or medium.

ENG-213B POPULAR LIT. THE AGE OF SHAKESPEARE: A CULTURAL HISTORY (3 Credits)
Analysis of several types of popular literature: the western, the mystery story, science fiction, sports literature, with a consideration of the relationship between popular literature and the literature of high culture.

ENG-220 AMERICAN LITERATURE I (3 Credits)
A single semester survey of the outstanding literary figures of America from the beginnings to naturalism. Required for all English majors.

ENG-221 AMERICAN LITERATURE II (3 Credits)
Naturalism and Beyond. A study in Modern American writing emphasizing fiction (some drama) and including the works of Norris, Dreiser, Wharton, Lewis, Hemingway, Faulkner, Fitzgerald, O’Neill, Steinbeck, Miller, Updike and Bellow. Required for all English majors.
ENG-230 PUBLIC SPEAKING (3 Credits)
A course stressing the practical application of principles of effective speaking to various rhetorical situations. Course assignments emphasize professional and advanced academic presentation and oral communication.

ENG-240 INTRO TO ENGL LINGUISTICS (3 Credits)
An introduction to the study of the English language; its origin, structure, function, and development; the growth of vocabulary; usage levels.

ENG-250 ADV ORAL & WRITTEN COMM. (3 Credits)
A course grounded in the practical application of principles of effective oral and written communication in various rhetorical situations. Course assignments emphasize professional and advanced academic writing and presentations with an emphasis on disciplinary analysis and conventions.
Prerequisite(s): Take ENG-102

ENG-260 Professional Communication (3 Credits)
A course grounded in the practical application of principles of effective written, visual, and digital communication in professional contexts. Course assignments emphasize professional documents and genres, professional and disciplinary research, multimodal composition, and rhetorical concerns related to purpose, audience, and context.
Prerequisite(s): Take ENG-102

ENG-270 CREATIVE WRITING NARRATIVE (3 Credits)
A course designed to develop basic techniques of narrative writing: character development, plot construction, structuring, point of view and time-space sequences. Emphasis will be placed on the short narrative, although some structural analysis of the novel will be studied.

ENG-270B ADV CREATIVE WRIT: NARRATIVE (3 Credits)
Prerequisite(s): Take ENG-270

ENG-271 CREATIVE WRITING: POETRY (3 Credits)
This course will explore poetry as a medium. Each student will write poems, and the work of all students will be studied in class and in conference with the instructor. The work of published poets will be used regularly to suggest possibilities and directions in both form and content.

ENG-271B ADV CREATIVE WRIT: POETRY (3 Credits)
Prerequisite(s): Take ENG-271

ENG-272 CREATIVE WRITING: DRAMA (3 Credits)
A course designed to develop basic techniques of playwriting: plot construction, character development through dialogue and action, scene development and staging. Emphasis will be on one-act plays although structural analysis of longer plays will be made. Works of both students and established playwrights will be studied.

ENG-275 RHEtorical CRITICISM & THEORY (3 Credits)
This class situates writing in the rhetorical tradition and thus foregrounds writing as a public and persuasive practice. Possible areas of consideration include the history of rhetoric, writing as public discourse, rhetorical theory, visual rhetoric, and topics in rhetoric. Student writing will focus on analysis, argumentation, and persuasion.

ENG-310 ENGLISH LIT. TO 1485 (3 Credits)
Consideration of the principal works in early and medieval English literature, beginning with Beowulf and Bede, and including Piers Plowman, Troilus and Criseyde, Sir Gawain, as well as the beginning of English drama. 3

ENG-320 ENG RENAISSANCE LIT 1485-1603 (3 Credits)
A study of non-dramatic English literature from the accession of Henry VII to the death of Elizabeth. Topics include the development of literary genres, continental and classical backgrounds, the neoplatonic tradition, humanism and the argumentative structure of controversial religious and political prose. Spenser’s Faerie Queene receives close attention.

ENG-321 ENG LITERATURE 1603-1660 (3 Credits)
A study of non-dramatic English literature from the accession of James I to the restoration of the monarchy in the person of Charles II. The course devotes equal attention to poetry and prose. The poetry is examined in terms of the traditions established by Donne, Jonson and Spenser. The prose is analyzed thematically and stylistically with attention being given to new prose genres and the four major seventeenth-century prose styles: Ciceronian, Senecan, Baroque and ‘Scientific.’

ENG-325 WRITING IN DIGITAL ENVIRONMENTS (3 Credits)
This course will give students experience writing in a range of digital spaces. Possible writing environments and technologies include blogs, wikis, websites, videos, podcasts, social media platforms, interactive and electronic fiction, video games, and virtual worlds. Students will develop skills and writing practices related to analysis, argumentation, creative writing, media production, design, editing, and coding. At the same time, the course foregrounds writing in specific digital environments and asks students to consider how these contexts shift and shape the act of writing.

ENG-326 DIGITAL RHETORIC (3 Credits)
This course will help students think critically about the ways in which digital technologies shape rhetorical and expressive practices. Possible areas of consideration include electronic literature, hypertext fiction, digital poetry, conversations in digital humanities, public sphere studies, the virtual, video games/procedural rhetoric, electry, platform studies, and critical code studies. The course may allow students to practice writing in different digital spaces, but it foregrounds the writing or more traditional analysis papers focusing on digital rhetoric technologies, practices, and texts.

ENG-330 LIT OF RESTORATION & 18TH CENT (3 Credits)
A study of non-dramatic English literature from the accession of Henry VII to the death of Elizabeth. Topics include the development of literary genres, continental and classical backgrounds, the neoplatonic tradition, humanism and the argumentative structure of controversial religious and political prose. Spenser’s Faerie Queene receives close attention.

ENG-331 THE ROMANTIC MOVEMENT I (3 Credits)
Survey of the works of the major writers of the first half of the British Romantic period (Charlotte Smith, Wordsworth, Coleridge, Byron, Shelley, Keats) with attention to their place in the Romantic Movement and their relationship to social and cultural thought of the time.

ENG-340 THE ROMANTIC MOVEMENT (3 Credits)
Survey of the works of the major writers of the British Romantic period (writers born after 1775), with focus on the major works for Lord Byron, Percy Shelley, John Keats and Mary Shelley.

ENG-350 CREATIVE WRT: NARRATIVE II (3 Credits)
This course focuses on extensive fiction writing of short stories, coupled with reading and discussion of short fiction and novels directed at developing the craft of fiction. Students develop their writing through multiple workshops and revisions of short fiction directed at preparing work for presentation and publication.
Prerequisite(s): Take ENG-270
ENG-351 CREATIVE WRITING: POETRY II (3 Credits)
Advanced study of the sources, modes, and strategies of poetry, with attention given to sequences of poems and to the development of a personal poetic voice.
Prerequisite(s): Take ENG-271

ENG-352 VICTORIAN POETRY (3 Credits)
A survey of the English poets who wrote between 1830 and 1900, excluding Tennyson and Browning.

ENG-360 MODERN POETRY (3 Credits)
A study of English and American poetry from 1900-1945, with the close attention to Yeats, Eliot, Thomas, Williams and Stevens.

ENG-363 DRAMA 1850 TO THE PRESENT (3 Credits)
A study of European as well as English and American dramatists from the mid-nineteenth century through the theatre of the absurd.

ENG-365 CONTEMPORARY BRIT & AMER LIT (3 Credits)
Structural approach to British and American literature since 1945. This course deals with the poetry of Olson, Duncan, Creeley, Roethke, Ginsberg and Dickey, among others.

ENG-366 CONTEMPORARY BRIT/AMER LIT. (3 Credits)
Structural approach to British and American Literature since 1945. This course is concerned with the fiction of Mailer, Malamud, Pynchon and Barth, among others.

ENG-370 ENGLISH NOVEL 1740-1850 (3 Credits)
The emergence and development of the English novel from the beginnings with Defoe, Richardson, and Fielding to the Victorian novels of the Brontes, Thackeray and Dickens.

ENG-371 ENGLISH NOVEL 1850-1950 (3 Credits)
The beginnings of the great twentieth century themes of isolation and alienation as reflected in the novels of Hardy, Conrad, Lawrence, Joyce and others.

ENG-375 AMERICAN NOVEL TO 1865 (3 Credits)
A study of the development of the American novel from its inception to the end of the Civil War.

ENG-376 AMERICAN NOVEL, 1865-1920 (3 Credits)
A critical study of the American novel from the beginnings of the realistic movement to the end of World War I with emphasis on representative works.

ENG-377 WOMEN IN LITERATURE (3 Credits)
In-depth critical investigation of literature written by or about women. Concentration on works from the eighteenth, nineteenth and twentieth centuries. Focus on fiction.

ENG-379 AFRICAN AMERICAN LITERATURE (3 Credits)
This course provides students with a survey of major works by African American novelists, poets, dramatists, and essayists from the 18th Century through to the present day. The course will pay particular attention to how African American writers present themselves as authors and their interactions with and revisions of a white American literary tradition. By the end of the course, students will have examined the literature of American slavery, Reconstruction, the Harlem Renaissance, the Black Arts Movement, and contemporary black culture.

ENG-380 WORLD LITERATURE (3 Credits)
A study of selected masterpieces from non-English literatures, with special emphasis on those which are central to the culture of Western Europe.

ENG-390 LITERARY THEORY (3 Credits)
A study of major theoretical problems in literature through selected literary works. The course will address topics in the following areas: literature and the other arts, the function of literature in society, structural principles in poetry, narrative and drama, and levels of meaning in literary interpretation.

ENG-391 LITERARY CRITICISM (3 Credits)
A study of major critical approaches to literature through selected works of poetry, narrative and drama. The course will survey techniques in the following traditional and contemporary approaches: historical, psychological, archetypal, feminist and post-structuralist as well as the basic identities of classical, romantic and modern literary movements.

ENG-410 CHAUCER (3 Credits)
Consideration of The Canterbury Tales with special emphasis on modern critical interpretation and Chaucer's artistic technique.

ENG-423 SHAKESPEARE I (3 Credits)
Shakespeare will be studied as poet and playwright, against the literary, social and historical background of Elizabethan England. Critical reading of representative plays from the comedies and histories.

ENG-423O SHAKESPEARE (OXFORD PROGRAM) (3 Credits)
A continuation of English 423 which is not, however, a prerequisite. The plays studied will be taken from among the tragedies.

ENG-424 SHAKESPEARE II (3 Credits)
After a five-week classroom analysis of three Shakespearean plays, students attend a performance of each play, on an early October weekend, at the Stratford Festival in Ontario. Travel expenses are not covered by tuition and thus a deposit is required to the instructor during registration period. Since different plays are studied each fall, this course may be repeated for additional credit.

ENG-425 SPENSET-MILTON (3 Credits)
An intensive study of Milton's poetry and prose. The course will focus on the relation of Milton's work to the allegorical, rhetorical, epic, and mythological traditions of the seventeenth century.

ENG-434 SHAKESPEARE-TRAGEDIES (3 Credits)
ENG-446 CONTEMPORARY DRAMA (3 Credits)
ENG-450 TENNYSON AND BROWNING (3 Credits)
A detailed study of the works of the two major poets of the Victorian period with attention to their poetic development and to characteristic Victorian ideas as they appear in the poetry.

ENG-460 MODERN POETRY (3 Credits)
ENG-463 GEORGE B. SHAW (3 Credits)
A study of selected plays of George Bernard Shaw with an emphasis on his development as a playwright and dramatic theorist.

ENG-472 LIT & SOC IMPLICAT. (3 Credits)
ENG-490 SPECIAL TOPICS (3 Credits)
This course will provide students with a sustained examination of a specific topic, genre, form, period, or theme not offered elsewhere in the curriculum. It will enable faculty members to engage students in the classroom with their current research projects and also to provide an opportunity to try out courses that we may later seek to make permanent parts of the curriculum.
ENGL-498 ENGLISH INTERNSHIP (1-3 Credits)
The English internship allows students to apply the skills and proficiencies they develop through their program in English in a professional setting. Each internship can earn between one and three credits. Credit value will be determined by the department chair (or a designee within the department) in light of hours worked, responsibilities, and duration of the internship, with a rough guide of 50 hours of internship equivalent to one credit hour. Internships may be taken during the summer or academic year.

ENGL-496 POPULAR LITERATURE (3 Credits)

ENGL-498 SENIOR WRITING WORKSHOP (3 Credits)

This course allows students to complete a substantial writing project while drawing on skills developed over their time at Bonaventure. The writing project will be specific to the student’s interests and can speak while drawing on skills developed over their time at Bonaventure. The English internship allows students to apply the skills and proficiencies they develop through their program in English in a professional setting.

English, BA

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ENG-203</td>
<td>ENGLISH LITERATURE I</td>
<td>3</td>
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<tr>
<td>ENG-204</td>
<td>ENGLISH LITERATURE II</td>
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<tr>
<td>ENG-220</td>
<td>AMERICAN LITERATURE I</td>
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<td>ENG-221</td>
<td>AMERICAN LITERATURE II</td>
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<td>ENG-250</td>
<td>ADV ORAL &amp; WRITTEN COMM. (One of the following is required: ENG 250, ENG 260, or ENG 325)</td>
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Select five advanced English courses

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<th>History</th>
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Total Credits 120

1. English majors are required to earn a minimum of 3 credits in a classical or modern language course, 202 or above. The number of courses and the amount of preparation needed to satisfy this requirement, therefore, depends on the student’s previous education.

2. The English Department recommends HIST-101 or HIST-201.

3. English majors are required to earn a minimum of 3 credits in a classical or modern language course, 202 or above. The number of courses and the amount of preparation needed to satisfy this requirement, therefore, depend on the student’s previous education.

4. To fulfill the General Education Quantitative Literacy Distribution the English Department recommends MATH-107.

5. Must take enough credits to reach 120.

Comprehensive Note: In the student’s senior year, each major must pass oral comprehensive examinations in English and American literature. The comprehensive exams requirement may be fulfilled by completing ENGL-498.
The objectives of the department of history are both general and specific. The general aim is to broaden and deepen the student’s knowledge of the principal events, trends, institutions and persons of historic significance which, taken together, give a better understanding of the past and contemporary worlds and so provide the student with a critique of our world, a sympathetic understanding of our time, its values and its new directions. The specific aims are to acquaint the student with the basic tools and methods of research and expression, both written and oral; to develop in the student the skills of analysis and synthesis for the evaluation of historic evidence and to emphasize and examine problems of historical nature. Particular stress is placed on sound writing and reading skills.

History courses, with the exception of HIST-496, HIST-498 and HIST-499, are open to all qualified students, whether or not they wish to major in history. History majors may not take more than 18 credit hours of history courses at the 100 and 200 levels to satisfy the 30 credit hour requirement. It is recommended that history majors distribute their remaining courses as evenly as possible among European, United States, Asian, and World history.

- History, BA (p. 231)
- History, Minor (p. 232)

History (HIST)

HIST-ELEC HISTORY ELECTIVE (4 Credits)

HIST-100 FIRST YEAR SEMINAR FOR HISTORY MAJORS (3 Credits)
This course is an introductory course for history majors to be taken the fall semester of the first year. The course serves as an introduction to both the discipline and the department. Although the specific content will change from semester to semester, students will be introduced to key concepts, such as historical schools of thought, basic research techniques, and types of history.

HIST-101 EUROPE TO 1815 (3 Credits)
Surveys the principal political, economic, social, religious, cultural and intellectual forces in Europe from the late Middle Ages through the Napoleonic period. The major trends, key personalities, and important institutions are investigated and assessed for their historical significance. Specific topics to be covered include the Renaissance, Protestant Reformation, the Scientific Revolution, and the Enlightenment, among others.

HIST-101C EUROPE TO 1815 (3 Credits)
Surveys the principal political, economic, and intellectual forces in European history from the late Middle Ages through the Napoleonic period. The major trends, key personalities, and important institutions are investigated and assessed for their historical significance. Specific topics to be covered include the Renaissance, Protestant Reformation, the Scientific Revolution, and the Enlightenment, among others.

HIST-102 EUROPE SINCE 1815 (3 Credits)
Surveys the principal political, economic, social, religious, cultural and intellectual forces in Europe from the time of Napoleon to the present. The specific topics that will be studied include the Romantic era, the Industrial Revolution, European imperialism, urbanization, the two world wars and the growth and decline of Communism, among many others.

HIST-106 THE ART OF HISTORICAL DETECTION (3 Credits)
This course is designed to introduce college students to the discipline of history through the detailed examination of a theme within history. The course is designed to be a more active approach to history for students wishing a more involved look at how historians work, argue, and interpret the world.

HIST-200 HIST. METH.& HISTORIOGRAPHY (3 Credits)
A required introductory course in the methods of historical research and writing. The purpose of this course is to familiarize the student with the most famous philosophies of history and to instruct the student in the techniques of how to gather and to organize facts, to check their accuracy and to report the findings simply, clearly and gracefully. The course will unify the history major's program and prepare the student to do independent research in History 498-499.

HIST-201 U.S. HISTORY TO 1865 (3 Credits)
A survey of the history of the United States from its discovery through the Civil War. American social, economic and cultural influences are woven into the traditional political pattern. Emphasis is on the Colonial Era, the American Revolution, the Early National Period, the Age of Jackson and the Civil War.

HIST-202 U.S. HISTORY SINCE 1865 (3 Credits)
A survey of the history of the United States from Reconstruction to modern times. The course focuses upon the social, economic and cultural growth of the modern United States in the setting of traditional political events. Emphasis given to the growth of business, Progressive Reforms, the Roaring Twenties, the Great Depression, the World Wars and post-war America.

HIST-206 INTRO. TO PUBLIC HISTORY (3 Credits)
A survey of the broad range of career fields and areas of interest in which history can be applied. These include museums, historical societies, archives, historic sites, government agencies, historic preservation projects private consulting firms, computer applications, and grant writing, as well as others.

HIST-207 SPORTS & AMERICAN SOCIETY (3 Credits)
This course follows the development of sports in America from the colonial times to the recent past; over the course of the semester we will examine the transition from folk games to the modern age of spectators. Important to this transformation will be changes in society, technology and business. We will look at the changing definition and purpose of sport, the symbolism of sport, the way in which sport can unify and divide people, and the interaction between sport as a part of culture and society and its relationship to national historical trends.

HIST-208 HISTORY OF AMER. WOMEN (3 Credits)
This course will examine the history of women in North America from the earliest European settlements to the present. Women's struggles and contributions will be studied culturally, socially, economically and politically as we examine their work in the domestic sphere, factories, fields and their demonstrations for rights in the streets.
HIST-230 AMERICAN MILITARY HISTORY (3 Credits)
This course surveys American military history from 1609 to present. It focuses on military campaigns, leadership, technological and tactical innovation, and the evolution of modern warfare. The major trends, key personalities, and important institutions are investigated and assessed for their historical significance. This course also examines the impact of war on the people of the United States including combatants as well as noncombatants.

HIST-250 WORLD HISTORY TO 1450 (3 Credits)
This course is descriptive and analytical survey of world cultures from early river valley civilizations to 1450, with an emphasis on non-Western civilizations in Asia, Africa and the Middle East. Among the themes explored are the importance of land and water trade routes as conveyors of civilizations, the influence of nomadic peoples on the spread of ideas and technologies, the reshaping of local cultures as Buddhism and Islam spread to Asia and Africa, and the importance of urban centers such as Baghdad as intellectual and cosmopolitan capitals before the 'rise' of the West.

HIST-251 WORLD HISTORY SINCE 1450 (3 Credits)
This course surveys world history since 1450 in order to provide with a historical context for understanding current world problems. Using an analytical and comparative approach, it examines the rise of Western global hegemony and how the non-West responded and is still responding. We will look at a wide range of topics and issues including nationalism, imperialism, decolonization and globalization. What role has trade, technology, war and revolution played? How have national and regional interests in the Middle East, Asia and Africa resisted and/or competed with the advance of globalization? What geographic, economic, social, and cultural factors created today's world?

HIST-307 COLONIAL LATIN AMERICA (3 Credits)
An examination of the social and economic history of Latin America from the coming of the first Europeans until independence in the 1820's. Topics emphasized will include the physical and spiritual conquest, the forging of new societies, the decline of empire and attempts at reform and the coming of the wars for independence.

HIST-307A COLONIAL LATIN AMERICA (3 Credits)

HIST-308 MODERN LATIN AMERICA (3 Credits)
The course surveys the history of Latin America from independence in 1825 until the present. Special attention will be paid to socio-economic change. Among the topics to be considered are causes of political instability, populism, the Mexican and Cuban revolutions and the relationship with the United States.

HIST-311 THE U.S. AND THE CARIBBEAN (3 Credits)
This course will examine the relationship between the United States and Central America and the islands of Spanish-speaking Caribbean. The focus will be on the period from 1898 to the present. Among the topics to be explored are: the reasons for the United States' interest in the region; the impact of that interest on local politics; the long-range impacts of intervention; the impacts of North American culture; and an analysis of which social groups ally with outside interests and which oppose them.

HIST-315 ENVIRONMENTAL HISTORY (3 Credits)
This course examines environmental history from a broad geographic (global) and temporal perspective (ancient times to the present). We will study how humans have interacted with, exploited, and preserved the environment, as well as how different religions and cultures formed their ideas about the environment and nature. This course also explores contemporary environmental issues and politics while using the past to contextualize and inform. Whether discussing environmental collapse on Easter Island in the Pacific Ocean, environmental politics in the United States today, or the process of global warming over the 20th and 21st centuries, students will be challenged to understand individual and collective behaviors in their social, cultural, political, and economic contexts.

HIST-325 MODERN BRITAIN & IRELAND (3 Credits)
A survey of the intertwined history of Great Britain and Ireland over the past two centuries. Topics to be studied include the Industrial Revolution, the British Empire, the Irish potato famine, the world wars, and the problems in Northern Ireland.

HIST-327 FRENCH REVOLUTION/NAPOLEON (3 Credits)
A detailed analysis of one of the most exciting and important eras in the history of the world. The course will trace the collapse of the Old Regime, the various stages of the Revolution, and the rise and fall of Napoleon. The class will also examine the legacies left by the Revolution and Napoleon on France as well as on the entire world.

HIST-359 US IN THE WORLD (3 Credits)
This course examines the history of the United states from the late nineteenth century to the present. During this period, the United States came to play an increasingly important role on the global stage after its Civil War. By placing the United States within a world context, this course seeks to examine ideas such as U.S. exceptionalism, the historical roots of U.S. hegemony, and more generally the utility of national histories.

HIST-359H US IN THE WORLD HONORS (3 Credits)
This course examines the history of the United states from the late nineteenth century to the present. During this period, the United States came to play an increasingly important role on the global stage after its Civil War. By placing the United States within a world context, this course seeks to examine ideas such as U.S. exceptionalism, the historical roots of U.S. hegemony, and more generally the utility of national histories.

Restrictions: RG.HON

HIST-362 HIST IMPERIAL CHINA TO 1800 (3 Credits)
China is frequently represented as a monolithic civilization, self-isolated and static in pre-modern times. This course is a descriptive and analytical survey of Chinese history from its mythological and historical origins in the 2nd millennium BCE to its confrontation with the West in the 19th century. It focuses on critical junctures in the evolution of China’s civilization and the forces that shaped it including the development of political philosophies, state ideologies, and bureaucratic institutions; empire-building, invasion, and rebellion; economic vitality and technological advancement; and finally, China’s rich and varied intellectual, social and cultural life.
HIST-363 MODERN CHINA (3 Credits)
Many view China as an ethnocentric civilization that responded to Western intrusions haphazardly, suffered under Japanese imperialism then under a communist regime but is nonetheless poised to become a dominant world power. This course is a descriptive and analytical survey of Chinese history from the 19th to the 21st century with an emphasis on China's search for identity and power in the modern world. It examines the changing relationship between the Chinese state and Chinese society and the evolving relationship of the Chinese nation to the rest of the world over the past two centuries.

HIST-364 MODERN JAPAN (3 Credits)
After reviewing early Japanese history to understand how Japanese political and cultural traditions shaped its responses to the West, this course will focus on the rise of Japan from the mid-19th. Topics include how Japan 'Westernized' became a major world power by the early twentieth century, how the Japanese experiment with democracy gave way to Japanese militarism and imperialism, how the war in Asia and Pacific evolved out of confluence of Japanese nationalism and world politics, why there is a continuing controversy over the dropping of Atomic bombs to end the war, how the American occupation shaped contemporary Japan, and Japan continues to struggle with its historical legacy. This course will emphasize comparison, analysis and interpretation and include a variety of material including a variety of material including historical studies, documentaries and film.

HIST-365 HIST OF MODERN MIDDLE EAST (3 Credits)
This course is an intensive study of a very expansive topic: the rise of modern Middle East. It examines this topic from three different perspectives: the rise of individual nation-states, the emergency of a region with conflicting religious and political identities, and an international arena of competing global interests.

HIST-366 WOMEN IN EAST ASIA (3 Credits)
Women in East Asia explores how Chinese and Japanese women created, accepted, defended, revised or resisted their roles in a traditional society and how these roles changed after the coming of the West. It will use a comparative approach to understand the similarities and differences in these two traditions as well as how women’s roles varied across class and ethnic boundaries. This course uses an interdisciplinary approach, emphasizes discussion and includes a variety of sources, including historical studies, oral histories, fiction, and film.

HIST-380 EVOLUTION OF INFORMATION & CYBERWARFARE (3 Credits)
This course will introduce students to the major themes, terms, and events relating to the history of both information and cyber warfare. It will examine the history of information warfare, the development of cybercrime, cyberespionage, cyberattacks, and cyberwarfare through historical case studies. It will examine major incidents in the twentieth century to the present.

HIST-394 SP.TOP IN HIST (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-394A SP TOP ASIAN HIST II (3 Credits)
HIST-394B SP TOP WORLD HIST II (3 Credits)
HIST-394C WOMEN IN EAST ASIA (3 Credits)
HIST-394D MODERN JAPAN (3 Credits)
HIST-394E SP TOP 20TH CENTURY EUROPE (3 Credits)
HIST-394G SP TOP PRE MODERN JAPAN (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-394J SP.TOP: EUROPEAN HISTORY (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-394K SP TOP: THE WAY IN CHINA & JAPAN (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-394L SP.TOP: EUROPEAN MILITARY HISTORY (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-394M SP TOP: WAR AND TECHNOLOGY (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-394P FOUNDATION OF THE WESTERN WORLD: FROM THE RISE OF DEMOCRACY TO THE CRISIS OF MULTICULTURALISM (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-394Q AMERICAN MILITARY HISTORY (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-394R CYBERWARFARE (3 Credits)
This course will deal with countries, topics or periods of history that are not usually studied in other courses offered by the department.

HIST-401 COLONIAL AMERICAN HISTORY (3 Credits)
The discovery, exploration and settlement of North America; and the development of a British colonial civilization are examined. Emphasis is given to political, economic, social and cultural trends within the colonies, and their relationship to the rest of the British Empire, up to the end of the French and Indian War.

HIST-402 THE ERA OF THE AM REVOLUTION (3 Credits)
Intensive study is focused upon the period from the French and Indian War to the Philadelphia Convention, with specific attention to the foundations of a new American national spirit.

HIST-403 THE EARLY NATIONAL PERIOD (3 Credits)
Beginning with the creation of the United States, the development of the American nation is studied through the early 1820's. Special emphasis is given to the rise of political parties and to the influence of world events upon the new American nation.

HIST-407 TWENTIETH CENTURY US (3 Credits)
A thorough and detailed investigation of the history of the United States to 1945 touching social, economic, political and intellectual development.

HIST-407H TWENTIETH CENTURY US HONORS (3 Credits)
A thorough and detailed investigation of the history of the United States to 1945 touching social, economic, political and intellectual development. Restrictions: RG.HON

HIST-408 UNITED STATES 1945-2000 (3 Credits)
A thorough and detailed investigation of the history of the United States from 1945 to the present touching social, economic, political, and intellectual developments. The role of the United States in world affairs will be stressed in this course. Wide reading in specific works will be required.
HIST-417 CULTURE WARS: POLITICS/MEMORY (3 Credits)
This course focuses on the use of history in contemporary partisan politics and on how competing groups use history to establish their own identities. Students will become familiar with the development of public memory and commemoration. Specifically, students will examine recent ideological conflicts between the left and the right regarding the use and interpretation of American history. The topics covered in this class include the influence of history on public policy, interpretations of history found in popular culture, and political correctness and multiculturalism.

HIST-418 AFRICAN-AMERICAN HISTORY (3 Credits)
This course will survey the history of African-Americans from the beginning of their involuntary migration to North America in 1619 to the present day. After examining the origins of racism, the course will follow the ongoing struggle for equal social, cultural, economic and political rights.

HIST-419 DIGITAL HISTORY & ARCHIVAL PRACTICES (3 Credits)
This course is designed to encourage students to blend the traditional skills of a historian (the sorting and analysis of documents) with new technologies. Students will work with primary and secondary documents and also will become familiar with Internet research, Web page creation, databases and a variety of software programs. In addition, students will be introduced to archival management and exhibit creation. Approximately one third of the course will be spent in the library working with archival documents.

HIST-421 HISTORY OF THE FUTURE: SCIENCE FICTION THEN AND NOW (3 Credits)
Science Fiction has long captured the imaginations of the public. However, Science Fiction has also often been considered low brow, a literary form that lacks artistic standing. Over the course of the semester we will explore the history and development of science fiction looking at several themes: How has science fiction served as an experimental literature for those interested in the social and political impact of science and technology; Science Fiction as an attempt to predict the future and what that says about society; and Explore the historical context in which the science fictions was created.

HIST-429 20TH CENT AMER IN FILM/HIST (3 Credits)
Twentieth Century America in Film and History offers an exploration of the United States cultural and social history through the medium of film and other mediums of mass culture. Throughout the semester students will view a variety of films arranged in chronological order. The class will discuss and write about those films as primary documents within an historical context, as manifestations of popular culture, as reflections of society, as manifestations of business and technology, and as works of art.

HIST-432 THE POLITICS OF POP (3 Credits)
This course blends history and cultural theory to illuminate the ways that popular culture and specifically popular music mirror many of the complex political currents of particular historical periods. Questions: what is ‘popular culture?’ What are the politics of celebrity? How is an often subversive cultural product commoditized and marketed for the masses? What is the line between ‘art’ and commerce? What role do race, class, and gender play in the production of popular music?

HIST-450 PIRACY DURING THE AGE OF SAIL (3 Credits)
This course will examine the rise of piracy in the Americas shortly after Spanish colonization through the American Revolution. The class will consider the consequences of state-sponsored piracy during the sixteenth and early to mid-seventeenth centuries and the subsequent state-sponsored violence to eradicate pirates in the late seventeenth and eighteenth centuries. Students will engage with topics ranging from clashing imperial powers and Atlantic trade networks to disorderly maritime frontiers and the changing nature of maritime labor and culture. By delving deeply into the lives of common seamen, this course will seek to understand piracy from the bottom-up through a combination of careful reading of secondary sources and primary source documents by and about pirates.

HIST-464 MODERN IRELAND 1603 TO 1972 (3 Credits)
This course considers the political, social, cultural and religious history of Ireland and its fluctuating relationships with England in the period from the death of Queen Elizabeth to the 1970’s. Special emphasis will be placed on Catholic emancipation, the famine, The Home Rule Movement and Ulster in the 20th century.

HIST-475 WORLD WAR II (3 Credits)
Analyzes the causes, the diplomatic and military history, and resolution of the Second World War. This course also examines the causes of the Cold War, the relationship between diplomacy and the origins of such a war, and the global impact of this conflict.

HIST-491 ADVANCED HISTORY READING PROGRAM (3 Credits)
This required course is designed for senior History majors. In a seminar format, a small group of students will meet once a week to discuss an assigned book. This intensive reading course will serve as a capstone to a student’s college career. Each student not only will be required to read and analyze several books, but also explain and defend his or her interpretations. The weekly readings will encourage students to synthesize knowledge and employ skills gained in previous semesters.

Restrictions: RG.HIST

HIST-491H ADV HISTORY READING PROGRAM (3 Credits)
This required course is designed for senior History majors. In a seminar format, a small group of students will meet once a week to discuss an assigned book. This intensive reading course will serve as a capstone to a student’s college career. Each student not only will be required to read and analyze several books, but also explain and defend his or her interpretations. The weekly readings will encourage students to synthesize knowledge and employ skills gained in previous semesters. Honors section for approved Honors students only.

Restrictions: RG.HON

HIST-492 ADVANCED HIST READING PROGRAM (3 Credits)
This required course is designed for senior History majors. In a seminar format, a small group of students will meet once a week to discuss an assigned book. This intensive reading course will serve as a capstone to a student’s college career. Each student not only will be required to read and analyze several books, but also explain and defend his or her interpretations. The weekly readings will encourage students to synthesize knowledge and employ skills gained in previous semesters.

HIST-492A VIETNAM (AHRP) (3 Credits)
HIST-492B BRITISH IMPERIALISM (AHRP) (3 Credits)
HIST-492C US PRESIDENCY (AHRP) (3 Credits)
HIST-492D RACE TO THE MOON (3 Credits)
HIST-494 HISTORICAL TOPICS (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.
HIST-494E WAR & CIVIL LIBERTIES (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494E SP TOP ENVIRONMENTAL HISTORY (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494F SP TOP HIST THRU GAMING (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494G HIST TOP US IMMIGRATION/ETHN (3 Credits)
Immigration, one of the most powerful and enduring symbols of the United States, remains a contentious issue in contemporary America. This course will investigate immigration patterns, immigration policy, and immigrants' lives from the end of the 19th century to the present day to understand the historical roots of today's immigration issues, including Arizona's new law against undocumented immigrants; the ongoing political debates about comprehensive immigration reform and border security; the massive immigrant-rights marches of the last few years; and the hopes and fears of a changing America.

HIST-494GH HIST TOP US IMMIGRATION/ETHN (3 Credits)
HONORS COURSE - Immigration, one of the most powerful and enduring symbols of the United States, remains a contentious issue in contemporary America. This course will investigate immigration patterns, immigration policy, and immigrants’ lives from the end of the 19th century to the present day to understand the historical roots of today's immigration issues, including Arizona's new law against undocumented immigrants; the ongoing political debates about comprehensive immigration reform and border security; the massive immigrant-rights marches of the last few years; and the hopes and fears of a changing America.

Restrictions: RG.HON

HIST-494H Historical Topics - Honors (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

Restrictions: RG.HON

HIST-494I HIST TOP CITIZENSHIP/IDENTITY (3 Credits)

HIST-494K HIST TOP THE GREAT DEPRESSION (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494L SP TOP THE HOLOCAUST (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494M SP TOP PIRACY IN THE AMERICAS 1500-1728 (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494N SP TOP NATIVE AMERICAN HISTORY (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494P SP TOP CYBERWARFARE (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494Q SP TOP WORLD CINEMA (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-494R SP TOP HISTORY THROUGH GAMING (3 Credits)
This course will involve studying an area of history that is not regularly treated in detail in other courses offered by the department.

HIST-495 INTERNSHIP IN HISTORY (3 Credits)
Awarded to deserving junior and senior students. Each student will work for one semester for a scholarly journal, historical association, archival depository, or historical museum. The student will be responsible for a variety of tasks, including the preparation of materials intended for publication and the identification and cataloging of historical records and artifacts.

HIST-495A INTERNSHIP IN MUSEUM WORK (1-3 Credits)

HIST-495B INTERN. HISTORIC HOUSE MGMT (1-3 Credits)

HIST-495C INTERNSHIP IN LOCAL HISTORY (1-3 Credits)

HIST-495D INTERNSHIP IN ORAL HISTORY (1-3 Credits)

HIST-495E INTERN. IN CITY GOVERNMENT (3 Credits)

HIST-496 INDEPENDENT STUDY (3 Credits)
Under the guidance of a professor, a student will engage in an advanced project of reading or research.

HIST-496A ENGLAND, 1830-1918 (3 Credits)

HIST-496B IND ST: CONTEMPORARY JAPANESE TRANATIONALISMS (3 Credits)
Under the guidance of a professor, a student will engage in an advanced project of reading or research.

HIST-498 SENIOR RESEARCH PAPER (3-6 Credits)
The primary purpose of the senior research paper is to aid qualified senior history majors in developing the ability for independent study and research and in producing a thesis that is intelligently conceived, carefully researched, closely reasoned, properly documented, and clearly and effectively presented. An individual student will work under the guidance of a professor on an agreed-upon topic.

HIST-499 SENIOR RESEARCH PAPER (3-6 Credits)
The primary purpose of the senior research paper is to aid qualified senior history majors in developing the ability for independent study and research and in producing a thesis that is intelligently conceived, carefully researched, closely reasoned, properly documented, and clearly and effectively presented. An individual student will work under the guidance of a professor on an agreed-upon topic.

HIST-499B SP TOP IN HISTORY-FIJI (3 Credits)

### History, BA

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST-101</td>
<td>EUROPE TO 1815</td>
<td></td>
</tr>
<tr>
<td>HIST-102</td>
<td>EUROPE SINCE 1815</td>
<td></td>
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<tr>
<td>HIST-201</td>
<td>U.S. HISTORY TO 1865</td>
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<td>U.S. HISTORY SINCE 1865</td>
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<tr>
<td>HIST-200</td>
<td>HIST. METH. &amp; HISTORIOGRAPHY</td>
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<tr>
<td>HIST-419</td>
<td>DIGITAL HISTORY &amp; ARCHIVAL PRACTICES</td>
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</tbody>
</table>

Select one of the following:

- HIST-491 ADVANCED HISTORY READING PROGRAM
- HIST-492 ADVANCED HIST READING PROGRAM
- HIST-498 SENIOR RESEARCH PAPER
- HIST-499 SENIOR RESEARCH PAPER

History Electives

Foreign Language 202

General Education Requirements (p. 161)
1 Students will take 21 additional credit hours of history courses. In consultation with their advisor, students may select one Classics course toward the history electives. Students double majoring in Adolescent Education and history can count one education course toward History Electives selected in consultation with their advisors. General Electives: 41 credit hours or sufficient to reach 120 credit hours.

2 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Historical Studies Distribution is met with the major. The Writing Intensive, Technology Literacy and Diversity Coded courses should be met within the history major or within one of the general education distribution courses.

### Comprehensive Examination

Every student may fulfill the comprehensive examination requirement by submitting a senior thesis demonstrating mastery of the skills needed for independent study in history or by taking History 491 or 492, the advanced history reading program. These are senior seminar courses requiring the application of knowledge and skills presumably acquired through the major in history.

### Special Programs

History majors are encouraged to participate in the University's Honors Program, taking Honors seminars and completing an Honors project in History during their senior year.

The Department of History offers course work and programs that covers a wide range of topics and skills. The department offers numerous internships in area historical societies, museums and archives. The Department of History works closely with the Adolescent Education program and will work with students who wish to pursue History as a second major.

With its emphasis on reading, writing, analysis and synthesis, history offers an excellent program for students wishing to pursue post-graduate and professional degrees. Coursework in public history prepare them to enter fields such as historic preservation or museum work. Majors have gone on to pursue advanced degrees in history, public history, library science, business and many other areas. History is an excellent course of study for students interested in law school.

Further information on all of the above can be obtained from the faculty.

### History, Minor

For the non-major, the following courses constitute a minor:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST-101</td>
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</tr>
<tr>
<td>HIST-102</td>
<td>EUROPE SINCE 1815</td>
<td>3</td>
</tr>
<tr>
<td>HIST-201</td>
<td>U.S. HISTORY TO 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST-202</td>
<td>U.S. HISTORY SINCE 1865</td>
<td>3</td>
</tr>
<tr>
<td>Select one 300-level History course</td>
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</tr>
<tr>
<td>Select one 400-level History course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one History elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student's academic adviser.
DEPARTMENT OF
MATHEMATICS

Department Chair: Maureen P. Cox, Ph.D.

Faculty
M. Cox, Ph.D.
C. Hill, Ph.D.
M. Klucznik, Ph.D.
T. Mobley, M.A.
C. Uhl, Ph.D.

The remarkable effectiveness of mathematics to reveal and quantify patterns in every human discipline makes a degree in mathematics enormously valuable and versatile. The department offers a major that prepares students for a myriad of careers, ranging from business to industry to government to secondary education, as well as for graduate school. Non-majors may obtain a minor in mathematics. Visit the department at http://www.sbu.edu/math (http://www.sbu.edu/math/).

• Mathematics, BS (p. 235)
• Mathematics, Minor (p. 236)

Mathematics (MATH)

MATH-099 DEVELOPMENTAL MATHEMATICS (3 Credits)
The course is intended for students who need to improve their fundamental knowledge of basic arithmetic and algebra skills before they can be successful in the mathematics course required for their major. Topics will include fractions, decimals, signed numbers, percents, ratios and proportions, linear and polynomial expressions, equations, and graphs. Applications are emphasized throughout in preparation for further study in mathematics and other disciplines which involve quantitative problems. Students will be placed into this course by the Mathematics Department based on a combination of high school record, SAT/ACT scores, and/or placement exam score. This course will not satisfy the quantitative reasoning requirement for Clare College. Students may not enroll in this course if they have successfully completed any college mathematics course.

MATH-107 INTRODUCTION TO STATISTICS (3 Credits)
This course is a non-calculus-based study of statistics, including descriptive methods, basic probability theory, some design and data-collection issues, and procedures for statistical inference. Topics on statistical inference include confidence intervals and hypothesis testing for means and proportions, Chi-squared tests, and one-way and two-way ANOVA. Emphasis is on set-up and interpretation rather than on computation, with a significant reliance on computer software and/or statistical calculators for the ‘number crunching’ portion of the analysis. Students may not receive credit for both MATH 107 and MATH 117. MATH 117 includes all content in MATH 107 except ANOVA, and consequently moves at a slower pace than MATH 117.

MATH-108 PRECALCULUS (3 Credits)
This course provides a detailed study of topics needed for success in calculus: algebra, trigonometry, analytic geometry, and functions. Intended for students who need to take at least one semester of calculus for their major.
Restrictions: RG.MA151

MATH-111 MATHEMATICS OF ELEMENTARY EDUCATION I (3 Credits)
This course, in conjunction with Math 112, is intended to give pre-service elementary school teachers a deep understanding of the mathematical systems that they will be expected to teach. The content of Math 111 includes the arithmetic systems of the whole numbers, the integers, and the rationales (at least in fraction form). For each system, students are expected to understand not only how to perform the four arithmetic operations, but also to understand what those operations accomplish in real life, why the operations work the way they do, and how to model or represent those operations in concrete or semi-concrete ways. The study of the integers will include some basic number theory concepts. Underlying all topics in Math 111 are the notions of estimation and mental arithmetic, problem solving, mathematical communication, and viewing mathematics as a logical and sensible system rather than a set of memorized procedures. Intended for elementary education majors. Offered Fall.
Restrictions: RGALLED

MATH-112 MATHEMATICS FOR ELEMENTARY EDUCATION II (3 Credits)
This course is a continuation of Math 111, with the same philosophy and emphasis on achieving a deep understanding of elementary school mathematics. The content for Math 112 includes the real number system (as comprised of terminating, repeating, and non-repeating decimals), percents and proportions, probability, descriptive statistics, measurement (in English, metric, and non-standard units), and an overview of basic terminology and concepts from geometry. Intended for elementary education majors. Offered Spring.
Prerequisite(s): Take MATH-111
Restrictions: RGALLED

MATH-117 INTRODUCTION TO STATISTICS FOR NATURAL SCIENCE MAJORS (3 Credits)
This non-calculus-based study of statistics includes descriptive methods, basic probability theory, some design and data-collection issues, and procedures for statistical inference. Topics on statistical inference include confidence intervals and hypothesis testing for means and proportions, Chi-squared tests, and one-way and two-way ANOVA. Emphasis is on set-up and interpretation rather than on computation, with a significant reliance on computer software and/or statistical calculators for the ‘number crunching’ portion of the analysis. Students may not receive credit for both MATH 107 and MATH 117. MATH 117 includes all content in MATH 107, but moves at a faster pace to allow for the inclusion of the ANOVA topics.

MATH-121 FINITE MATH FOR MGT & SOC SCI (3 Credits)
An introduction to mathematical techniques used in management and social science applications, including matrix arithmetic for modeling multivariable problems, Gauss-Jordan elimination for solving systems of equations, graphical and simplex methods for solving linear programming optimization tasks, and basic notions from the mathematics of finance.

MATH-122 CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCES (3 Credits)
This course is an introduction to differential and integral calculus with applications to management and social sciences. This course emphasizes the modeling of problems and the interpretations of results rather than theory. Students who have successfully completed Math 151 may not take this course for credit. Although there is no prerequisite, students are encouraged to take Math 121 before attempting Math 122.

MATH-135 QUANTITATIVE REASONING (3 Credits)
This course enables students to apply quantitative reasoning skills to their daily lives. The topics include numerical reasoning, logical reasoning, and statistical reasoning, all applied to a variety of problems facing citizens of the 21st Century.
MATH-145 INTRODUCTION TO MATHEMATICAL CONCEPTS (3 Credits)
The purpose of Math 145 is to develop in students an appreciation of
and a sense of accomplishment in mathematics by exploring topics
that they have likely not seen in high school and illustrating them
with contemporary real-world applications. The course is intended for
students majoring in liberal arts disciplines. The topics of the course may
vary from semester to semester, but the topics covered most often are
graph theory, social choice, coding, and symmetry.
Restrictions: MATH151

MATH-151 CALCULUS I (4 Credits)
The study of calculus of functions of one variable. The course
covers rates of change, limits, the derivative, the definite integral,
the Fundamental Theorem of Calculus, area and average value, and
exponential growth and decay. All topics are treated with an emphasis on
graphical interpretation. Prerequisite: an understanding of algebra and
trigonometry at the level of Math 108.

MATH-152 CALCULUS II (4 Credits)
A continuation of Math 151 that includes methods of integration,
numerical integration, applications of definite integral, double integrals,
Taylor polynomials and approximation, infinite sequences and series, and
vectors in two dimensions.
Prerequisite(s): Take MATH-151

MATH-199 READINGS IN MATHEMATICS (1-3 Credits)
This course offers the interested student an opportunity to work under
the supervision of a faculty member in exploring an area of mathematics
beyond the scope of existing courses. The topic and content for the
semester (and the plan for grading) must be approved by the department
chair before the course is included in offerings. The course is not open to
mathematics majors.

MATH-207 DISCRETE MATHEMATICS I (3 Credits)
An introduction to topics in discrete mathematics, including logic, set
theory, functions and sequences, methods of proof, algorithms, number
theory, counting, and discrete probability.

MATH-208 DISCRETE MATHEMATICS II (3 Credits)
A continuation of Math 207 that includes advanced counting techniques,
relations, graphs and trees, Boolean algebra, languages and grammars,
and finite state machines. Students who have successfully completed
Math 345 may not take this course for credit.
Prerequisite(s): Take MATH-207

MATH-211 GEOMETRY FOR ELEMENTARY EDUCATION (3 Credits)
An intuitive approach to geometry whose topics include angles, polygons,
circles, parallelism, area, perimeter, similarity, congruence, volume, and
surface area. Transformations are studied and applied to tessellations
and symmetry. The course contains some proofs, but most results are
developed by way of informal arguments and inductive reasoning. A
dynamic geometry software package is used. Intended for elementary
education majors. Offered Spring.
Prerequisite(s): Take MATH-112

MATH-241 LINEAR ALGEBRA (3 Credits)
An introduction to linear algebra and its applications. Topics include
systems of linear equations, vectors, matrices, linear geometry, vector
spaces, dimension, and linear transformations. Offered Spring.
Prerequisite(s): Take MATH-152 MATH-207

MATH-251 CALCULUS III (4 Credits)
The study of calculus of functions of several variables. Topics include
vectors and graphs in three dimensions, partial derivatives and their
applications, multiple integrals and their applications, and line surface
integrals. Offered Fall.
Prerequisite(s): Take MATH-152

MATH-252 ORDINARY DIFFERENTIAL EQUATIONS (3 Credits)
An introduction to ordinary differential equations. Topics include
modeling, analytic solutions, qualitative study of solutions, and numerical
approximation of solutions. Offered Spring.
Prerequisite(s): Take MATH-152

MATH-281 PROBLEM-SOLVING SEMINAR (1 Credit)
Techniques of mathematical problem-solving are studied and applied
to a wide range of problems. Students present their solutions for class
discussion. This course prepares students to take the Putnam exam, if
they wish to do so. May be repeated for credit. Offered Fall.
Prerequisite(s): Take MATH-152 MATH-207

MATH-312 GEOMETRY (3 Credits)
This course views mathematics as comprised of axiomatic systems,
and illustrates this view with a study of Euclidean and non-Euclidean
geometries. The course includes Euclidean constructions, along with
transformational and coordinate/analytical approaches as alternatives to
synthetic geometry. A dynamic geometry computer software package is
used as appropriate.
Prerequisite(s): Take MATH-207 MATH-241

MATH-322 MATHEMATICAL PROBABILITY (3 Credits)
This course is a calculus-based study of probability that includes basic
probability theorems, the notions of discrete and continuous random
variables, mathematical expectation, moment-generating functions,
change of variable, multivariate distributions, product moments, and the
Central Limit Theorem in preparation for inferential statistics. Offered
Spring of odd years.
Prerequisite(s): Take MATH-152 MATH-207

MATH-323 MATHEMATICAL STATISTICS (3 Credits)
This course is a calculus-based study of statistics. The course includes a
brief overview of some issues in experimental design and data collection,
followed by a careful study of techniques for and interpretation of
inferences regarding means, variances, proportions, regression, and
correlation. Computers and/or calculators are used in these analyses.
Some time is devoted to non-parametric procedures. Offered Fall of odd
years.
Prerequisite(s): Take MATH-322

MATH-341 ABSTRACT ALGEBRA I (3 Credits)
This proof-intensive, theoretic course examines the properties of
generalized algebraic structures, focusing primarily on groups, rings,
integral domains, and fields. Illustrative examples include the real number
system and several of its sub-systems, permutation groups, groups of
functions under composition, modular arithmetic, the complex numbers,
and matrices. Offered Fall of even years.
Prerequisite(s): Take MATH-207 MATH-241

MATH-342 ABSTRACT ALGEBRA II (3 Credits)
The proof-intensive, theoretic study of mathematical structures with an
emphasis on rings, ideals, integral domains, fields, and vector spaces.
Prerequisite(s): Take MATH-341
MATH-345 GRAPH THEORY (3 Credits)
A study of graphs and digraphs from both an abstract and algorithmic point of view. The course includes topological properties, numerical representations, and applications of graphs.
Prerequisite(s): Take MATH-207

MATH-351 INTRODUCTION TO REAL ANALYSIS I (3 Credits)
This proof-intensive, theoretic course covers the basic principles and theory of mathematical analysis of functions of a single real variable, including the topology of the real number system, sequences, limits, continuity, differentiation, integration, infinite series of real numbers, and infinite series of functions. Offered Fall of odd years.
Prerequisite(s): Take MATH-207 MATH-152

MATH-352 INTRODUCTION TO REAL ANALYSIS II (3 Credits)
A proof-intensive, theoretic development of the calculus of functions of several real variables.
Prerequisite(s): Take MATH-351

MATH-409 SPECIAL TOPICS (3 Credits)
MATH-409A SPECIAL TOPICS: THE PROBLEM SOLVING SEMINAR II (1-3 Credits)

MATH-413 NUMBER THEORY (3 Credits)
Basic concepts, divisibility, primes, Diophantine equations, congruence, Euler’s function, and applications to cryptography.
Prerequisite(s): Take MATH-207

MATH-431 NUMERICAL ANALYSIS (3 Credits)
An introduction to numerical techniques and mathematical models, including data representation, graphing, systems of equations, interpretation, approximation, and random simulation.
Prerequisite(s): Take CS-131 MATH-241 MATH-251

MATH-432 OPERATIONS RESEARCH (3 Credits)
Problem formulation, linear programming, transportation, transshipment and assignment problems, network analysis, dynamic programming, game theory, queuing theory, and computer simulation.
Prerequisite(s): Take CS-131 MATH-241 MATH-251

MATH-433 OPERATIONS RESEARCH II (3 Credits)
A study of the complex number system, functions of a complex variable, and calculus concepts applied to such functions.
Prerequisite(s): Take MATH-251

MATH-461 HISTORY & PHILOSOPHY OF MATHEMATICS (3 Credits)
The course offers an overview of the people, times, circumstances, and applications related to the major developments in mathematics, including some of the philosophical issues underlying these developments. Contributions of minorities and of other cultures are studied. Topics from lower-level courses are put into historical and philosophical perspective and integrated together, and some new topics are presented. Students are required to write papers and to make oral presentations in class on topics of their choice.
Restrictions: RGC.105

MATH-481 SPECIAL TOPICS GEOMETRY (1-3 Credits)
MARKOV CHAINS, DESIGN OF EXPERIMENTS.
Prerequisite(s): MATH-207 MATH-251

MATH-483 SPECIAL TOPICS ALGEBRA (1-3 Credits)
Prerequisite(s): TAKE MATH-207

MATH-484 SPECIAL TOPICS ALGEBRA (1-3 Credits)
Prerequisite(s): TAKE MATH-207

MATH-485 SPECIAL TOPICS ANALYSIS (1-3 Credits)
Prerequisite(s): TAKE MATH-251 AND MATH-241

MATH-486 SPECIAL TOPICS TOPOLOGY (1-3 Credits)
Prerequisite(s): TAKE MATH-251 AND MATH-241

MATH-487 SPECIAL TOPICS APPLIED MATH. (3 Credits)
MATH-487A APPLIED MATHEMATICS (1 Credit)
MATH-487B SP TOP DATA SCIENCE II (3 Credits)
MATH-487D SP TOP DATA SCIENCE WITH PYTHON (3 Credits)

MATH-492 SENIOR COMPREHENSIVE PROJECT (1 Credit)
The project consists of selecting a topic relating to, but beyond the usual scope of, a 300- or 400-level mathematics course, writing a paper on the topic, and then presenting the paper to the mathematics faculty and other mathematics students. The paper and the talk are prepared under the guidance of a mathematics faculty member, typically the one who taught the course to which the topic relates.
Restrictions: RG.86+

Mathematics, BS

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<thead>
<tr>
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<tr>
<td>MATH-151</td>
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<td>MATH-208</td>
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<td>MATH-241</td>
<td>LINEAR ALGEBRA</td>
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<td>MATH-251</td>
<td>CALCULUS III</td>
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<td>MATH-312</td>
<td>ABSTRACT ALGEBRA</td>
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<tr>
<td>MATH-345</td>
<td>INTRODUCTION TO REAL ANALYSIS I</td>
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<td>MATH-351</td>
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<td>MATH-492</td>
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Nine credits of mathematics electives numbered 252 or higher.

Computer Science 7-8

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<tr>
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<tr>
<td>CS-131</td>
<td>COMPUTER SCIENCE I</td>
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<td>CS-132</td>
<td>COMPUTER SCIENCE II</td>
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<tr>
<td>ENGR-220</td>
<td>INTRODUCTION TO MATLAB</td>
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Select one of the following:

Foreign Language 2

General Education Requirements (p. 161) 3

Credits 36-37

Total Credits 120-122

1. CS-332 (Theory of Computation) may be used as three of these credits. The student should choose the nine credits of mathematics electives in consultation with his or her adviser to complement the student’s career goals. In particular, a student interested in secondary education certification must use MATH-312, MATH-322, and MATH-323 as the electives in order to be prepared for the certification examinations.

2. The foreign language must be at level 202 or higher. Students not prepared to begin at this level will need to take additional courses in language, which will be counted as general electives.

3. SBU-102 may be taken either semester the first year. THFS-101 is highly recommended in the first two years. MATH-151 satisfies the Quantitative Literacy Distribution for the General Education Requirement.
The Senior Comprehensive Requirement

During the student’s senior year (or earlier), a student majoring in mathematics will ask a faculty member to act as the mentor for their Senior Comprehensive Project. The student may make this request of any faculty member. The student and faculty member will work together to select a topic related to an upper-level mathematics course that the student has taken or is currently taking as the subject for the project. This topic should delve into material beyond the scope of the course. Under the guidance of the faculty mentor, the student will develop this topic to produce a paper. The student will then give a talk, based on that paper, to the department faculty, other math majors, and any additional interested parties. The student should register for MATH-492, Senior Comprehensive Project for their graduation semester.

First Year

<table>
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<tr>
<th>Fall</th>
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<td>ENG-101</td>
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<td>ENG-102</td>
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Second Year

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<td>MATH-241</td>
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<td>CS-132 or ENGR 220</td>
<td>3-4</td>
<td>General Electives</td>
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<td>MATH-208 or 345</td>
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<td>General Education Requirements</td>
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<tr>
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Third Year

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<td>General Elective</td>
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Fourth Year

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<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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<tbody>
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<td>MATH-351 or 341</td>
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<td>MATH-492</td>
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<td>Mathematics Elective</td>
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Total Credits 120-121

With permission of the department, one of the latter two courses may be replaced by either MATH-208, MATH-251 or MATH-252.

1 The foreign language must be at level 202 or higher. Students not prepared to begin at this level will need to take additional courses in language, which will be counted as general electives.

Mathematics, Minor

To obtain a minor, a student must complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>MATH-151</td>
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<td>MATH-152</td>
<td>CALCULUS II</td>
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<tr>
<td>MATH-207</td>
<td>DISCRETE MATHEMATICS I</td>
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<td>Select two math courses numbered 300 or higher</td>
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<td>Total Credits</td>
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</table>
DEPARTMENT OF MILITARY SCIENCE

Faculty

J. Carrier, Major US Army (Armor)
S. Coulter, Lieutenant Colonel US Army (Infantry)
J. Gordnier, Department of the Army Civilian/Sergeant First Class US Army Reserve (Infantry)
J. McIntyre, Master Sergeant US Army (Artillery)
N. Miller, Master Sergeant, US Army (Infantry)
L. Johnson, Contracted Military Science Instructor/Lieutenant Colonel US Army (Retired)
J. Walton, Department of the Army Civilian/First Sergeant (Retired)

The department of military science conducts the Army Reserve Officers’ Training Corps (ROTC) program at St. Bonaventure University. The program is structured in two separate phases: a Basic Course (freshmen and sophomores) and an Advanced Course (juniors and seniors). Successful completion of ROTC qualifies a student, upon graduation, for appointment as a commissioned officer (second lieutenant) in the United States Army. St. Bonaventure’s ROTC program enjoys an honorable history dating back to 1936, highlighted by awards in 1998 as the best small unit in the nation (MacArthur Award) and in 2002, when the program was honored as Outstanding ROTC Unit in Cadet Command, recognizing it as one the best small ROTC programs nationwide.

Basic Course

The Military Science I and II classes are open to all students and a great way to earn up to 3 credits per semester (10 total through Sophomore year). Students learn important time management, organizational and foundational leadership skills through practical exercises. The curriculum is designed to enhance any academic pursuit. Students, except ROTC scholarship recipients, incur no military service obligation by enrolling in the basic course.

Course Descriptions

Using a military model, Military Science students receive instruction on the fundamentals of leadership. These basic leadership skills prepare students to lead in public service, business, military, and community organizations. By the end of the Basic Course, Cadets understand the unique aspects of the officer corps, are well grounded in the fundamentals of leadership and decision-making, embrace the Army’s institutional values, and are able to apply the principles of individual fitness and unit training. The lessons are designed to maximize Cadet participation, inspire intellectual curiosity, stimulate self-study, and encourage Cadets to contract. Leadership labs complement classroom instruction and challenge students with hands-on exercises where land navigation, rappelling, and survival skills are learned and then practiced.

Advanced Course

Admission to the Advanced Course requires completion of the Basic Course or equivalent. Eligible veterans and members of the Reserved Forces who have completed basic training may apply for direct admission, and sophomores and juniors without military experience can earn Basic Course credit by attending a four-week Leader’s Training Course at Fort Knox, Ky., during June and July. To enroll in the Advanced Course, students must contract with the Army and agree to accept a commission as an Army Second Lieutenant.

Course Descriptions

Consisting of four distinct semesters, the Advanced Course is structured as a two-phased program leading to commissioning. The principal lessons of operations and tactics, coupled with leadership are progressive. The junior year focuses on enhanced tactics at the small unit level in preparation for Advanced Camp at Fort Knox, Kentucky. The senior year focuses on officer professional development and final preparation for commissioning. By the end of the senior year, the cadet will have confidence in their abilities to lead, make decisions and motivate subordinates within their organization. The semesters are designed to maximize cadet participation, inspire intellectual curiosity and stimulate self-directed study. Completion of the Advanced Course prepares the cadet for the physical, emotional and intellectual challenges of leadership of the evolving Army in the 21st Century.

In addition to the military knowledge and skills taught in the core curriculum of military science, students enrolling in the Advanced Course must also satisfy a professional military education requirement of at least one undergraduate course in military history.

Course Credit

Up to ten credits of Military Science may be counted as general elective credits towards a degree program. Military Science 1 (MS1-freshman) course students earn one elective credit for class and one elective credit for lab each semester. MS2 students earn two credits for class and one for lab each semester. Advanced Course students (MS3 and MS4) earn three credits each semester for class and one for lab.

Four-Year Scholarships

Awarded on a competitive basis to high school graduates who apply the year prior to college entrance. Winners are selected based on a whole person evaluation considering academic achievements, athletics, and extracurricular participation. High school guidance counselors have applications or for additional information students can visit the Cadet Command Web site at http://www.goarmy.com/rotc/scholarships.jsp.

Three- and Two-Year Scholarships

Awarded on campus to students already attending college. Students need not be enrolled in ROTC to apply and compete. Winners are selected based on a whole person evaluation considering the collegiate academic record plus other academic achievements. Army ROTC scholarships provide for tuition and fees and a book allowance along with a monthly stipend. Interested students should contact the Department of Military Science.

Pay and Allowances

Scholarship and Advanced Course students receive a monthly subsistence for up to 10 months of each school year (currently $420 month) and $600/semester for books. ROTC books, uniforms and equipment are provided at no cost.

Commissions Offered

Students completing all military science requirements and earning a baccalaureate degree may be commissioned as second lieutenants in the U.S. Army. Options for commissioned service either on active duty or in the Reserve Components (Army National Guard or Army Reserves) on a
part-time basis are determined by personal desire and the needs of the Army. All commissionees incur a service obligation of some type. Career branches of the Army are competitively designated each year. Nursing degree recipients who complete ROTC are commissioned directly into the Army Nurse Corps. Newly commissioned lieutenants attend initial officer training courses and, upon completion, report to challenging worldwide duty assignments if on Active Duty or to “hometown” Army Reserve or National Guard assignments if selected for Reserve Component duty. Students wishing to pursue graduate studies full-time leading to an advanced degree in law or medicine may compete for authorized delays before reporting to active duty.

Military Science (MS)

**MSL I**

The MSL I Course produces a Cadet who accepts the Army as a Values-based organization and embraces the scholar-athlete-warrior ethos; who is familiar with individual roles and responsibilities in support of team efforts and problem solving processes in military and non-military situations; who demonstrates oral and written communications skills, understands resilience and develops a commitment to learning.

**MSL101: Introduction to the Army**

MSL101 focuses on introduction to the Army and critical thinking. It introduces Cadets to the Army and the Profession of Arms. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a complete understanding of the Reserve Officers’ Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Cadets also learn how resiliency and fitness supports their development as an Army leader. Includes a weekly lab facilitated by MSL III Cadets and supervised by Cadre.

Semester: 12 wks.

Class length and Frequency: 50 mins. One session per week
Credit hours: 1 credit hr.

**MSL102: Foundations of Agile and Adaptive Leadership**

MSL102 introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, time management, goal setting, and communication. Cadets learn the basics of the communications process and the importance for leader’s to develop the essential skills to effectively communicate in the Army. Cadets will begin learning the basics of squad level tactics that will be reinforced during a weekly lab facilitated by MSL III Cadets and supervised by Cadre.

Semester: 12 wks.

Class length and Frequency: 50 mins. One session per week
Credit hours: 1 credit hr.

**MSL II**

The MSL II Course produces a Cadet grounded in foundational leadership doctrine and skills by following and leading small units to achieve assigned missions; who comprehends critical thinking and problem solving using TLPs; who comprehends the value of diversity and understands the officer’s role in leading change; and understands the fundamentals of the Army as a profession.

**MSL201 Leadership and Decision Making**

MSL201 focuses on leadership and decision making. The outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by Cadre.

Semester: 12 wks.

Class length and Frequency: 50 mins. Two sessions per week
Credit hours: 2 credit hrs.

**MSL 202 Army Doctrine and Team Development**

MSL202 focuses on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises at squad level. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by Cadre.

Semester: 12 wks.

Class length and Frequency: 50 mins. Two sessions per week
Credit hours: 2 credit hrs.

**MSLIII**

The MSL III Course produces a Cadet who possesses enhanced individual and collective skills including leader competencies; effectively leads formations at the squad and platoon level in a variety of military and non-military mission context scenarios; effective at receiving and giving peer evaluations; who is committed and disciplined ethically, academically, physically, and socially.

**MSL 301: Training Management and the Warfighting Functions**

MSL 301 focuses on training management and the warfighting functions. It is an academically challenging course where you will study, practice, and apply the fundamentals of Training Management and how the Army operates through the Warfighting functions. At the conclusion of this course, you will be capable of planning, preparing, and executing training for a squad conducting small unit tactics. Includes a lab per week using peer facilitation overseen by MSL IVs, supervised by ROTC Cadre.

Semester: 12 wks.

Class length and Frequency: 50 mins. Three sessions per week
Credit hours: 4 credit hrs.

**MSL 302: Applied Leadership in Small Unit Operations**

MSL 302 focuses on applied leadership in small unit operations. It is an academically challenging course where you will study, practice, and apply
the fundamentals of direct level leadership and small unit tactics at the platoon level. At the conclusion of this course, you will be capable of planning, coordinating, navigating, motivating and leading a platoon in the execution of a mission. Includes a lab per week using peer facilitation overseen by MSL IVs, supervised by ROTC Cadre. Successful completion of this course will help prepare you for the Cadet Summer Training Advance Camp, which you will attend in the summer at Fort Knox, KY.

**Semester:** 12 wks.

**Class length and Frequency:** 50 mins. Three sessions per week

**Credit hours:** 4 credit hrs.

**Prerequisite:** MSL401

**MSLIV**

The MSL IV Course produces an Officer who has a self-authored professional identity; thrives in operationally ambiguous environments; is a moral exemplar and is prepared to be an Army leader, skilled critical thinker, problem solver, and team builder; skilled oral and written communicator committed to the Army ethic and profession; who has advanced interpersonal skill, knowledge of training management, and understands Army Doctrine; is culturally aware and displays characteristics of a lifelong learner.

**MSL 401: The Army Officer**

MSL 401 Focuses on development of the Army Officer. It is an academically challenging course where you will develop knowledge, skills, and abilities to plan, resource, and assess training at the small unit level. You will also learn about Army programs that support counseling subordinates and evaluating performance, values and ethics, career planning, and legal responsibilities. At the conclusion of this course, you will be familiar with how to plan, prepare, execute, and continuously assess the conduct of training at the company or field grade officer level. Includes a lab per week overseeing MSL III lesson facilitation and supervised by ROTC Cadre.

**Semester:** 12 wks.

**Class length and Frequency:** 50 mins. Three sessions per week

**Credit hours:** 4 credit hrs.

**Prerequisite:** MSL301 and 302

**MSL402: Company Grade Leadership**

MSL 402 is an academically challenging course where you will develop knowledge, skills, and abilities required of junior officers pertaining to the Army in Unified Land Operations and Company Grade Officer roles and responsibilities. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, practical exercises, a mid-term exam, and an Oral Practicum as the final exam. The Oral Practicum explores your knowledge of how you will be prepared for the 20 Army Warfighting Challenges (AWFC) covered throughout the ROTC Advanced Course. Successful completion of this course will assist in preparing you for your BOLC B course and is a mandatory requirement for commissioning. Includes a lab per week overseeing MSL III lesson facilitation and supervised by ROTC Cadre.

**Semester:** 12 wks.

**Class length and Frequency:** 50 mins. Three sessions per week

**Credit hours:** 4 credit hrs.

**Prerequisite:** MSL401

**Military Science Lab (MSL 100-400), Field Training (FT), Physical Readiness Training (PRT) (1 credit-hour)**

Military Science lab and field training is where Cadets demonstrate practical application of lessons learned in the classroom. Cadets demonstrate their understanding of and ability to execute the Army Leader Requirements Model (ALRM) consisting of the 6 leader Attributes and Competencies during lab and field training. Future Officers must possess and exhibit character beyond reproach, thus a part of field training includes time outside of the structured class or lab environment. PRT is both an individual responsibility and a unit function and measures not only physical fitness but also leadership.

- Lab, FT, and PRT are participation-based (optional until student signs contract to continue towards commissioning as a Second Lieutenant.
- Students who do not complete required administrative paperwork to participate in the lab and field training (per Army regulations) will perform an alternative project focused on learning and gaining a better understanding of values-based leadership. Instructors will assign a series of short writing assignments based on leadership situations in movies and books.
DEPARTMENT OF MODERN LANGUAGES AND LITERATURE

Department Chair: Alva V. Cellini, Ph.D.

Faculty
Fr. M. Calabria, O.F.M., Ph.D.
A. Cellini, Ph.D.
G. Imhoff, Ph.D.
J. Medrano, Ph.D.
L. Simone, Ph.D.

The department offers a modern language major in Spanish and minors in French and Spanish, as well as a minor in Arabic Studies.

Students in modern language courses acquire fundamental skills in speaking, listening, reading, writing, and cultural literacy. In addition, majors take advanced courses in conversation and composition, literature, and culture and civilization. Non-majors are also free to enroll in the more advanced courses if their language background warrants it. Students may also select a modern language as a minor. Modern language majors and minors are strongly encouraged to spend a semester or year overseas. St. Bonaventure University oversees study opportunities in non-English speaking environments through the program CEA. The Study Abroad Office, Plassman, first floor, offers a variety of programs abroad available to all students. There are also short summer programs, including the SBU-Salamanca Immersion program in Salamanca, Spain. These programs are offered to non-majors as well.

- Arab and Islamic Studies, Minor (p. 243)
- French, Minor (p. 243)
- Spanish, BA (p. 243)
- Spanish, Minor (p. 244)

Arabic (ARBC)

ARBC-101 ELEM ARABIC I (3 Credits)
The fundamentals of the script and grammar of Modern Standard Arabic. Seeks to develop students’ proficiency and communication in listening, speaking, reading and writing. Students are also introduced to Egyptian Colloquial Arabic for conversational purposes.

ARBC-102 ELEM ARABIC II (3 Credits)
The fundamentals of the script and grammar of Modern Standard Arabic. Seeks to develop students’ proficiency and communication in listening, speaking, reading and writing. Students are also introduced to Egyptian Colloquial Arabic for conversational purposes.
Prerequisite(s): Take ARBC-101

ARBC-201 INTERM ARABIC I (3 Credits)
ARBC 201. Intermediate Arabic. Continues to develop language proficiency in Modern Standard Arabic. Focus is on the acquisition of more complex grammatical structures, expanding vocabulary, and on developing conversational competence in Egyptian Colloquial Arabic.
Prerequisite(s): Take ARBC-202

ARBC-202 INTERM ARABIC II (3 Credits)
A continuation of ARBC 201. Continues to develop language proficiency in Modern Standard Arabic. Focus is on the acquisition of more complex grammatical structures, expanding vocabulary, and on developing conversational competence in Egyptian Colloquial Arabic.
Prerequisite(s): TAKE ARBC-201

ARBC-301 ADV. INTERM. ARABIC I (3 Credits)
Advanced language study in reading and writing Modern Standard Arabic, using a variety of historical, literary and culturally oriented materials. Approximately half of the course is devoted to developing facility in Egyptian Colloquial Arabic for conversational purposes.
Prerequisite(s): TAKE ARBC-202

ARBC-302 ADV. INTERM. ARABIC II (3 Credits)
A continuation of ARBC 301. Advanced language study in reading and writing Modern Standard Arabic, using a variety of historical, literary and culturally oriented materials. Approximately half of the course is devoted to developing facility in Egyptian Colloquial Arabic for conversational purposes.
Prerequisite(s): TAKE ARBC-301

ARBC-335 SPECIAL TOPICS IN ARABIC: LANGUAGE (1-6 Credits)
Directed reading and research in topics dealing with Arabic language. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): Take ARBC-302

ARBC-335A SP TOP: ARABIC CULTURE & EGYPTIAN COLLOQUIAL CONVERSATION (3 Credits)
Directed reading and research in topics dealing with Arabic language. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): Take ARBC-302

ARBC-335B SPEC TOPICS: ARABIC LANGUAGE & CULTURE (1-6 Credits)
Directed reading and research in topics dealing with Arabic language. May be taken more than once for a maximum of 6 credits.
Corequisite(s): Take ARBC-302

ARBC-435 SPECIAL TOPICS IN ARABIC: LIT AND CULT (3 Credits)
Directed reading and research in topics dealing with Arabic cultures. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): Take ARBC-302

ARBC-435A SPECIAL TOPICS IN ARABIC: COUNTRIES (3 Credits)
Directed reading and research in topics dealing with Arabic cultures. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): Take ARBC-302

ARBC-435B SPECIAL TOPICS IN ARABIC: LIT AND CULT (3 Credits)
Directed reading and research in topics dealing with Arabic cultures. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): Take ARBC-302

ARBC-435C EGYPTIAN COLLOQUIAL ARABIC (3 Credits)
Directed reading and research in topics dealing with Arabic cultures. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): Take ARBC-302

French (FREN)

FREN-101 ELEM. FRENCH I (3 Credits)
The fundamentals of French grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

FREN-102 ELEM. FRENCH II (3 Credits)
The fundamentals of French grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.
Prerequisite(s): Take FREN-101
ITAL-335 SPECIAL TOPICS IN ITALIAN: LANGUAGE (1-6 Credits)
Directed reading and research in topics dealing with Italian language. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): TAKE ITAL-302

ITAL-370 SURVEY OF ITALIAN CINEMA (3 Credits)
Offered in English. This course is a survey of the development of film production in Italy from the beginning of the 20th century to the present. Students will be exposed to the particularity of Italian cinema, with its role of social critique exposing cultural, problematic and political corruption.

ITAL-435 SP TOP IN ITALIAN: LITERATURE & CULTURE (1-6 Credits)
Directed readings and research in topics dealing with Italian cultures. 1-6 credits. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): TAKE ITAL-302

Spanish (SPAN)

SPAN-ELEC SPANISH ELECTIVE (3 Credits)

SPAN-101 ELEM. SPANISH I (3 Credits)
The fundamentals of Spanish grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

SPAN-102 ELEM. SPANISH II (3 Credits)
The fundamentals of Spanish grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

SPAN-201 INTERMED SPANISH I (3 Credits)
Intermediate-level Spanish grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.

SPAN-202 INTERMED SPANISH II (3 Credits)
Intermediate-level Spanish grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.

SPAN-225 HISPANIC WOMEN WRITERS (3 Credits)
Offered in English. Students will study literature written by women in the Hispanic world from the past to the new millennium. Selected works will be approached from historical, literary, social, and political perspectives for a critical modern understanding of women’s roles, issues and their contributions to the humanities in the past and in contemporary Hispanic societies. Can be taken for credit by majors and minors as the one department course in English allowed. 3 Credits. On occasion.

SPAN-301 COMP & CONVERSATION I (3 Credits)
Developing competence through conversation, composition, and reading. Special emphasis on literary texts and cultural materials.

SPAN-303 ADV GRAMMAR & COMP I (3 Credits)
Advanced language study stressing composition, conversation and a comprehensive review of Spanish grammar.

SPAN-305 LATIN AMER CIV & CULTURE I (3 Credits)
A study of the cultural and social life of pre-Columbian Latin America, continuing with the political, social and cultural changes brought about by colonization and nationalization.

FREN-102 ELEM. FRENCH II (3 Credits)
The fundamentals of French grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials.

FREN-201 INTERMED FRENCH I (3 Credits)
A systematic review of French grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.

FREN-202 INTERMED FRENCH II (3 Credits)
A systematic review of French grammar with reading, practice in conversation and language analysis of selected literary texts and cultural materials.

FREN-301 FRENCH CONV & READ 1 (3 Credits)
Conversation and reading at the intermediate/advanced level stressing new vocabulary and idiomatic expressions.

FREN-480 FRENCH LITERATURE IN TRANSLATION (3 Credits)
Offered in English. This course introduces works of major French novelists, poets and playwrights from the Middle Ages to modern times. 3 credits. Fall or Spring.
SPAN-307 LATIN AM CULT AND CIVILIZATION II (3 Credits)
A study of Latin America, its social, political and cultural institutions in the 20th century, including major cultural issues and changes in modern Latin American societies.
Prerequisite(s): TAKE SPAN-303

SPAN-309 SPAN CIVILIZATION & CULTURE (3 Credits)
A study of the Spanish character and of Spain's major contributions to world civilization from the past to the present. It traces Spain's cultural evolution from early invasions: Celts, Goths, Visigoths, Iberians to Jews, Moslems, and Christians cultures in Medieval Spain with their traditions, customs, art, gypsy cultures dance and music to Spanish Civil War, the Franco Regime, and the Spanish transition to democracy.

SPAN-322 SPAN LIT. TRANSLATION II (3 Credits)
Offered in English, this course introduces the principal works of major novelists, poets and playwrights from 1700 to present day, including representative authors such as Unamuno, Machado, Garcia Lorca, Laforet, Matute and others. No previous knowledge of Spanish is required. Can be taken for credit by majors and minors as one department course in English allowed.

SPAN-324 LATIN AM LIT. IN TRANSLATION (3 Credits)
Offered in English, this course is designed to expose the reader to the major authors of the Latin American canon. Representative authors will include: Gabriel Garcia Marquez, Pablo Neruda, Jorge Borges, Mario Vargas Llosa, Isabel Allende among others. Can be taken for credit by majors and minors as the one department course in English allowed.

SPAN-325 HISPANIC WOMEN WRITERS (3 Credits)
Offered in English. Students will study literature written by women in the Hispanic world from the past to the new millennium. Selected works will be approached from historical, literary, social, and political perspectives for a critical modern understanding of women's roles, issues and their contributions to the humanities in the past and in contemporary Hispanic societies. Can be taken for credit by majors and minors as the one department course in English allowed.

SPAN-335 SP.TOP:MODERN LANG-LANG (3 Credits)
Directed reading and research in topics dealing with the language and grammar of Spanish. May be taken more than once for a maximum of 6 credits.
Prerequisite(s): TAKE SPAN-301

SPAN-401 SURVEY OF MID. AGE LITERATURE (3 Credits)
An introduction to a variety of texts, both canonical and non-canonical, of the Spanish Middle Ages. Major historical events and cultural influences affecting the Iberian peninsula from 711-1492 are closely examined, in tandem with the literature. Genres include the lyric, epic and popular poetry, early drama, and short prose, with an emphasis on the exempla. Relevant literary theory is taught as required, along with techniques in critical analysis, to elucidate key concepts.
Prerequisite(s): TAKE SPAN-303

SPAN-4015 SURVEY OF MID. AGE LITERATURE (3 Credits)
Prerequisite(s): TAKE SPAN-303

SPAN-402 SURVEY OF GOLDEN AGE OF LIT. (3 Credits)
An introduction to various canonical and non-canonical works of the 16th and 17th centuries, including poetry, drama, short prose, and the early novel. Principal authors include Santa Teresa de Avila, Maria de Zayas y Sotomayor, Luis de Gongora y Argote, Garcilaso de la Vega, Felix Lope de Vega, Tirso de Molina, Pedro Calderon de la Barca, Fray Luis de Leon, Miguel de Cervantes, Baltasar Gracian, San Juan de La Cruz, Francisco de Quevedo, and Garcia Rodriguez de Montalvo. Some literary theory is taught, as relevant, as are approaches to critical analysis.
Prerequisite(s): Take SPAN-303

SPAN-403 SURVEY OF SIXTH & XXTH CENTURY (3 Credits)
A study of major authors, works, trends, and movements from the Romantic Period to the 20th century. Includes selective writers such as Zorrilla, Becquer, Galdos, Pardo Bazan, Valera, Valle-Inclan, Benavente, Garcia Lorca, Jimenez, Matute, Rivas, and others.
Prerequisite(s): TAKE SPAN-303

SPAN-403Z Graduate Spanish (3 Credits)

SPAN-407 SURVEY OF LATIN AMER LIT. (3 Credits)
An introduction to the principal authors, works and movements of Latin American Literature from Pre-Columbian literatures to Modernism. Includes writers such as Las Casas, Ercilla, Inca Garcilaso de la Vega, Sor Juana Ines de la Cruz, Hernandez, Marti, Dario, and others.
Prerequisite(s): TAKE SPAN-303

SPAN-407Z GRADUATE SPANISH (3 Credits)

SPAN-408 SURVEY OF LAT AMER LIT II (3 Credits)
An introduction to the principal authors, works and movements of Latin American Literature from the Post Modernismo to the present. Includes writers such as Mistral, Paz, Neruda, Vallejo, Borges, Garcia Marquez, Vargas Llosa, Cortazar, Pontiatowska, Allende, and others.
Prerequisite(s): TAKE SPAN-303

SPAN-409 SPANISH (3 Credits)

SPAN-413 SEMINAR IN SPANISH (3 Credits)
Professional Semester.

SPAN-414 SIXTH CENTURY LITERATURE (3 Credits)
A detailed study of representative works from the Realist and Naturalist movement in Spain. Representative authors might include Perez Galdos, Pardo Bazan, Clarin and Caballero.

SPAN-415 XXTH CNTURY LITERATURE (3 Credits)
A detailed study of recent Peninsular Literature and its various genres (novel, short story, poetry, and drama) from the twentieth century to the present masterpieces of famous writers such as Lorca, Unamuno, Guillen, Alexaindre, Matute, Cela, Goytisolo, Laforet, Martin Gaite, Sastre, Montero, and other authors will be discussed and examined.
Prerequisite(s): SPAN-303

SPAN-419 CONT HISPANIC FILM & LIT (3 Credits)
Analysis and appreciation of selected contemporary Hispanic literary works, their film adaptations, and their social and cultural contexts.
Prerequisite(s): TAKE SPAN-303

SPAN-425 GENERATION OF 1898 (3 Credits)
A detailed study of novelist, poets, playwright, and philosophers who characterized the fitful intellectual generation post Spanish-American War. Representative authors include Unamuno, Azorin, Machado, Baroja and Valle-Inclan.
Prerequisite(s): Take SPAN-303
SPAN-426 HISPANIC THEATER (3 Credits)
A detailed study of representative theater texts and performances from post-Golden Age Spain to the present as well as from Latin America. Representative authors include: Garcia Lorca, Arrabal, Usiggl, Cabal, Saste, Benet I Jornet among others.
Prerequisite(s): TAKE SPAN-302

SPAN-435 SPPTOP: SPANISH: LIT & CULT (1-6 Credits)
Directed readings and research in topics dealing with Hispanic cultures and literatures. May be taken more than once for a maximum of 6 credits.

SPAN-435A IND. STY: SPANISH LITERATURE (3 Credits)

SPAN-435B SP ST SPANISH: SELECTED NOVELS OF MARIO Vargas Llosa: a Military Perspective (1-6 Credits)
Directed readings and research in topics dealing with Hispanic cultures and literatures. May be taken more than once for a maximum of 6 credits.

SPAN-435E SP TOP: CINCO MAESTROS: THE LATIN AMERICAN SHORT STORY (3 Credits)
Directed readings and research in topics dealing with Hispanic cultures and literatures. May be taken more than once for a maximum of 6 credits.

SPAN-435F SP TOP: FICTION & CULTURE IN HISPANIC FILMS (3 Credits)
Directed readings and research in topics dealing with Hispanic cultures and literatures. May be taken more than once for a maximum of 6 credits.

SPAN-435G SP TOP: TEATRO Y SOCIEDAD EN EL SIGLO XX (3 Credits)
Directed readings and research in topics dealing with Hispanic cultures and literatures. May be taken more than once for a maximum of 6 credits.

SPAN-450 COMPREHENSIVE EXAM (0 Credits)
Students who are graduating with a major in Spanish must register for this course in the semester of their official graduation. Students who are majoring in Modern Languages must register for this course if Spanish is their primary language. Registering in this course will enable students to take the required Comprehensive Exam. A grade of 75% will be necessary to pass the exam and the class.

SPAN-9999 SPANISH ELECTIVE (3 Credits)

Modern Languages (ML)
ML-300 INTRO INTERCULTURAL COMMUNICATION (3 Credits)
This course will analyze how culture defines one’s view of the world and shapes one’s (re)actions, beliefs, and expectations. It will also teach students to understand techniques for living and working successfully in a multicultural setting, be it with people from other countries, or American citizens from varied cultural, ethnic, and/or generational backgrounds. Appropriate for students interested in becoming a genuine citizen of the world.

Arabic and Islamic Studies, Minor
Arabic and Islamic Studies is available for those students who wish to combine a study of the Arabic language with courses in Islamic religion and culture.

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARBC-201</td>
<td>INTERM ARABIC I</td>
<td>3</td>
</tr>
<tr>
<td>ARBC-202</td>
<td>INTERM ARABIC II</td>
<td>3</td>
</tr>
<tr>
<td>ARBC-301</td>
<td>ADV. INTERM. ARABIC I</td>
<td>3</td>
</tr>
<tr>
<td>ARBC-302</td>
<td>ADV. INTERM. ARABIC II</td>
<td>3</td>
</tr>
<tr>
<td>THEO-203</td>
<td>ISLAM: RELIGION &amp; CULTURE</td>
<td>3</td>
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Select one of the following electives: 3

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>THEO-307</td>
<td>CHRISTIAN-MUSLIM REL: PAST, PRES, FUT</td>
<td></td>
</tr>
<tr>
<td>WS-330</td>
<td>WS ANCIENT/MOD MIDDLE EAST</td>
<td></td>
</tr>
<tr>
<td>HIST-365</td>
<td>HIST OF MODERN MIDDLE EAST</td>
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</tr>
</tbody>
</table>

Total Credits 18

French, Minor
The French Minor will consist of 18 hours of courses, some taught on campus and some taken abroad or at other institutions in the United States.

Required courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FREN-201</td>
<td>INTERMED FRENCH I</td>
<td>3</td>
</tr>
<tr>
<td>FREN-202</td>
<td>INTERMED FRENCH II</td>
<td>3</td>
</tr>
<tr>
<td>FREN-301</td>
<td>FRENCH CONV &amp; READ 1</td>
<td>3</td>
</tr>
<tr>
<td>FREN-480</td>
<td>FRENCH LITERATURE IN TRANSLATION</td>
<td>3</td>
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</tbody>
</table>

Select six credits in French taught at an approved institution abroad or in the United States

Total Credits 18

Modern Languages: Spanish, BA

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>Classical or Modern Language 202</td>
<td></td>
<td>3</td>
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</table>

General Education Requirements (p. 161) 37

General Electives 47

Total Credits 120

1 Above 102 level. FREN-201, FREN-202, FREN-301 and FREN-303 are required courses plus 21 credit hours of upper-level Spanish courses.
2 A Spanish major must complete a 202 level course or higher in a second modern language or they may select LAT-101 and LAT-102 and the sequence: CULT-201 and CULT-202.

Comprehensive Exam Note: All Modern Language Department majors must register for SPAN-450 in the semester of their graduation in order to take and pass a comprehensive exam in their respective field. The written and oral portions of the exam will be graded as pass or fail. A grade of 75% is required to pass the exam. Upon registration, students will be given a description of the exam in order to help them prepare.

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modern Language - Spanish</td>
<td>3</td>
<td>Modern Language - Spanish</td>
<td>3</td>
</tr>
<tr>
<td>FS/THEO-101</td>
<td>3</td>
<td>PHIL-104</td>
<td>3</td>
</tr>
<tr>
<td>SBU-101</td>
<td>2</td>
<td>ENG-102</td>
<td>3</td>
</tr>
<tr>
<td>Elective/Modern or Classical Language</td>
<td>3</td>
<td>SBU-102</td>
<td>1</td>
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<tr>
<td>ENG-101</td>
<td>3</td>
<td>Elective/Modern or Classical Language</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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<td></td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modern Language - Spanish</td>
<td>3</td>
<td>Modern Language - Spanish</td>
<td>3</td>
</tr>
<tr>
<td>Historical Studies Distribution</td>
<td>3</td>
<td>Social Sciences Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Distribution</td>
<td>3</td>
<td>Quantitative Literacy Distribution</td>
<td>3</td>
</tr>
</tbody>
</table>
Spanish, Minor

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student’s academic adviser.

Majors and minors may select one Modern Languages course taught in English.

Spanish, Minor

For non-majors, 18 credit hours above the 102 level constitute a minor in Spanish. A minor must be declared no later than the second semester of the junior year.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 18 credit hours above the 102 level ¹</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

¹ SPAN-201, SPAN-202, SPAN-301 and SPAN-303 are required courses, plus any upper-level Spanish courses to complete the minor.
Philosophy Pre-Law Program

The department offers a philosophy pre-law program for those students interested in philosophy or a general arts education and in pursuing a legal career. It is generally acknowledged that a concentration in philosophy and the other arts provides an appropriate basis for the study of law. Students in the pre-law program complete the requirements of the Philosophy, Law and Politics track. Additional courses are selected in consultation with the department's pre-law advisor (who has a law degree) that will assist the student in preparing for law school and beyond.

- Philosophy, BA (p. 249)
- Philosophy, Minor (p. 250)

Philosophy Major Program

Philosophers inquire into the great questions that address the human condition and the basic orientations that shape our understanding of contemporary life. Our department is especially concerned to promote a genuine engagement with the most important issues that concern us today. From matters of law and politics to ethics and medicine, from justice and society to art and literature, we enable students to thoughtfully understand and critically assess the essential dimensions of these pressing issues. In the process, we help students to develop crucial cognitive skills in logical thinking, interpretive comprehension, critical evaluation, and argumentative writing. Moreover, the department offers a program of study that can be tailored to the student’s specific interests. In fact, it expressly encourages the incorporation of relevant courses from other disciplines into the philosophy major. The program is open and flexible, especially for those interested in philosophy as a second major.

The Philosophy Department allows students to design their own major around a basic structure that consists of

1. a common core of six courses and
2. four elective course, two of which must be philosophy courses at the 300 level or higher.

The designed major must be developed with the guidance of a Philosophy faculty advisor and approved by the Chair.

Philosophy (PHIL)

PHIL-ELEC PHIL (3 Credits)

PHIL-102 INTRO TO PHILOSOPHY (3 Credits)
The aim of this course is to initiate a self-awakening in the student through a confrontation with the perennial problem of the nature of human existence. Students will be guided in the confrontation by the development and exercise of their capacity for critical reflection. Within the context of this aim, specific issues in epistemology, metaphysics and ethics will be considered.

PHIL-102H INTRO. TO PHILOSOPHY (HONORS) (3 Credits)
Restrictions: RG.HON

PHIL-104 INTRODUCTION TO ETHICS (3 Credits)
Ethics enquires into the fundamental perspectives and principles that bear on the evaluation of human conduct. It examines prominent theories about what constitutes a good life, articulates relevant principles of right action, poses basic questions about the nature of morality and engages with various moral problems that confront the individual and society. This course endeavors to acquaint students with traditions of moral inquiry and to equip them with key concepts

PHIL-104H ETHICS HONORS (3 Credits)
Ethics enquires into the fundamental perspectives and principles that bear on the evaluation of human conduct. It examines prominent theories about what constitutes a good life, articulates relevant principles of right action, poses basic questions about the nature of morality and engages with various moral problems that confront the individual and society. This course endeavors to acquaint students with traditions of moral inquiry and to equip them with key concepts by which to exercise their own moral reflection.

Restrictions: RG.HON

PHIL-105 HONORS INTRO TO ETHICS (3 Credits)
Ethics enquires into the fundamental perspectives and principles that bear on the evaluation of human conduct. It examines prominent theories about what constitutes a good life, articulates relevant principles of right action, poses basic questions about the nature of morality and engages with various moral problems that confront the individual and society. This course endeavors to acquaint students with traditions of moral inquiry and to equip them with key concepts by which to exercise their own moral reflection.

Restrictions: RG.HON

PHIL-111 INTRODUCTION TO CRITICAL THINKING (3 Credits)
Introduction to Critical Thinking introduces the student to the concepts and techniques of critical thinking, focusing on the analysis and evaluation of arguments, creating cogent and sound arguments, recognizing errors in reasoning, evaluating definitions, determining the credibility of sources, and testing claims by means of seeking disconfirming evidence.

PHIL-203 SOURCES OF TRUTH (3 Credits)

PHIL-204 STRUCT & MEAN OF REAL. (3 Credits)

PHIL-210 METAPHYSICS (3 Credits)
This course focuses on the three traditional objects of metaphysical inquiry: God, Person and World. At least two metaphysical traditions are compared: the Christian metaphysical tradition and a modern (contemporary) non-Christian tradition. The overall objective is to challenge students’ cultural presuppositions and to guide their attempt to develop a consistent account of the relation between God, Person and World.
PHIL-221 GOOD SOCIETY (3 Credits)
This course introduces students to the major theories of social and political organization in the western philosophical tradition. Special attention is paid to the principles which inform our evaluation of societies and their practices. Such principles include peace, justice, liberty, human rights, the public interest and the idea of a common good. The aim of this course is to give students an opportunity to develop a critical understanding of such theories and values, and to encourage an enlightened and principal participation in the public discourse of a democratic society.

PHIL-301 ETHICS (3 Credits)
The aim of this course is to give students a deeper understanding of some of the fundamental issues and perspectives regarding morality that were introduced in Clare 304 (The Good Life). Topics include the source, range, and truth-value of moral claims, the existence of moral facts, classic and contemporary normative moral theory, value theory, moral reasoning, and descriptive studies of moral decision-making and action.

PHIL-301A PHILOSOPHY OF NONVIOLENCE (3 Credits)

PHIL-310 SPECIAL STUDIES IN PHIL. (3 Credits)
An intensive study of a special philosopher, a philosophical movement or a philosophical issue. The content of the course will be announced prior to the semester at which it is offered. The course may be retaken provided the content of the course has changed.

PHIL-310A PHILOSOPHY & LITERATURE (3 Credits)
PHIL-310AA WOMEN AND THE LAW (3 Credits)
PHIL-310AB 'THE WAY OF UNKNOWING' (3 Credits)
PHIL-310AC THE BILL OF RIGHTS (3 Credits)
PHIL-310AD THE DEATH PENALTY (3 Credits)
PHIL-310AE PHILOSOPHY OF AGING (3 Credits)
PHIL-310AF MODERN ART AND THEORY (3 Credits)
An intensive study of a special philosopher, a philosophical movement or a philosophical issue. The content of the course will be announced prior to the semester at which it is offered. The course may be retaken provided the content of the course has changed.

PHIL-310AG SP STUDIES: ENVIRONMENTAL ETHICS (3 Credits)
PHIL-310AH SP TOPEVIL IN MODERN THOUGHT (3 Credits)
Restrictions: RG.HON

PHIL-310A SP TOP:EVIL IN MODERN THOUGHT (3 Credits)

PHIL-310AAL Sp Top: Existence & Being (3 Credits)
PHIL-310AM Sp Top: Social and Political Philosophy (3 Credits)
PHIL-310AN SP TOP. CJ THEORY/PRACTICE (3 Credits)
PHIL-310B PHILOSOPHY OF FILM (3 Credits)
PHIL-310C PHILOSOPHY AND CULTURE (3 Credits)
PHIL-310D THE SIXTIES (3 Credits)
PHIL-310E 20TH CENTURY ETHICS (3 Credits)
PHIL-310F FRANCISCAN PHILOSOPHY (3 Credits)
PHIL-310G CONTEMP. ETHICAL & POL. ISSUES (3 Credits)
PHIL-310I CONTEMPORARY EUROPEAN (3 Credits)
PHIL-310J PHILOSOPHY OF ST. BONA (3 Credits)
PHIL-310K NIETZSCHE (3 Credits)
PHIL-310L CONTEMPORARY METAETHICS (3 Credits)
PHIL-310M PHIL OF JOHN DUNS SCOTUS (3 Credits)
PHIL-310ME MEDICINE, ETHICS & LAW (3 Credits)
PHIL-310MEH MEDICINE, ETHICS & LAW HONORS (3 Credits)
Restrictions: RG.HON

PHIL-310N FEMINIST PHILOSOPHY (3 Credits)
PHIL-310P ENVIRONMENTAL PHILOSOPHY (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310PW SP TOP: FICTION & POSSIBLE WORLDS (3 Credits)
PHIL-310Q GANDHI & KING (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310QQ SP TOP: OPPRESSION & PRIVILEGE (3 Credits)
PHIL-310R EPISTEMOLOGY:SELECTED TOPICS (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310S PHIL OF ST. THOMAS AQUINAS (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310T PHILOSOPHY OF ECONOMICS (1-4 Credits)
PHIL-310U ETHICS (3 Credits)
PHIL-310V ETHICAL THEORY (3 Credits)
Prerequisite(s): Take PHIL-101
PHIL-310W METAPOLITICS (3 Credits)
PHIL-310X MORAL THEORY (3 Credits)
PHIL-310Y THE CONTEMPLATIVE LIFE (3 Credits)
PHIL-312 SYMBOLIC LOGIC (3 Credits)
This course is designed to introduce students to formal languages and to the relation between logic and language. Topics covered include: symbolization, validity, soundness, truth-tables, truth-connectives, formal proof, sentential logic, quantifiers, and predicate logic.

PHIL-316 PHILOSOPHY OF MIND (3 Credits)
An examination of various views of the nature of a person and the philosophical issues and problems which arise within these views. Includes such topics as the mind/body problem, freedom versus determination, the self and personal identity, action theory and the concepts of philosophical psychology.
Prerequisite(s): Take PHIL-210
PHIL-319 HUMAN IMAGES (3 Credits)
A literary and philosophical study of diverse views of man and the human situation, principally as reflected in western literary classics.

PHIL-320 EXISTENTIALISM (3 Credits)
A critical study of philosophical and literary representatives of the existentialist movement. The origins of existentialism in the 19th century as well as its formulations in the 20th century are considered. Authors covered include Kierkegaard, Nietzsche, Sartre, Camus, Kafka, Hesse and others.

PHIL-324 MOCK TRIAL (3 Credits)
A course for students interested in participating in the annual National Intercollegiate Mock Trial Competition and for those who simply want to know more about the American trial process. The overall objective of the course is to acquaint students with the fundamental process of the adversarial system of justice, including the basic rules of trial procedure and evidence.

PHIL-325 PHILOSOPHY OF LAW (3 Credits)
A critical analysis of the basic theories of law and of the philosophical systems upon which they are based. Special attention will be paid to particular problems in the philosophy of law which are relevant to the contemporary social and political situation.
Prerequisite(s): take PHIL-104, PHIL-104H, PHIL-105 or CLAR-104

PHIL-326 LEGAL REASONING (3 Credits)
An examination of the principles and maxims that govern judicial reasoning through intensive analysis of selected statutes, judicial opinions and leading articles on the topic of legal reasoning. Students will be taught how to brief cases and will be exposed to the Socratic question-answer method of teaching frequently used in law school.

PHIL-327 LEGAL ETHICS (3 Credits)
An exploration of moral issues inherent in the practice of law, such as the limits of the duty of loyalty to one's client, confidentiality, lawyer advertising, the duty to make legal services available to all citizens, plea-bargaining, the use of unfair tactics, conflicts of interest and the extent to which the lawyer is subject to different moral norms than the average citizen. Students will learn basic legal research skills which can be employed to research and evaluate major issues of legal ethics.
Prerequisite(s): PHIL-104

PHIL-328 PARALEGAL INTERNSHIP (3-6 Credits)
The internship is designed to provide familiarity with aspects of the American legal system that will in turn form a practical basis for philosophical evaluations of that system. Each intern will be expected to serve 12 hours per week, usually for two consecutive semesters. Interns will be introduced to key legal concepts, principles and issues operating in various areas of law, and will be taught basic research skills. The particular areas of training will be a function of the interest and expertise of supervising attorneys.

PHIL-329 PARALEGAL INTERNSHIP (3 Credits)
The internship is designed to provide familiarity with aspects of the American legal system that will in turn form a practical basis for philosophical evaluations of that system. Each intern will be expected to serve 12 hours per week, usually for two consecutive semesters. Interns will be introduced to key legal concepts, principles and issues operating in various areas of law, and will be taught basic research skills. The particular areas of training will be a function of the interest and expertise of supervising attorneys.

PHIL-330 BUSINESS ETHICS (3 Credits)
This course is designed as a critique of the business enterprise. It teaches recognition of ethical problems in the business and proposes methods toward their solution. Topics discussed include whistle-blowing, issues in marketing and advertising, consumer rights, ecological issues and employee and management issues.
Prerequisite(s): TAKE PHIL-104

PHIL-331 PHILOSOPHY OF ECONOMICS (3 Credits)
A philosophical investigation of the concepts, methods and implications of economic theory. Special attention will be paid to conflicting assumptions concerning social organization, individual rationality and values in alternative economic theories. The course will also consider the evaluation of economic policies and economic system from an ethical perspective.

PHIL-332 SOC. & ECON. JUSTICE (3 Credits)
This course will begin an examination of various theories of justice. A liberal view like that of John Rawls, a libertarian view like that of Robert Nozick and a socialist view like that of Karl Marx will be carefully examined. The second part of the course will be spent examining and discussing various case studies. We will consider how our understanding of different theories of justice can help us resolve the conflicts and disputes that arise in these case studies. Also, some attention will be paid to contemporary critiques of American society.

PHIL-332A SOCIAL & ECONOMIC JUSTICE (3 Credits)

PHIL-333 NEWS MEDIA ETHICS (3 Credits)
A practical analysis of the ethical problems of the news media. Teaches recognition of ethical problems of the press and approaches to their solution. Designed to meet the concerns and interests of students planning a career in any branch of the news media.

PHIL-334 WAR AND MORALITY (3 Credits)
A philosophical investigation of many of the issues surrounding modern war. Topics for analysis and discussion include the justice of war (jus ad bellum), the justice of the conduct of war (jus in bello), the principles of double effect and military necessity, obedience to superior orders, justice of nuclear war, concept of nuclear deterrence and pacifism.

PHIL-335 PHIL. OF SCIENCE & MEDICINE (3 Credits)
The aim of this course is to introduce the student to the conceptual and methodological aspects of modern science and medicine. Special emphasis will be given to the relation between science, ethics, and medicine and to the analysis of such medical concepts as 'health' and 'disease.'

PHIL-336 PHILOSOPHY OF PSYCHOLOGY (3 Credits)
A critical reflection on the methods, principles and basic concepts of contemporary psychology. Particular attention is given to the special problems involved with a specific study of human action.

PHIL-337 DEATH AND DYING (3 Credits)
A study of the philosophical aspects of death and dying, as they rise out of a personal confrontation with one's own feelings and attitudes toward death.
PHIL-338 HEALTH CARE ETHICS (3 Credits)
An exploration of the ethical and value issues inherent in modern medicine with particular emphasis on the issues of euthanasia, suicide, informed consent, abortion, truth-telling and confidentiality, allocation of scarce resources and care of the dying.
Prerequisite(s): PHIL-104

PHIL-339 PHILOSOPHY OF LOVE & SEX (3 Credits)
A critical examination of various problems in the areas of sexual language, monogamous marriage and its alternatives, pre-marital and extra-marital sex, the logic of deviation, feminism, pornography, abortion and the concept of love.

PHIL-340 APPLIED ETHICS INTERNSHIP (1-3 Credits)
The course allows qualified students to gain supervised experience in an area where ethical questions are faced on a daily basis. The internship currently includes work as a para-medical intern and as an assistant to a newspaper editor.

PHIL-341 ENVIRONMENTAL ETHICS (3 Credits)
An advanced, applied ethics seminar which examines three particular moral issues directly implied in our use (and abuse) of the natural environment: Distributive justice with respect to distant people intergenerational justice with reference to future generations and the rights of animals. A basic ethics course is presupposed. Students will be expected to participate in seminar discussions, to prepare brief papers summarizing articles in the philosophy journals such as Philosophy Today and Environmental Ethics and to present and defend, in the seminar, a position paper on some aspect of one of the three issues noted above.
Prerequisite(s): Take PHIL-104

PHIL-342 ETHICAL DIMENSIONS OF FRANCISCAN ECON (3 Credits)
In the liberal arts educational tradition of the Middle Ages, economics and economic theory was treated as a subset of ethics. This course aims to explore the unique contribution to economic thought made by the Franciscan movement in the High and Late Middle Ages. Emerging at the same time that Europe was undergoing a profound transformation from a gift to a mercantile economy (that is, at the dawn of modern capitalism), the Franciscan tradition proposed an alternative (evangelical) vision of how human beings can live justly and ethically in a complex world in which money and the ownership of property play such critical roles in human social relations. In short, this course will examine the various aspects of the medieval Franciscan notion of poverty and its meaning and relevance for Medieval as well as contemporary society.

PHIL-344 PHILOSOPHY OF AGING (3 Credits)
This course teaches students to identify and analyze the fundamental concepts used by people in thinking about aging - concepts such as health, disease, autonomy and dependence, dignity, wisdom, natural and artificial, well-being and meaning - and to critically assess the normative roles of, and presuppositions underlying, such concepts.

PHIL-345 VALUES AT THE END OF LIFE (3 Credits)
This course deals with the fundamental value issues faced by dying people and those who care for them. After a brief overview of physical and medical aspects of dying, the focus of the course is on the psychosocial and philosophical factors that can contribute to dying well. Those factors include autonomy, relatedness and paternalism, communication and connection, and meaning and transcendence.

PHIL-358 THE PHILOSOPHY OF GANDHI (3 Credits)
The philosophy of Gandhi course introduces students to Gandhi's metaphysical views about the nature of truth and reality as well as to his views on ethics and his political philosophy, on how human beings should conduct themselves as individuals and as a community. The course will critically examine the various vows required of members of Gandhi's community and the philosophical arguments Gandhi offered for requiring such vows. Finally, the course will examine critically the connection between the personal and political aspects of Gandhi's thought.

PHIL-361 Evil and Modern Thought (3 Credits)

PHIL-364 HISTORY OF ANCIENT AND MEDIEVAL HISTORY (3 Credits)
A course designed to trace a number of the basic ideas and problems from their beginnings in Ancient Greece to their development in the Middle Ages. A special effort will be made to display a continuity with respect to the philosophical enterprise considered by major philosophers and schools from 585 B.C. to 1600 A.D.

PHIL-365 FRANCISCAN PHILOSOPHY (3 Credits)
This course offers students the opportunity to study the broad range of metaphysical, epistemological, ethical and political ideas found in the chief Franciscan philosophers of the High Middle Ages: St. Bonaventure, John Duns Scotus and William of Ockham. Which Franciscan philosopher is studied varies from semester to semester, course may be taken repeatedly provided that the topic of study differs.

PHIL-365A SP: TOP SCOTUS AND OCKHAM (3 Credits)

PHIL-365B SP: GOD, CREATION AND PERSON (3 Credits)
This introductory course in Franciscan Philosophy establish a foundational approach to the fundamental characteristics of the Franciscan School in both its wisdom and scientific dimensions. It will serve as an introduction to the academic discipline of philosophy in general, especially the role of argument, and in particular to issues of epistemology, metaphysics, natural theology, the nature and limits of religious language, the problem of evil, and philosophic anthropology. Where possible, the Franciscan approach to these philosophical issues will be presented and contrasted with the Dominican tradition.

PHIL-365C Franciscan Philosophy: Theory of Values (3 Credits)

PHIL-366 PHILOSOPHY OF ST. THOMAS AQUINAS (3 Credits)
This course is a general course on the philosophy of St. Thomas Aquinas (1225-1274) and will treat as many of the general areas of Aquinas' thought as possible. Among the topics to be considered are the metaphysics of being: God and His Nature; the human person; intellect and will; the end of the human person; happiness; the virtues; law and the political community.

PHIL-367 HISTORY OF MODERN PHILOSOPHY (3 Credits)
An investigation of the leading trends in 17th and 18th century philosophy from Descartes to Kant.

PHIL-369 NIETZSCHE (3 Credits)
This course will examine Nietzsche's seminal writings with an eye to their influence on contemporary philosophy. Such central topics in Nietzsche as 'the death of God,' 'the will to power,' 'the Overman,' and 'nihilism' will be addressed as well as the appropriation of Nietzsche in 'post-modern' thought.

PHIL-413 AMERICAN PHILOSOPHY (3 Credits)
An introduction to the chief American philosophers: Emerson, Thoreau, Pierce, Royce, James and Dewey.

PHIL-450 INDEPENDENT STUDY (1-6 Credits)
Independent Study Directed reading and research.
PHIL-450A INDEPENDENT STUDY (3-6 Credits)
PHIL-450B INDEPENDENT STUDY (1-6 Credits)
PHIL-450C IND STY: ANCIENT & MEDIEVAL PHILOSOPHY (1-6 Credits)
PHIL-450D IND STY: ETHICAL EVALUATION OF ROBOTICS W MENTAL & PHYSICAL CARE OF THE ELDERLY (3 Credits)
PHIL-450E SP.STY IN ENVIRONM'L JUSTICE (3 Credits)
PHIL-450F TRANSCENDENTALISM: EMERSON & THOREAU (3 Credits)

Independent Study Directed reading and research.

PHIL-498 SENIOR RESEARCH SEMINAR (3 Credits)

This course covers research methodologies and skills, and provides the philosophy major with both structural support and mentoring for developing a successful ‘senior essay’ in order to satisfy the department’s comprehensive requirement for graduation.

**Philosophy, BA**

Philosophers inquire into the great questions that address the human condition and the basic orientations that shape our understanding of contemporary life. Our department is especially concerned to promote a genuine engagement with the most important issues that concern us today. From matters of law and politics to ethics and medicine, from justice and society to art and literature, we enable students to thoughtfully understand and critically assess the essential dimensions of these pressing issues. In the process, we help students to develop crucial cognitive skills in logical thinking, interpretive comprehension, critical evaluation, and argumentative writing. Moreover, the department offers a program of study that can be tailored to the student’s specific interests. In fact, it expressly encourages the incorporation of relevant courses from other disciplines into the philosophy major. The program is open and flexible, especially for those interested in philosophy as a second major.

The Philosophy Department allows students to design their own major around a basic structure that consists of

1. a common core of six courses and
2. four elective course, two of which must be philosophy courses at the 300 level or higher.

The designed major must be developed with the guidance of a Philosophy faculty advisor and approved by the Chair.

**Requirements**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHIL</td>
<td><strong>Philosophy</strong></td>
<td>30</td>
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<tr>
<td>PHIL-102</td>
<td>Intro to Philosophy</td>
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<tr>
<td>PHIL-104</td>
<td>Introduction to Ethics</td>
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<tr>
<td>PHIL-111</td>
<td>Introduction to Critical Thinking</td>
<td></td>
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<tr>
<td>PHIL-210</td>
<td>Metaphysics</td>
<td></td>
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<tr>
<td>PHIL-404</td>
<td>History of Ancient &amp; Medieval Hist</td>
<td></td>
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<tr>
<td>or PHIL-407</td>
<td>History of Modern Philosophy</td>
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<tr>
<td>or PHIL-361</td>
<td>Evil and Modern Thought</td>
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<tr>
<td>PHIL-498</td>
<td>Senior Research Seminar</td>
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<td>Select four PHIL electives from Tracks below</td>
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<tr>
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<td>General Education Requirements (p. 161)</td>
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<td>Foreign Language</td>
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**General Electives**

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<tr>
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<td><strong>Total Credits</strong></td>
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1. PHIL-104 and one additional Philosophy course are required General Education courses that will both count towards Philosophy Major requirements. As a result, in order to meet the 120 credit hour degree requirements, Philosophy majors must take an additional six (6) credit hours of general electives.

2. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language that will count toward their General Electives.

A senior thesis is also required. Seniors must register for three credits of 498 in the fall semester of senior year.

To help guide the student, the Philosophy faculty has developed four tracks that constitute preapproved topic areas for the major. A major in Philosophy may be earned by

1. completing the six required courses above, and
2. fulfilling the requirements for any one of the tracks below or selecting four courses in consultation with the Philosophy faculty advisor.

**Track 1: Philosophy, Law and Politics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHIL-325</td>
<td>Philosophy of Law</td>
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<tr>
<td>PHIL-326</td>
<td>Legal Reasoning</td>
<td>3</td>
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<tr>
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<td>Select one of the following:</td>
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<tr>
<td>PHIL-327</td>
<td>Legal Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL-332</td>
<td>Soc. &amp; Econ. Justice</td>
<td></td>
</tr>
<tr>
<td>POLS-351</td>
<td>Politics of Social Policy</td>
<td></td>
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<tr>
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<td>Select one of the following:</td>
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<tr>
<td>POLS-306</td>
<td>Courts in Amer. Politics</td>
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<tr>
<td>POLS-420</td>
<td>Cons. Law I. Civil Rights</td>
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<tr>
<td>POLS-421</td>
<td>Constit. Law II: Pol Struct.</td>
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</tr>
<tr>
<td>PHIL-324</td>
<td>Mock Trial</td>
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**Total Credits**

12

**Track 2: Philosophy and Social Justice**

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<tr>
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<tr>
<td>PHIL-332</td>
<td>Soc. &amp; Econ. Justice</td>
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<tr>
<td>PHIL-301A</td>
<td>Philosophy of Nonviolence</td>
<td>3</td>
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<tr>
<td>or PHIL-358</td>
<td>The Philosophy of Gandhi</td>
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<td>Select two of the following:</td>
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<td>PHIL-341</td>
<td>Environmental Ethics</td>
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<tr>
<td>POLS-240</td>
<td>Controversies-Publ Policy</td>
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<tr>
<td>POLS-251</td>
<td>American Urban Conflict</td>
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<tr>
<td>POLS-315</td>
<td>Environmental Politics</td>
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<tr>
<td>POLS-351</td>
<td>Politics of Social Policy</td>
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<tr>
<td>POLS-420</td>
<td>Cons. Law I. Civil Rights</td>
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<tr>
<td>SOC-205</td>
<td>Sociology of Inequality</td>
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<tr>
<td>SOC-413</td>
<td>Minorities in the United States</td>
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**Total Credits**

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Track 3: Philosophy, Art & Literature

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<td>AESTHETICS</td>
<td>3</td>
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<tr>
<td>PHIL-319</td>
<td>HUMAN IMAGES</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-320</td>
<td>EXISTENTIALISM</td>
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<tr>
<td>PHIL-409</td>
<td>NIETZSCHE</td>
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Select one of the following:

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<td>ENG-390</td>
<td>LITERARY THEORY</td>
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<tr>
<td>ARTH-322</td>
<td>CONTEMPORARY ISSUES IN ART</td>
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<tr>
<td>VA-341</td>
<td>MODERN ART &amp; THEORY</td>
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Total Credits 12

Track 4: Philosophy, Ethics and Medicine

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<tr>
<td>PHIL-335</td>
<td>PHILOSOPHY OF SCIENCE &amp; MEDICINE</td>
<td>3</td>
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<tr>
<td>PHIL-338</td>
<td>HEALTH CARE ETHICS</td>
<td>3</td>
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Select two of the following:

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<td>DEATH AND DYING</td>
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<td>PHIL-345</td>
<td>VALUES AT THE END OF LIFE</td>
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<td>PSYC-330</td>
<td>HEALTH PSYCHOLOGY</td>
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<tr>
<td>SOC-408</td>
<td>HEALTH AND ILLNESS</td>
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Total Credits 12

Philosophy Pre-Law Program

The department offers a philosophy pre-law program for those students interested in philosophy or a general arts education and in pursuing a legal career. It is generally acknowledged that a concentration in philosophy and the other arts provides an appropriate basis for the study of law. Students in the pre-law program complete the requirements of the Philosophy, Law and Politics track. Additional courses are selected in consultation with the department’s pre-law advisor (who has a law degree) that will assist the student in preparing for law school and beyond.

Bachelor of Arts with a Major in Philosophy

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<td>PHIL-104</td>
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<td>ENG-102</td>
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<td>Foreign Language</td>
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<td>General Education Requirements</td>
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Second Year

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<th>Fall</th>
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<th>Spring</th>
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<tr>
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<td>PHIL-210</td>
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Third Year

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<th>Spring</th>
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<td>Philosophy Elective</td>
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<tr>
<td>PHIL-361</td>
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<td>PHIL-404</td>
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<td>PHIL-407</td>
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<td>15</td>
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Fourth Year

<table>
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<tr>
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<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tr>
<td>PHIL-498</td>
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</table>

Total Credits 120

1 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student’s academic adviser.

Philosophy, Minor

The department also offers minors in Philosophy that enable students to pursue course work that will supplement their major field of study. Each minor consists of the following requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHIL-104</td>
<td>INTRODUCTION TO ETHICS</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-111</td>
<td>INTRODUCTION TO CRITICAL THINKING</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-102</td>
<td>INTRO TO PHILOSOPHY</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL-210</td>
<td>METAPHYSICS</td>
<td>3</td>
</tr>
<tr>
<td>Select three electives at the 300 level or higher</td>
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</tbody>
</table>

Total Credits 18

In addition to a general Philosophy minor, minors corresponding to the four tracks described above are available. Their course requirements (in addition to PHIL-104, PHIL-111, and either PHIL-102 or PHIL-210) are described below.

Track 1 Minor: Philosophy, Law and Politics

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PHIL-325</td>
<td>PHILOSOPHY OF LAW</td>
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<tr>
<td>PHIL-326</td>
<td>LEGAL REASONING</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>PHIL-324</td>
<td>MOCK TRIAL</td>
<td>3</td>
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<tr>
<td>PHIL-327</td>
<td>LEGAL ETHICS</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-332</td>
<td>SOC. &amp; ECON. JUSTICE</td>
<td>3</td>
</tr>
<tr>
<td>POLS-306</td>
<td>COURTS IN AMER. POLITICS</td>
<td>3</td>
</tr>
<tr>
<td>POLS-351</td>
<td>POLITICS OF SOCIAL POLICY</td>
<td>3</td>
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<tr>
<td>POLS-420</td>
<td>CONS. LAW I. CIVIL RIGHTS</td>
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<tr>
<td>POLS-421</td>
<td>CONSTIT. LAW II:POL STRUCT.</td>
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Total Credits 9
### Track 2 Minor: Philosophy and Social Justice

<table>
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<tr>
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<tr>
<td>PHIL-332</td>
<td>SOC. &amp; ECON. JUSTICE</td>
<td>3</td>
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<tr>
<td>PHIL-301A</td>
<td>PHILOSOPHY OF NONVIOLENCE</td>
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<tr>
<td>or PHIL-358</td>
<td>THE PHILOSOPHY OF GANDHI</td>
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Select one of the following: 3

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<th>Credits</th>
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<tr>
<td>PHIL-341</td>
<td>ENVIRONMENTAL ETHICS</td>
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<tr>
<td>POLS-240</td>
<td>CONTROVERSIES-PUBL POLICY</td>
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<tr>
<td>POLS-251</td>
<td>AMERICAN URBAN CONFLICT</td>
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<tr>
<td>POLS-315</td>
<td>ENVIRONMENTAL POLITICS</td>
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<td>POLS-351</td>
<td>POLITICS OF SOCIAL POLICY</td>
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<td>POLS-420</td>
<td>CONS. LAW I. CIVIL RIGHTS</td>
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<tr>
<td>SOC-205</td>
<td>SOCIOLOGY OF INEQUALITY</td>
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<td>SOC-413</td>
<td>Minorities in the United States</td>
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Total Credits 9

### Track 3 Minor: Philosophy, Art & Literature

Select two of the following: 6

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<tr>
<td>PHIL-318</td>
<td>AESTHETICS</td>
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<tr>
<td>PHIL-319</td>
<td>HUMAN IMAGES</td>
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<tr>
<td>PHIL-320</td>
<td>EXISTENTIALISM</td>
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<tr>
<td>PHIL-409</td>
<td>NIETZSCHE</td>
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Select one of the following: 3

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<tr>
<td>VA-341</td>
<td>MODERN ART &amp; THEORY</td>
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<tr>
<td>ENG-390</td>
<td>LITERARY THEORY</td>
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<tr>
<td>ARTH-322</td>
<td>CONTEMPORARY ISSUES IN ART</td>
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</table>

Total Credits 9

### Track 4 Minor: Philosophy, Ethics and Medicine

Select one of the following: 3

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<thead>
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<tbody>
<tr>
<td>PHIL-335</td>
<td>PHIL. OF SCIENCE &amp; MEDICINE</td>
<td></td>
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<tr>
<td>PHIL-338</td>
<td>HEALTH CARE ETHICS</td>
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Select one of the following: 3

<table>
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<tr>
<th>Code</th>
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<tr>
<td>PHIL-337</td>
<td>DEATH AND DYING</td>
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<tr>
<td>PHIL-345</td>
<td>VALUES AT THE END OF LIFE</td>
<td></td>
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<tr>
<td>PSYC-330</td>
<td>HEALTH PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>SOC-408</td>
<td>HEALTH AND ILLNESS</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9
DEPARTMENT OF PHYSICS

Department Chair: James Pientka, Ph.D.

Founded in 1939 by the Rev. Francis Sullivan, O.F.M.

Faculty

T. Cooke, M.S.
R. M. Oszwaldowski, Ph.D.
J. M. Pientka, Ph.D.

The program in physics is designed to provide opportunities for the undergraduate student to develop the skills essential for graduate school, industry, government service and the teaching of physics. The physics curriculum offers two degree tracks designed to prepare a student for employment or further study in physics or in the various engineering fields, such as, but not limited to, electrical and mechanical engineering. Students with an interest in biophysics may take a minor in biology, or take a set of recommended biology electives. Physics majors have gone on to careers in physics, civil, electrical, & mechanical engineering, biomechanical engineering and medicine. The department also provides a fundamental physics foundation for other science disciplines. Physical science courses are available to those not majoring in the sciences.

A chapter of Sigma Pi Sigma, National Physics Honor Society, has been established to give recognition to outstanding students.

The Physics Department operates the SBU Observatory, which is equipped with an 11 inch Schmidt-Cassegrainian telescope. Interested students may participate in the Orion Astronomy Club.

• Engineering Physics, BS (p. 253)
• Physics, BS (p. 254)
• Physics, Minor (p. 255)

Engineering Physics (ENGR)

ENGR-103 ENGINEERING GRAPHICS I (3 Credits)
Introduction to engineering drawing and Computer Aided Drafting (CAD).

ENGR-203 STATICS (3 Credits)
Engineering mechanics, applied mathematics, concurrent forces, statics on rigid bodies, equilibrium, friction, three-dimensional theory, energy principles.
Prerequisite(s): Take PHYS-103

ENGR-204 DYNAMICS (3 Credits)
Kinematics and dynamics of a particle. Rigid bodies, momentum principles, work and energy, vibrations, kinematics and dynamics in three-dimensional space.
Prerequisite(s): Take ENGR-203

ENGR-205 STRENGTH OF MATERIALS (3 Credits)
Elementary analysis of strength and deformation of deformable bodies subject to various force systems. Strain and stresses in solids of one, two, and three dimensions.
Prerequisite(s): Take ENGR-203

ENGR-220 INTRODUCTION TO MATLAB (3 Credits)
This course introduces students to MatLab, one of the most widely used software packages for technical and scientific calculation, and to the numerical solution of problems in physics and engineering.

ENGR-252 ENGINEERING MECHANICS (3 Credits)
The study of statics and dynamics with engineering applications. Deformation, strain and stresses in solids of one, two, and three dimensions. Introduction to the mechanics of continuous media, the kinematics and dynamics of fluids; viscous flow, turbulence. Bernoulli’s theorem and the Navier-Stokes equation.
Prerequisite(s): Take PHYS-103 PHYS-104

ENGR-262 ELECTRONICS (3 Credits)
This course is designed for the advanced undergraduate student or the incoming graduate student who desires a basic training in electronics. The course seeks to acquaint the student with the physical principles which govern the use of electronic devices and to allow the student to use these components in the design of circuits.

Physics (PHYS)

PHYS-COMP WRITTEN COMPREHENSIVES (0 Credits)

PHYS-103 GENERAL PHYSICS I (3 Credits)
An introductory course in physics for students of science and engineering. Topics include: vectors, statics, dynamics, rotation, conservation laws, vibrations and thermodynamics. Students without calculus admitted with permission of instructor.
Corequisite(s): TAKE MATH-151

PHYS-104 GENERAL PHYSICS II (3 Credits)
Topics include: electricity and magnetism, circuit analysis, electromagnetic waves, optics and modern physics. Students without calculus admitted with permission of instructor.
Prerequisite(s): Take PHYS-103 MATH-151

PHYS-110 PHYSICS FOR MEDICAL TECHNICIAN (4 Credits)
A one-semester general physics course which emphasizes the principles of physics that are most important to a medical technician. The course topics include optics, forces, motion, energy, heat, fluids, electricity and radioactivity.

PHYS-201 THEORETICAL MECHANICS (3 Credits)
Vector algebra and calculus. Kinematics of a point. Dynamics of a system of points. Kinematics of rigid bodies. Impulse, momentum, work and energy.
Prerequisite(s): Take PHYS-103 PHYS-104

PHYS-203 MODERN PHYSICS (3 Credits)
A study of transition from classical to modern physics. Topics treated are relativity, electromagnetic radiation, discoveries of electron and nucleus, Bohr Theory of atomic structure and introductory quantum mechanics. (formerly Atomic Physics).
Prerequisite(s): Take PHYS-103 PHYS-104

PHYS-252 ENGINEERING MECHANICS (3 Credits)
The study of statics and dynamics with engineering applications. Deformation, strain and stresses in solids of one, two, and three dimensions. Introduction to the mechanics of continuous media, the kinematics and dynamics of fluids; viscous flow, turbulence. Bernoulli’s theorem and the Navier-Stokes equation.
Prerequisite(s): Take PHYS-103 PHYS-104
PHYS-301 ELECTRICITY & MAGNETISM I (3 Credits)
Topics covered include vector analysis, selected topics in vector calculus, the electrostatic field of force, Gauss’ law and the application of these principles to the solution of problems involving various geometries is considered. The electrostatic field in dielectric media, boundary value problems in dielectric media and electrostatic energy and the application of energy concepts are studied. Electric current and circuit analysis are included. Other topics include the magnetic field of steady currents, electromagnetic induction, magnetic properties of matter, magnetic energy, slowly varying currents, Maxwell's Equations and the applications of Maxwell's Equations.
Prerequisite(s): Take MATH-251 MATH-252 PHYS-103 PHYS-104

PHYS-302 ELECTRICITY & MAGNETISM II (3 Credits)
Prerequisite(s): Take PHYS-301

PHYS-304 THERMODYNAMICS (3 Credits)
Temperature, thermodynamic systems, work, the First Law, heat, ideal gases, the Second Law, reversibility and irreversibility, the Carnot cycle, entropy, Boltzmann statistics, equipartition of energy. Introductory statistical mechanics.
Prerequisite(s): PHYS-103 AND PHYS-104

PHYS-309 EXPERIMENTAL PHYSICS I (3 Credits)
This course introduces the student to the experimental techniques associated with the intermediate level physics courses. Choice of experiments will depend upon the student’s background and interest.
Prerequisite(s): PHYS-103, PHYS-104, PHYL-103, PHYL-104

PHYS-312 INTERN. IN APPLIED PHYSICS (3 Credits)
This course is a practicum designed to give qualified juniors an opportunity to spend a summer in a structured industrial or research setting so that they can immerse themselves in a project involving applied physics. Open to second-semester junior physics majors and with special permission students with a physics minor.

PHYS-403 ELECTRONICS (3 Credits)
This course is designed for the student who desires a basic training in electronics. The course seeks to acquaint the student with the physical principles which govern the use of electronic devices and to allow the student to use these components in the design of circuits.

PHYS-404 SOLID STATE (3 Credits)
Crystal Structures and solids. Lattice vibrations. Thermal properties of solids,
Prerequisite(s): Take PHYS-203

PHYS-406 INTRODUCTORY QUANTUM MECHANICS (3 Credits)
De Broglie waves and wave packets, the Schroedinger equation, applications to one-dimensional problems, the hydrogen atom, perturbation theory, angular momentum and electron spin.
Prerequisite(s): Take PHYS-203

PHYS-407 TOPICS IN BIOPHYSICS (3 Credits)
A study of the principles and experimental techniques of physics as they apply to biological systems. Special emphasis will be given to the interactions as they occur on the molecular level.

PHYS-408 OPTICS (3 Credits)
Study of wave motion, Huygen's principle, dispersion. Some facts concerning the spectrum, interference, diffraction, double refraction, plane polarized light, the electromagnetic theory of light, velocity of light, the origin of spectra.

PHYS-409 EXPERIMENTAL PHYSICS II (3 Credits)
This course is a continuation of Physics 309. Experiments of a more sophisticated nature are available. The experiments are related to lecture courses at the senior level.

PHYS-410 SPECIAL PROBLEMS IN PHYSICS (3 Credits)
Designed to allow qualified seniors to undertake independent study or experimentation in some subject in physics under the direct supervision of one of the department staff. Modern computer methods will be employed wherever possible so that the student may become acquainted with the programming, etc.

PHYS-451 APPLIED PROB.COMPUTATIONAL PHY (3 Credits)
Problem solving in a wide range of engineering and physics applications, including electricity and magnetism, solid and fluid mechanics, optics, thermal physics, atomic and nuclear physics. Emphasis is placed on numerical methods, approximation techniques and advanced computer skills for solutions of problems arising in realistic engineering situations.
Prerequisite(s): Take CS-127 or ENGR-220

PHYS-452 Applied Methods in Computational Physics (3 Credits)
Practice in the numerical solution of differential equations and systems of such equations. Finite difference and finite element methods are used on applications drawn from several areas of physics and engineering.
Prerequisite(s): Take PHYS-451

PHYS-490 SENIOR COMPREHENSIVES (0 Credits)
This is an oral comprehensive required of all physics seniors.

Physics Lab (PHYL)

PHYL-103 GENERAL PHYSICS I LAB (1 Credit)
Basic experiments in classical physics designed to complement the topics covered in Physics 103.
Corequisite(s): Take PHYS-103

PHYL-104 GENERAL PHYSICS LAB II (1 Credit)
Basic experiments in classical and modern physics designed to complement topics covered in Physics 104.
Corequisite(s): Take PHYS-103

PHYL-110 MED. TECH LAB (1 Credit)
Two hours per week laboratory with experiments in areas covered in Physics 110.

Engineering Physics, BS

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<tr>
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<td>and GENERAL PHYSICS I LAB</td>
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<tr>
<td>PHYS-104</td>
<td>GENERAL PHYSICS II</td>
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<td>&amp; PHYL-104</td>
<td>and GENERAL PHYSICS II LAB</td>
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</tr>
<tr>
<td>PHYS-201</td>
<td>THEORETICAL MECHANICS</td>
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</tr>
<tr>
<td>PHYS-203</td>
<td>MODERN PHYSICS</td>
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<td>PHYS-301</td>
<td>ELECTRICITY &amp; MAGNETISM I</td>
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<td>PHYS-304</td>
<td>THERMODYNAMICS</td>
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<td>APPLIED PROB.COMPUTATIONAL PHY</td>
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<td>PHYS-490</td>
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Mathematics

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<td>MATH-151</td>
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<td>MATH-152</td>
<td>CALCULUS II</td>
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<td>MATH-251</td>
<td>CALCULUS III</td>
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<tr>
<td>MATH-252</td>
<td>ORDINARY DIFFERENTIAL EQUATIONS</td>
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</table>
The comprehensive requirement for physics is satisfied by

1. service as a teaching aide in one introductory physics lab section and
2. passing an oral exam given at the end of a student’s last semester of study.

Mathematics Elective

Engineering Physics

ENGR-220  INTRODUCTION TO MATLAB
ENGR-252  ENGINEERING MECHANICS
ENGR-262  ELECTRONICS

Chemistry

CHEM-101 & CHML-101
CHEM-102 & CHML-102

Foreign Language 202

General Education Requirements (p. 161)

General Electives

Total Credits 120

1. The Physics Elective is to be chosen from: PHYS-312, PHYS-404, PHYS-406, PHYS-408, PHYS-409, PHYS-410, PHYS-451, or PHYS-452.
2. The Writing Intensive, Diversity Coded, and Quantitative Literacy course requirements may be met by any major, general education, or elective courses designated as such.
3. The Mathematics Elective is to be chosen from the following:
   MATH-207, MATH-208 MATH-241, MATH-322, MATH-323, MATH-341, MATH-342, MATH-345, MATH-351, MATH-352, MATH-413, MATH-431, or MATH-453.
4. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Department Comprehensive Requirement (PHYS-490)

The comprehensive requirement for physics is satisfied by

1. service as a teaching aide in one introductory physics lab section and
2. passing an oral exam given at the end of a student’s last semester of study.

First Year

Fall

Credits Spring Credits
SBU-101  2 MATH-152  4
ENG-101  3 ENG-102  3
MATH-151  4 PHYL-104  1
PHYS-103  3 PHYS-104  3
PHYL-103  1 ENGR-220  3
PHYS-102  1  1

Second Year

Fall

Credits Spring Credits
MATH-251  4 PHYS-203  3
CHEM-101 & CHML-101  4 Foreign Language 202  3
Foreign Language 201 & General Elective  3 CHEM-102 & CHML-102  4
PHYS-201  3 FS/THEO-101  3
General Education Requirement  3 General Education Requirement  3

Third Year

Fall

Credits Spring Credits
PHYS-301  3 PHYS-302  3
PHYS-304  3 PHYS-309  3

Fourth Year

Fall

Credits Spring Credits
PHYS-451  3 Physics Elective  3
General Electives  6 General Electives  8
General Education Requirement  6 General Education Requirement  3
PHYS-490  0  15  14

Total Credits 120

1. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.
2. The Mathematics Elective is to be chosen from the following:
   MATH-207, MATH-208, MATH-241, MATH-322, MATH-323, MATH-341, MATH-342, MATH-345, MATH-351, MATH-352, MATH-413, MATH-431, or MATH-453.

Physics, BS

<table>
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<th>Code</th>
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<tr>
<td>PHYS-103</td>
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<td>&amp; PHYL-103</td>
<td>and GENERAL PHYSICS I LAB</td>
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</tr>
<tr>
<td>PHYS-104</td>
<td>GENERAL PHYSICS II</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYL-104</td>
<td>and GENERAL PHYSICS LAB II</td>
<td></td>
</tr>
<tr>
<td>PHYS-201</td>
<td>THEORETICAL MECHANICS</td>
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<td>EXPERIMENTAL PHYSICS I</td>
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<tr>
<td>PHYS-406</td>
<td>INTRODUCTORY QUANTUM MECHANICS</td>
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<td>SENIOR COMPREHENSIVES</td>
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<td>CHEM-101</td>
<td>GENERAL CHEMISTRY I</td>
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<td>and GEN CHEM I LAB</td>
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<td>CHEM-102</td>
<td>GENERAL CHEMISTRY II</td>
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<td>&amp; CHML-102</td>
<td>and GEN CHEM II LAB</td>
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<tr>
<td>MATH-151</td>
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<tr>
<td>MATH-252</td>
<td>ORDINARY DIFFERENTIAL EQUATIONS</td>
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</table>

Mathematics Elective

Engineering Physics

ENGR-220  INTRODUCTION TO MATLAB

Foreign Language 202

General Education Requirements (p. 161)

Foreign Language 202  3

General Education Requirements  37
The Writing Intensive, Diversity Coded, and Quantitative Literacy course requirements may be met by any major, general education, or elective courses designated as such.

The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

The Mathematics Elective is to be chosen from the following: MATH-207, MATH-208, MATH-241, MATH-322, MATH-323, MATH-341, MATH-342, MATH-345, MATH-351, MATH-352, MATH-413, MATH-431, or MATH-453.

The Physics Elective is to be chosen from: PHYS-312, PHYS-404, PHYS-406, PHYS-408, PHYS-409, PHYS-410, PHYS-451, or PHYS-452.

### Physics, Minor

For non-majors, the following courses constitute a minor:

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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>PHYS-103</td>
<td>GENERAL PHYSICS I &amp; PHYL-103 and GENERAL PHYSICS I LAB</td>
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<tr>
<td>PHYS-104</td>
<td>GENERAL PHYSICS II &amp; PHYL-104 and GENERAL PHYSICS LAB II</td>
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<tr>
<td>PHYS-201</td>
<td>THEORETICAL MECHANICS</td>
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<td>PHYS-301</td>
<td>ELECTRICITY &amp; MAGNETISM</td>
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<tr>
<td>PHYS-304</td>
<td>THERMODYNAMICS</td>
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<tr>
<td>PHYS-203</td>
<td>MODERN PHYSICS</td>
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<tr>
<td>PHYS-252</td>
<td>ENGINEERING MECHANICS</td>
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<tr>
<td>PHYS-451</td>
<td>APPLIED PROB.COMPUTATIONAL PHY</td>
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Total Credits 20

Note: A 2.00 GPA is required. These courses may not be taken pass/fail. Also required as pre-requisites (15 credits), taking the total minor to 35 credits: MATH-151, MATH-152, MATH-251, MATH-252.
DEPARTMENT OF POLITICAL SCIENCE

Department Chair: Mary Rose Kubal, Ph.D.

Faculty
M. Kubal, Ph.D.
J. B. Lambert, Ph.D.
E. Tillman, Ph.D.
I. Zabad, Ph.D.

The department is strongly committed to the notion that an active, lifelong, and intelligent involvement in the political world is critical to democracy and social progress. Therefore, the educational objective is to maximize the students’ capacity to analyze and interpret the significance and dynamics of political events and governmental processes. The political science major is immersed in subjects concerning political and social thought, social forces and political change, processes and the state, and governance and public policy.

The student is encouraged to relate his/her classroom learning to the political world by participating in one of several internship programs, Model United Nations, or a social action opportunity. Experiential learning not only expands classroom knowledge, but enables the student to actively participate in the democratic process.

The study of political science is an excellent preparation for various careers including government employment at all levels, the law, the diplomatic corps, education, multinational corporations, politics and graduate study.

Pre-Law Advisement
The department provides special advisement programs and workshops for students who plan to attend law school. See Dr. Tillman for further details.

Advisory System
The department is strongly committed to its advisory system. Advising begins during the summer orientation program prior to the first semester and continues throughout the academic career. The student is assigned to a political science faculty adviser and is encouraged to seek consultation on a regular basis. Valuable knowledge can be gained concerning course selection, graduate education, and career choices.

Internship Program
Believing that outside classroom experiences contribute to the expansion of knowledge in political science and to intelligent career choices, the department encourages student participation in the internship program. See Dr. Lambert for further details. The following choices are available:

1. The student resides at St. Bonaventure and works eight hours per week at the local state senator’s or state Assembly member’s office as a staff member. Three credit hours.
2. The student resides in Albany under the New York State Assembly Internship Program for the spring semester. While in Albany, the student becomes a staff member of the Assembly and carries on the full responsibilities of that position.
3. The Department is an affiliate of the Washington Center for Internships and Academic Seminars as well as SUNY Brockport’s Washington Internship program. This allows our majors to spend a semester in Washington participating in a wide variety of possible experiences including governmental affairs, broadcast and print journalism, executive branch, international relations and foreign trade. 15 credit hours.
4. The student may submit a proposal to the department internship coordinator, Dr. Lambert, for an individualized internship experience. Proposals involve a variety of experiences and must include an academic component. Credit hours vary.

Model United Nations
Each year the Model United Nations class competes in intercollegiate conferences and hosts a regional conference for high school students. Students register for the class (depending on the level of experience) in the fall, but the course lasts the entire academic year. See Dr. Zabad for more information:

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<td>POLS-104</td>
<td>MODEL UNITED NATIONS</td>
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<td>POLS-208</td>
<td>INTERMEDIATE MODEL UNITED NATIONS</td>
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<td>POLS-308</td>
<td>MODEL UNITED NATIONS SECRETARIAT</td>
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The National Political Science Honor Society
Pi Sigma Alpha, the national political science honor society, is open to all junior and senior political science majors and minors who have achieved a 3.25 grade point average in political science courses and a 3.0 overall grade point average.

- Political Science, BA (p. 261)
- Political Science, Minor (p. 262)

Political Science (POLS)
POLS-ELEC POLS (3 Credits)
POLS-102 AMERICAN POLITICS (3 Credits)
This course seeks to explain American politics as the interaction among political thought, economic, political, and social structures, and the struggle for human rights. Grounded in an understanding of the clash between the economic elites and democratic forces during the Constitutional period, the course then traces this dynamic into the basic governmental structure, political parties and elections, media influence, and political struggle for human rights. Finally, the course explores the possibilities for change under the current political/economic/social structures.
POLS-103 INTERNATIONAL RELATIONS (3 Credits)
This course is designed as an introduction to the study of international relations. Several important questions are addressed. What is the nature of the international system? What sources of powers are available? What are the strengths and weaknesses of the current state system? How are non-state actors influencing international relations? What are the links between individuals and world politics? Objectives of this course include increasing understanding of current international events, developing an appreciation for the challenges of political decision-making and diplomacy and the choice of tactics, augmenting familiarity with key political concepts and improving recognition of important international actors.
POL-104 MODEL UNITED NATIONS (3 Credits)
This course is the entry to participation in MUN. The class is designed to familiarize the student with the following issues and materials: the structure and functions of the United Nations and its internal agencies; the salient issues that come before the UN; the rules of order and techniques of formal debates used at the UN; experience and participation in UN simulations; research methods and techniques for studying foreign nations; preparing position papers; and tasks related to planning and organizing a Model UN simulation. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester. They prepare for participation at the Mid-Atlantic Model United Nations Conference day-long scrimmages at different times during the year, and participate in other conferences as scheduled. They also actively plan and implement the St. Bonaventure Model United Nations Conference for high school students held on the St. Bonaventure campus in the spring of each year.

POL-104A MODEL UNITED NATIONS (1 Credit)

POL-104B MODEL UNITED NATIONS (1 Credit)

POL-104C MODEL UNITED NATIONS (1 Credit)

POL-104D MODEL UNITED NATIONS (1 Credit)

POL-203 COMP. POLITICAL SYSTEMS (3 Credits)
A comparative analysis of the governments and politics of modern nation-states. First, a method of comparative analysis will be established. Then the student will analyze a selection of systems of government and politics from each area of the world. Areas will include advanced industrial states, developing regions and regimes in transition. Objectives of this course include familiarizing students with the differences of political systems, structures, ideologies and conflicts.

POL-204 POLITICAL THOUGHT (3 Credits)
This course addresses several fundamental questions of social and political life. Why do we follow rules? Is there a universal basis for judging behavior? Are there laws of human nature? If so, what kind of society do they encourage? What are the causes and justifications of inequality? What is the best way to organize society? We will read several attempts to address these questions during the class. The objectives of the course include gaining familiarity with some of the key concepts and thinkers in the history of political theory, developing an appreciation of the influences of political theory in shaping politics, improving the capacity to compare and analyze arguments, and developing skills in examining and presenting lines of reasoning.

POL-205 LAW AND SOCIETY (3 Credits)
Law is a common and yet distinct element of daily life in modern societies. The creation, interpretation, and enforcement of laws occur in the context of historical changes, societal norms, and the subjective concerns and whims of those charged with its creation. This course will explore, from an American and comparative perspective, the nature of law as a set of social systems, central actors in the systems, legal reasoning, and the relationship of the legal form and reasoning to social change.

POL-207 POLITICS AND RELIGION (3 Credits)
For so long, the theory and practice of secularism have dominated politics, but the last few decades have witnessed the ‘resurgence’ of religion in the public sphere and a sharp increase in religious influence in international and domestic politics. Indeed, it has become common knowledge that religious worldviews inform, influence and shape political behavior and attitudes of individuals, political parties, social movements, civil society, and even the foreign policies of nation states. What explains the ‘resurgence’ of religion and the emergence of religion political movements and organizations? Why do some states insist on a strict separation of religion and politics while others seek their integration and fusion? Is secularism really declining? What is the relationship between the recent rise of the radical right and religion? Why do some religious actors resort to political violence while others employ peaceful means? The relationship between religion and politics is multifaceted and dynamic. This course aims at exploring this complex relationship in a wide variety of settings and countries from the Middle East, Europe, Africa and Latin America.

POL-208 INTERMEDIATE MODEL UNITED NATIONS (3 Credits)
This course will have the responsibilities of POLS-104, plus additional presentations to the class and the requirement of running a committee for SBUMUN. Students will be expected to participate in at least three MAMUNC scrimmages or other conferences. Only three MUN credits at the POLS 210 level or higher will be acceptable as a political science elective for the major. The other MUN credits will be considered as general electives. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.

POL-209 INTERMEDIATE MODEL UNITED NATIONS 2 (3 Credits)
This course will have the responsibilities of POLS-104, plus additional presentations to the class and the requirement of running a committee for SBUMUN. Students will be expected to participate in at least three MAMUNC scrimmages or other conferences. Only three MUN credits at the POLS 210 level or higher will be acceptable as a political science elective for the major. The other MUN credits will be considered as general electives. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.

Prerequisite(s): TAKE POLS-104

POL-221 CONGRESSIONAL POLITICS (3 Credits)
Congress is the first branch of government and the keystone of the Washington establishment. This course explores some of the most basic questions about the American political system. Does Congress adequately represent the American people? Why does Congress have difficulty making collective decisions in the national interest? How has the Republican takeover of Congress reconfigured the institution and altered its procedures? How can Congress and the president work together to make public policy? Topics covered include representation, campaign finance, elections, the legislative process, the committee system, members in their districts, Congressional investigations, party leadership, Congress and relations with the president.

POL-240 CONTROVERSIES-PUBL POLICY (3 Credits)
This course introduces students to the fundamental concepts and debates in areas of policy analysis, policy formation, and specific policy issues. We will address questions like: Can we analyze public policies rationally and systematically? What criteria ought we use to analyze public policies? Is the policy making process rational and systematic, or is it political and arbitrary? Finally, what major policy issues confront Americans today, and what choices do we face?
POLS-251 AMERICAN URBAN CONFLICT (3 Credits)
The cities of the United States present critical political and social issues, including de-industrialization, inner city poverty, crime and suburbanization. These cities also represent centers of vital political and social developments including the civil rights movement, the new urbanism, urban enterprise zones, the new economy and metropolitan culture. This course explores the variety of problems and opportunities facing American cities today, while providing a close look at the politics and culture of major cities like New York, Los Angeles and Chicago.

POLS-261 PARTICIP’N IN AMER POLITICS (3 Credits)
Political participation is essential for American democracy. This course explores the variety of ways Americans participate politically and the promises and limitations of this activity. Traditional forms such as elections, campaigning, the courts and interest groups are examined as well as more radical forms such as the civil rights movement, feminism and protests.

POLS-300 QUALITATIVE METHODS FOR A GLOBALIZING WORLD (3 Credits)
In this course International Studies and Political Science students will learn to develop research questions and choose the appropriate methods and evidence to answer the question and develop an argument. The basics of case study research will be presented alongside methods such as process tracing and context analysis. Students will learn how to conduct interviews and find other primary source material from such sources as the United Nations website, the World Values Survey, and social media. Strategies for effectively organizing and writing a major research paper will be presented.

POLS-301 COMPARATIVE REVOLUTIONS (3 Credits)
A study of the role political ideology, leadership and environmental factors play in political revolutions. The student is first introduced to a variety of analytical framework utilized by political scientists in order to understand revolutionary processes. Then the course examines several revolutions, both successful. These may include the Chinese, Cuban, Irish, German, French, Russian and American revolutions.

POLS-302 AMERICAN POLITICAL THOUGHT (3 Credits)
This course traces liberalism, the dominant American ideology, from Puritanism to the present time. Special attention is given to the Constitutional period and the contrasting thought of Madison and Jefferson, the Industrial Revolution, and the Depression. Finally, the course considers the effect of liberal ideology on the current condition of American politics.

POLS-305 PRESIDENTIAL POWER (3 Credits)
Designed to provide a thorough understanding of the processes of the executive branch of the American government, its role in relationship to the other sectors of government and the public. Included for consideration are the Office of the President, his staff and cabinet, the policy making process and the bureaucracy.

POLS-306 COURTS IN AMER. POLITICS (3 Credits)
This course details the role of law within the larger political/economic system showing how it functions as a system of social control. Particular attention is given to the role of the government in maintaining the legal system through judicial appointments and prosecutors; the role of juries; and the public before the courts.

POLS-307 QUANTITATIVE RESEARCH METHODS IN POLITICAL SCIENCE (3 Credits)
This course introduces students to the methods and terminology used by political scientists. We will examine basic concepts used in research (such as theories, hypotheses, independent and dependent variables, reliability and validity, sampling, and generalizability). We will also examine basic statistical techniques that are used to examine data, with an emphasis on interpreting the results (ranging from descriptive statistics to crosstabs, correlation, and regression). This course provides the knowledge necessary to conduct objective investigations of political phenomena and to better understand and evaluate the research of others. Upon completion of this course, students should be able to understand and interpret most research published in political science journals, as well as public opinion polls, surveys, and research findings reported in the news. As a result, students who complete this course will become more sophisticated consumers of diverse research and be prepared for future coursework in political science, as well as for life as an educated and informed citizen.

POLS-308 MODEL UNITED NATIONS SECRETARIAT (3 Credits)
This course builds on the experience and responsibilities of POLS 210/211 but also requires key leadership positions and major preparations for the conference and conduct of the class. This entails extra planning meetings, and the execution of many of the logistical requirement of the SBUMUN conference. Members at this level will also help revise and make suggestions for the topic guides and other material for SBUMUN, help prepare the class for other conferences, and manage the SBUMUN website. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.

POLS-309 MODEL UNITED NATIONS SECRETARIAT 2 (3 Credits)
This course builds on the experience and responsibilities of POLS 210/211 but also requires key leadership positions and major preparations for the conference and conduct of the class. This entails extra planning meetings, and the execution of many of the logistical requirement of the SBUMUN conference. Members at this level will also help revise and make suggestions for the topic guides and other material for SBUMUN, help prepare the class for other conferences, and manage the SBUMUN website. Students enroll in the course for the entire academic year, meeting the deadlines for the Fall semester. They receive an IP grade until the conclusion of the Spring semester.

POLS-315 ENVIRONMENTAL POLITICS (3 Credits)
This course addresses the relationships among the environmental movement, their opponents and the political system. Students study political movements for and against environmental protection at the community, national and global level. It also investigates the principal policies and policy-making institutions, including major environmental legislation and regulations, state and federal environmental agencies, and international agreements.
POLS-320 AMERICAN FOREIGN POLICY (3 Credits)
The United States emerged from the past millennium as the world’s only ‘superpower’. During the semester we will explore questions such as: How did the U.S. gain this undisputed advantage in the international arena? Does U.S. hegemony threaten world stability or is U.S. guidance the key to peace and prosperity in this millennium? How are other countries and groups reacting to U.S. power? Were the September 11 attacks the manifestation of a ‘clash of civilizations’ or a reaction to U.S. imperialism? As we move chronologically through the major foreign policy events of the past fifty years we will consider traditional political science explanations for U.S. decisions, considering evidence for realist, liberal (or idealist), and critical viewpoints. By the end of the course students should have gained an appreciation of the difficulties involved in maintaining influence on a global scale and the, often conflicting, impact of U.S. foreign policy decisions on democracy at home and abroad.

POLS-328 POLITICS OF THE 60s (3 Credits)
The period commonly referred to as ‘the 60s’ was a unique time in U.S. politics. The United States experienced political assassinations, a confrontation with the Soviet Union, a conflict in Vietnam, a civil rights movement, the largest student protest movement our country has seen, inner city riots, and prison uprisings. This course examines these events to understand their evolution as well as their lasting effects on U.S. political institutions and political behavior.

POLS-330 INT’L POLITICAL ECONOMY (3 Credits)
With the end of the Cold War and the acceleration of ‘globalization,’ economic issues have come to dominate the international agenda. This course examines the relationship between politics and economics in the international setting. It begins by looking at issues of trade and the international division of labor-focusing on the trend toward regional trading blocks. Issues of international finance and monetary policies are then explored looking at the political implication of financial integrations. Finally, students will be introduced to some new ways of thinking about the international political economy focusing on gender and environmental issues.

POLS-340 IDENTITY, EMOTIONS & DECISIONS (3 Credits)
This course examines the reasons for political behavior from a psychological perspective. The study of political behavior can be examined at the elite or mass levels, or even the nexus between elites and masses. This course uses insights and research from both psychology and political science to analyze a number of issues in the creation of political action. Particular emphasis will be placed on public opinion, persuasion heuristics, identification, intergroup conflict, tolerance, decision-making processes and the influence of small groups and personality of leaders on decision outcomes.

POLS-345 POLITICAL CONFLICT (3 Credits)
The study of politics revolves around conflict and compromise. Several scholars examine strategies used in the competitive quest for power or other values. Others study psychological factors of identity that influence group conflicts. Theorists attempt to develop models of decision making and political behavior that help explain the general processes of conflict. The course presents a set of tools useful in the study of conflict processes and examines the importance of gender in conflict. Further, we examine a number of case studies to compare how conflicts develop in different settings. An important aspect of the course is a research project in which you will analyze a conflict of your choice.

POLS-350 WESTERN EUROPEAN POLITICS (3 Credits)
This course is designed to introduce students to politics in Western Europe. Many of the countries have experienced drastic changes recently. The European Union continues to grow, thereby changing domestic as well as international politics. Ethnicity and nationalism threaten stability in much of the region. The course examines the effects of institutions and culture on political outcomes. The class combines country-specific case studies and cross-national comparisons focused on diverse political topics. The course examines politics within several countries of Western Europe, as well as in the European Union. We will address such questions as: What are the political effects of movements that seek the decentralization of the state and increased local autonomy? What are the effects of the movement toward increased integration of the European Union? What are the effects of different electoral systems on politics?

POLS-351 POLITICS OF SOCIAL POLICY (3 Credits)
Social policy is one of the most contentious and misunderstood topics in American politics today. The welfare state as such has come under attack, as those who depend upon its programs. This course addresses many of the contemporary scholarly and policy debates concerning the nature of the welfare state, the development of the American welfare state, the nature of poverty today and the impact of social policy upon divisions in American society. Traditionally, social policy has focused upon poverty, but this course is also interested in its impact on issues of race, social class and gender.

POLS-355 LATIN AMERICAN POLITICS (3 Credits)
Students will be introduced to the challenges facing Latin American countries as they develop politically, economically and socially. The course considers alternative theoretical explanations for patterns of politics in the region, analyzes the role of different social and state actors and reviews contemporary political trends in a number of Latin American countries. Major contemporary issues that will be examined include the role of the military in politics, the possibilities for democracy in the region, the challenge of bringing human rights abusers to justice, and the causes and consequences of international issues such as the debt crisis and drug trafficking.

POLS-356 LATIN AMERICA & THE U. S. (3 Credits)
This course examines contemporary issues in United States-Latin American relations, placing them in larger context of U.S. dominance in the region. Topics to be explored include the causes and consequences of Central American and Mexican immigration, free trade, the Andean region and drug trafficking (with a focus on recent Plan Colombia), and security issues related to Cuban revolution and the Panama Canal.

POLS-375 WOMEN AND POLITICS (3 Credits)
Women in most societies have been traditionally considered apolitical. This course seeks to break this commonly held image of women in a number of ways. A primary goal of this course is to develop a broad and sophisticated understanding of politics that can reveal the multifaceted ways in which women are politically involved. A second goal of the course is to recognize the diversity political women. An understanding of the diversity of women in politics will be enhanced by consideration of women in a variety of political settings. The course seeks to develop an understanding of how different political and economic regime types-revolutionary, military, democratic, neoliberal, etc. have a distinct impact on women and men.
POLS-395 MEDIA AND POLITICS (3 Credits)
This course takes a broad view of the media and its impact on politics, as well as the attempts of politicians and bureaucrats to manipulate media messages. We begin the semester by exploring the origin of the division between 'news' and 'entertainment' media and the recent blurring of this distinction. We then look at the evolution of the PR industry to see how opinion makers (particularly politicians and business interests) have developed techniques to shape mass public opinion. With this background we consider the impact of modern media coverage on political campaigns and executive and legislative politics.

POLS-396 POLITICS OF THE MIDDLE EAST (3 Credits)
This course is a comprehensive survey of historical and contemporary events in the region and focuses on the period starting from the fall of the Ottoman Empire to the present. We will examine processes of state building, struggles for self-determination and the domestic, regional, and international factors shaping the foreign policies of key states in the Middle East, the politics of religion, particularly the rise of various violent and non-violent forms of Islamic fundamentalism, the Arab-Israeli conflict, and the fate of ethnic and religious minorities in the wake of the region’s upheavals. The ultimate purpose is to provide students with historical and substantive knowledge of the region and the analytical tools necessary to critically evaluate events and political trends.

POLS-397 POLICING IN THE AMERICAS (3 Credits)
This course engages in a critical examination of ‘police power’ in a wide range of contexts - from local instances of protests policing to international police assistance. While police are often seen as 'neutral' enforcers of the law without their own political interests, their roles in maintaining order, targeting certain populations for enforcement, collecting intelligence, and at times supporting particular politicians or political parties make them important political actors. The course provides a historical and theoretical perspective on the role of the police in liberal democracies, in particular the United States and Canada, as well as the efforts of these countries to 'export' various policing models to Latin America.

POLS-398 TERRORISM & POLITICAL VIOLENCE (3 Credits)
This course is a survey of the phenomenon of political violence and an analysis of its causes, forms, and consequences. The course will focus on the following three forms of political violence: terrorism, genocide and assassinations. The course will explore several questions: why do individuals/organizations/states resort to violence instead of pursuing their goals peacefully through routine politics? What accounts for individual and mass support for political violence? What are the psychological, social, and political effects of violence? Is violence more effective in realizing an actor’s objectives? The course will focus on current events and past events. This course employs an interdisciplinary approach and will cover both broad/general theories and specific cases from different regions and will include watching few movies and documentaries.

POLS-399 INTERNATIONAL SECURITY (3 Credits)
International security lies at the heart of international stability and prosperity. Understanding the fundamental security issues that the international community has to deal with nowadays is crucial for political order. In this course, we will examine the major social forces that shape political outcomes in various states, such as religion, nationalism, and ethnicity; we will also study actual threats such as terrorism, proliferation of weapons of mass destruction, civil wars and state failure. Finally, we will consider long-term trends such as the effects of information technology on security, changing role of states, international organizations, transnational movements and democratization. A major focus of the course will be on U.S. security policy given that we live in an age of American supremacy.

POLS-420 CONS. LAW I. CIVIL RIGHTS (3 Credits)
This course engages the student in the debate concerning the parameters of freedom and political order within the legal system. It does so by examining the dynamics of Supreme Court decisions as related to the First Amendment rights of speech, press, religion; criminal due process; equal protection for minorities and women; and the right of privacy.

POLS-421 CONSTIT. LAW II:POL STRUCT. (3 Credits)
The behavior of American politics is largely determined by the governing structures existing within the system. In turn, each of these structures is grounded in Constitutional law. This course, by closely analyzing the Constitution itself and various Supreme Court decisions, explores the legal foundations of American politics. Subjects include the separation of powers, the federal system, executive privilege, the private economy, etc.

POLS-435 POLITICS OF DEV. AREAS (3 Credits)
This course focuses on the problems encountered by developing nations as they attempt to modernize their political and economic institutions. We will address questions such as why do some countries seem to have an easier time developing than others? How can we measure concepts such as development and democracy? Are economic development and political democratization mutually reinforcing process or do they conflict? In addition to exploring different theoretical explanations for political outcomes the course addresses important issues which policy makers in developing countries deal with on a daily basis including: environmental degradation, the status of women, racism, child labor, war and threats to national security.

POLS-445 SOCIAL MOVEMENTS (3 Credits)
This course introduces students to basic social movement theory and its relation to political events. We will explore questions such as: What motivates groups of people to organize to demand political change? Why does protest occur in some situations and not in others? When are social movements likely to be successful in achieving their demands? What is the role of the state in encouraging and suppressing social organizations? We will apply these theories to movements such as the civil rights movement, women’s movements, indigenous movements, gay rights movements, peace movements, peace movements, religious movements and the environmental movements. The particular groups studied will vary by semester.

POLS-450 SPECIAL TOPICS (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.
POLS-451 SPECIAL TOPICS (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-451D SP TOP: POLICING & DEMOCRACY (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-451G SP TOP: POLITICAL PARTIES & INTEREST GROUPS (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-451J ELECTIONS & VOTING BEHAVIOR (3 Credits)
A specialized course pertaining to one of the four subfields of Political Science: American Politics, International Relations, Comparative Political Systems, Political Thought. The specific content of the course will be announced prior to the semester in which it is offered.

POLS-455 DEMOCRATIC FUTURES (3 Credits)
Many academicians as well as the public have raised serious questions concerning the future of American democracy. This course contemplates the future, but by first understanding the present. We will explore the fields of psychology, technology, biology, media, government and economics to discover the sources of current concerns. Then with this grounding we will examine possible futures in such areas as deep ecology and anti-politics.

POLS-460 NATIONALISM & ETHNIC CONFLICT (3 Credits)
One of the greatest threats of state security in the post Cold War era has been the rise of nationalism and the role of ethnicity in political mobilization. We discuss the roots of ethnic and nationalistic sentiment, specifically whether ethnicity is a flexible social construct. We then move forward to consider the following questions. When does ethnicity become politicized? How and why do ethnic groups mobilize to engage the state? What are possible state responses to nationalist sentiment and ethnic conflict? Throughout the case class studies of recent ethnic conflict, such as Yugoslavia and the Rwandan genocide, will be used to illuminate the material.

POLS-491 WASHINGTON INTERNSHIP (3-15 Credits)
The student lives and works in Washington for a semester. The student expresses several choices as to a preferred experience and then is placed in one of these choices. Past student experiences have included the White House, State Department, Department of Justice, Congressional Offices.

POLS-491S WASHINGTON CENTER INTERNSHIP (3-15 Credits)

POLS-492 ALBANY INTERNSHIP (15 Credits)
A student may participate in the New York State Assembly program in Albany offered each Spring semester. The student lives and works in Albany.

POLS-492A LEGISLATIVE INTERNSHIP (3 Credits)

POLS-493 LAW OFFICE INTERNSHIP (3 Credits)
Awarded to deserving junior and senior students. Each student will spend eight hours per week working in a local law office experiencing the law as actually practiced. The student will be under the direct supervision of a lawyer. With permission of the department chair, the internship may be completed during the summer in the hometown of the student.

POLS-493A LAW OFFICE INTERNSHIP (3 Credits)

POLS-497 INDEPENDENT STUDY (1-6 Credits)
Under the guidance of a professor, a student will engage in advanced reading or research in political science. May be taken more than once for a total of 6 credits.

POLS-497A IND ST: RELIGION AND POLITICS (1-6 Credits)
Under the guidance of a professor, a student will engage in advanced reading or research in political science. May be taken more than once for a total of 6 credits.

POLS-497B IND ST: REFUGEES & FORCED MIGRATION (1-6 Credits)
Under the guidance of a professor, a student will engage in advanced reading or research in political science. May be taken more than once for a total of 6 credits.

POLS-498 POLITICAL SCIENCE CAPSTONE (3 Credits)
The capstone course offers the senior political science major the opportunity to carry out in-depth research, guided by a professor, in a particular area of the field. The student presents to his/her peers in a seminar format the results of the research. Additionally, a major paper is completed.

Restrictions: RGM.115

Political Science, BA

Political science is grounded in four subfields: American Politics, International Relations, Comparative Political Systems, and Political Thought. Beginning with American Politics, the student is introduced to each of these subfields within his/her first two years of study. Advanced courses may be taken across a broad spectrum of offerings listed below. During the fall semester of the student's senior year, the capstone course is completed; the student works closely with a faculty member on an independent research project.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>POLS-102</td>
<td>AMERICAN POLITICS</td>
<td>3</td>
</tr>
<tr>
<td>POLS-103</td>
<td>INTERNATIONAL RELATIONS</td>
<td>3</td>
</tr>
<tr>
<td>POLS-203</td>
<td>COMP. POLITICAL SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>POLS-204</td>
<td>POLITICAL THOUGHT</td>
<td>3</td>
</tr>
<tr>
<td>POLS-300</td>
<td>QUALITATIVE METHODS FOR A GLOBALIZING WORLD</td>
<td>3</td>
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</tbody>
</table>

Majors are required to take MATH-107 to meet the General Education Quantitative Literacy Distribution.

1 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.
Political Science, Minor

For non-majors, the following constitute a minor:

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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>POLS-102</td>
<td>AMERICAN POLITICS</td>
<td>3</td>
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<tr>
<td>POLS-103</td>
<td>INTERNATIONAL RELATIONS</td>
<td>3</td>
</tr>
<tr>
<td>POLS-203</td>
<td>COMP. POLITICAL SYSTEMS</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three additional approved political science electives:

Total Credits 18

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1 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.
DEPARTMENT OF PSYCHOLOGY

Department Chair: Stephanie Vogel, Ph.D.

Faculty

A. Hager, Ph.D.
S. Han, Ph.D.
A. Kaminske, Ph.D.
G. Privitera, Ph.D.
R. Valeri, Ph.D.
S. Vogel, Ph.D.

The department is committed to presenting psychology as a behavioral science. The intent is not that every graduate becomes a behavioral scientist, but that every student in the program becomes capable of appreciating and implementing the role and value of a scientific approach to understanding behavior and mental processes, in career, community service, public citizenship, and personal contexts.

Through courses required by the program, the student learns foundational knowledge in the history, philosophy and principles of behavioral science exemplified in the design of research in both the laboratory and the field, in the systematic collection and analyses of data, and in the interpretation and evaluation of research findings. In the elective courses, the student utilizes this foundational knowledge in pursuit of the student’s particular interests in the theories, research and applications of one or several of the specialized areas within psychology. Through the combination of required and elective courses, the student acquires a unique understanding of behavior and mental processes which can enhance subsequent experience and productivity in a wide variety of careers.

For the student interested in psychology as a career, the program also provides a solid academic base for advanced work leading to a graduate degree in psychology. The career-oriented student is also urged to take advantage of the many opportunities that the faculty and department offer for expanding upon classroom knowledge through participation in one of several fieldwork opportunities, involvement in faculty research or independent studies, pursuit of an honors degree, or participation in the department's psychology club or honor society.

Honor Society

Psi Chi, the national honor society for psychology, is available for psychology majors who have completed at least nine credits of Psychology courses, achieved a 3.00 cumulative average or better, are in the top 35 percent of their class and have received faculty recommendations. Invitations are extended every semester for students who meet these requirements.

Electives for Non-Majors

Most psychology courses are available as electives to all students in the University. When there is any question about course materials or suitability for a particular student, the adviser is invited to confer with the department of psychology chair.

Psychology (PSYC)

PSYC-101 INTRO TO PSYCHOLOGY (3 Credits)
A beginning course in the social and natural science areas of psychology; coverage of these two areas is at the discretion of the instructor. Research methods, quantitative methods and history are also introduced.

PSYC-102 AN INTRO TO BIOPSYCHOLOGY (3 Credits)
This course is a comprehensive introduction to the foundations of behavior. This includes the genetic, hormonal, biochemical, developmental, social, and evolutionary bases of behavior and mental processes. Specific topics with the course, addressed at multiple levels of analysis, include sensation, perception, learning, memory, emotion, thinking, language, feeding, drinking, reproduction, aggression, and other social behaviors.

PSYC-201 PSYC RESEARCH: METHODS & STATISTICS I (4 Credits)
The course will focus on the development of skills to enable the student to understand and conduct psychological research. Topics may include: the scientific process, observational methods, types of investigation, surveys, traces, archival data, control, sampling, descriptive statistics, correlation and regression, basics of hypothesis testing.
Prerequisite(s): Take PSYC-101

PSYC-202 PSYC RESEARCH: METHODS & STATISTICS II (4 Credits)
The course will focus on the development of skills to enable the student to understand and conduct psychological research. Topics may include: experimental designs, multilevel and factorial designs, interactions, external validity, comparisons among means, t-test, analysis of variance, non-parametric statistics.
Prerequisite(s): Take PSYC-201

PSYC-212 SOCIAL PSYCHOLOGY (3 Credits)
The study of how individuals influence and are influenced by their social environments. Topics include social learning, attitude formations and change, interpersonal attraction, social exchange, conformity, leadership and social groups.
Prerequisite(s): Take PSYC-101 or SOC-101

PSYC-213 GROUP DYNAMICS (3 Credits)
This course covers the major theories of group behavior and group process through experimental exercises, discussions and readings. Opportunities for students to learn observational and analysis skills necessary to study group process are provided.
Prerequisite(s): PSYC-212

PSYC-215 MALADAPTIVE BEHAVIOR (3 Credits)
Introduces students to the diagnostic criteria and description of mental disorders as well as the etiology and treatment. Special attention is paid to the scientific basis of our knowledge of this area.
Prerequisite(s): Take PSYC-101

PSYC-222 PSYCH OF LEARN/MEMORY (3 Credits)
An overview of the general principles governing behavior change, informed by consideration of the ecological and biological constraints and affordances on learning and memory. Topics may include the principles underlying: habituation, reinforcement, punishment, learning-set formation, conditioned emotional responses, taste aversions, token economies, spatial learning, food storing, short- and long-term memory, forgetting, drug addiction, therapy for maladaptive behaviors.
Prerequisite(s): Take PSYC-101
PSYC-224 PSYCHOLOGY OF ADOLESCENCE (3 Credits)
Development of adolescent behavior with emphasis on the determinants of patterns of adolescent activity.
Prerequisite(s): Take PSYC-101

PSYC-225 ADULT DEVELOP & AGING (3 Credits)
As we age we undergo gains as well as losses during the adult years. The focus of this course is twofold; to emphasize what individuals can do to promote successful aging and to highlight what individuals can do when faced with the challenges of the declines and diseases that occur during the adult years. This course will examine adult development and aging in four domains: biological and physical, cognitive, personal, and social.
Prerequisite(s): Take PSYC-101

PSYC-232 PSYCHOLOGICAL WELL-BEING (3 Credits)
Through this course the science of positive psychology will be explored. The roots of the study of human well-being in ancient Greek philosophy and, more recently, humanistic and existential psychology will be covered. Emphasis will be given to recently developed theories on optimism, hope, resilience, strengths, and human flourishing. These topics will be viewed at the level of individuals, interpersonal relations, groups, organizations, communities and nations.
Prerequisite(s): Take PSYC-101

PSYC-270 INVESTIGATIVE PSYCHOLOGY (3 Credits)
Investigative Psychology is the scientific psychological study or criminal action and the processes involved in detecting, apprehending, and bringing to justice the offender. Topics covered in this course will include a history of investigative psychology, criminal theories, examination of crimes (murder, sexual assault, acquisitive crimes) eyewitness testimony, interviewing, line-ups, and false confessions.
Prerequisite(s): Take PSYC-101 or SOC-101

PSYC-302 EXP. IN HUMAN MEM. & COGN. (3 Credits)
A laboratory course exploring human memory, information processing and cognitive processes. The course will focus on experimental work, building from simple research to more complex designs, to develop a variety of research skills involved in such research.
Prerequisite(s): PSYC-202
Corequisite(s): & PSYC-222 OR PSYC-422

PSYC-304 PERSONALITY EXPER. CORR RES. (3 Credits)
Collection, analysis, and interpretation of data which assess relationships between personality and behavior. Special emphasis on person-situation interaction. Assessment techniques and research associated with psychodynamic, phenomenological, cognitive and trait theories. Data analysis using computerized multiple regression will be a part of the course.
Prerequisite(s): Take PSYC-202 PSYC-433

PSYC-309 SOCIAL INFLUENCE (3 Credits)
Social influence is practiced by each of us and used on each of us every day. Social influence attempts include subtle social pressure, requests, and direct commands and can take a variety of forms including personal appeals, advertising campaigns, and government propaganda. Social influence attempts may be conveyed through traditional advertising but can also be conveyed through art, architecture, and music. As part of this course, students will examine and evaluate real world social influence tactics as well as examine empirical research that explores the factors that make it more likely a social influence attempt will be successful. Topics may include attitude change and persuasion, conformity, compliance, and obedience.
Prerequisite(s): Take PSYC-101

PSYC-310 ORGANIZ. & INDUSTRIAL PSYCH. (3 Credits)
An introduction to the psychology of the individual within the organization. The level of analysis will extend from individual psychology to the social psychology or groups and larger social structures.
Prerequisite(s): Take PSYC-101

PSYC-312 CHILD DEVELOPMENT (3 Credits)
The major theories in developmental psychology will be discussed with a focus on infant and child development. Theories and topics discussed include cognitive development, language development, attachment and emotional development, moral development, the self, and the role of the family, peers, school, and the media on development.
Prerequisite(s): Take PSYC-101

PSYC-313 INTERPERSONAL RELATIONS (3 Credits)
An inquiry into theories and empirical studies of the dyad. The dynamics of the development and maintenance of close interpersonal relationships are emphasized. Principal topics include attraction, intimacy, verbal-nonverbal communication, conflict and conflict resolution. Marriage and alternative dyadic lifestyles are critically discussed.
Prerequisite(s): Take PSYC-101

PSYC-315 ANIMAL BEHAVIOR (3 Credits)
A comprehensive introduction to the study of behavior that is organized around Niko Tinbergen’s ‘four questions’ that are asked about behavior: What is the immediate causation, the development, the evolutionary function, and evolutionary history of the particular behavior in question. Topics include: behavior genetics, evolution, predation, predator, avoidance, play, communication, cooperation, altruism, kin-selection, monogamy, polyandry, polygyny, territoriality, individual differences(nonhuman animal ‘personalities’).
Prerequisite(s): Take PSYC-101

PSYC-316 HUMAN SEXUALITY (3 Credits)
This course will offer a broad view of human sexuality from multidisciplinary perspectives: the psychological, biological, sociological, and historical. Topics will include research methods in the area of sexuality, human sexual anatomy, response, motivations, variations, reproduction, and basic sexological vocabulary, gender differences, developmental issues, and current and emerging theories and controversies regarding gender identity, sexual orientation, and the treatment approaches for sexual dysfunction and other sexual problems.
Prerequisite(s): Take PSYC-101

PSYC-330 HEALTH PSYCHOLOGY (3 Credits)
Issues related to health are a national concern as obesity rates and the costs for health care rise. This course provides an overview for many topics in health psychology including addiction, illness, exercise, stress, diet, and sexual behavior. This course describes research methodologies from an evolutionary, social, cultural, political, and individual perspective. Current treatments and inventions for solving issues related to health are also introduced. In all, this course provides a diverse introduction to many topics, perspectives, and outcomes for research in health psychology.
Prerequisite(s): Take PSYC-101
PSYC-343 PHYSIOLOGICAL PSYCHOLOGY (3 Credits)
An introduction to the physiological bases of behavior, focusing on the structure of the nervous system and the hormones and other biochemcials important for brain functioning and the emergent phenomenon we call behavior. Learning the 3 dimensional structure of the mammalian brain is aided by dissecting a sheep's brain. Topics include: development, recovery from spinal cord injury, movement, sensation and perception, sleep, consciousness, emotion, ingestion, eating disorders, reproduction, social bonding, communication, language, learning and memory, drug addiction, and disorders such as Parkinson's, Alzheimer's, schizophrenia, depression, ADHD.
Prerequisite(s): Take PSYC-101 OR BIO-106, & PSYC-102

PSYC-370 PSYCHOLOGY OF TERRORISM (3 Credits)
Drawing on theories and research in Social Psychology, this course will examine terrorist groups, explore the beliefs of these groups, and discuss why someone would become inspired by; an affiliate with; financially support; or take action based on the beliefs or extremist ideologies of terrorist groups. The course will also examine the strategies used by terrorist groups to recruit adherents and convert them to their cause and the organizational structure of these groups.
Prerequisite(s): Take PSYC-101 or SOC-101

PSYC-371 HATE CRIMES (3 Credits)
Social psychological theories and research will be used to explore the issue of hate crimes. Topics to be addressed include social psychological theories of hate and prejudice, the development of hate crime laws, typologies of hate crimes, major types of hate crimes, investigation and prosecution of hate crimes, and the impact of hate crimes on the victims and society.
Prerequisite(s): Take PSYC-101 OR SOC-101

PSYC-382 SUSTAINABLE BEHAVIOR: DIET HEALTH AGING (3 Credits)
Sustainability is meeting our needs without compromising the ability of future generations to meet their needs. This course will explore the primary scientific literature to understand the reciprocal influences between our biology of eating (evolution, culture, physiology) and the food-production system. Our goal is to understand the relationship between food choices, cognitive, and mental health, and aging. Furthermore, those topics are set in the context of economically viable, ecologically-sound, and ethical food production systems. After reading core materials, specific topics for in-depth reading will be negotiated by participants.
Prerequisite(s): Take PSYC-202

PSYC-401 SENIOR SEMINAR (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must take the Senior Seminar. In this course students plan, conduct and write a senior thesis based on an empirical research project. The purpose of the thesis is to capstone undergraduate experiences and to provide a transition to post-baccalaureate life.
Prerequisite(s): Take PSYC-202 & (PSYC-301, 302, 303, 304, 305, 306, OR 307)
Restrictions: RG, 86+

PSYC-412 APPLIED PSYCHOLOGY (3 Credits)
Applications of Psychological principles and research methods to problems in propaganda, politics, law and health.
Prerequisite(s): Take PSYC-101 PSYC-212

PSYC-414 SPORT & EXERCISE PSYCH (3 Credits)
Sport and Exercise Psychology is an emerging field that covers a diverse range of topics including team dynamics, team leadership, exercise and sport performance, sport related health and well-being, and sport to facilitating growth and development. In addition to presenting research in these areas, this course focuses on enhancing performance in sport and exercise and sport related health and well-being.
Prerequisite(s): Take PSYC-101

PSYC-420A SP.TOP:SPORTS PSYCHOLOGY (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420AA SP.TOP: EXPERIMENTATION IN EATING (3 Credits)
Prerequisite(s): PSYC-202 AND PSYC-420Z

PSYC-420AB ANIMAL MODELS/HUMAN PSYCHOPATHOLOGY (3 Credits)
Aspects of human behavioral and cognitive dysfunction have been modeled in non-human primates and in rodents. These models give us insight into the potential environmental, neural, neurochemical, hormonal and genetic concomitants of human dysfunction. Our goal is to understand typical physiological functioning of neural circuits and malfunctioning associated with dysfunction. Our focus will be on nutrient intake, environmental exposures to toxins as well as on drug therapies. Particular topics may include advantages and limitations of animal models of: anxiety, obsessive-compulsive disorder, depression, ADHD, Parkinson's disease, schizophrenia, and some aspects of cognitive decline.
Prerequisite(s): TAKE PSYC-101

PSYC-420AC SP TOPIC: HEALTH PSYCHOLOGY (3 Credits)
Issues related to health are a national concern as obesity rates and the costs for health care rise. This course provides an overview for many topics in health psychology including addiction, illness, exercise, stress, diet, and sexual behavior. This course describes research methodologies from an evolutionary, social, cultural, political, and individual perspective. Current treatments and inventions for solving issues related to health are also introduced. In all, this course provides a diverse introduction to many topics, perspectives, and outcomes for research in health psychology.
Prerequisite(s): PSYC-101

PSYC-420AD SP TOP:RESEARCH IN HEALTH PSYCH (3 Credits)
Issues related to health are a national concern as obesity rates and the costs for health care rise. This course provides an overview for many topics in health psychology including addiction, illness, exercise, stress, diet, and sexual behavior. This course describes research methodologies from an evolutionary, social, cultural, political, and individual perspective. Current treatments and inventions for solving issues related to health are also introduced. In all, this course provides a diverse introduction to many topics, perspectives, and outcomes for research in health psychology.
Prerequisite(s): PSYC-202 AND PSYC-420AC

PSYC-420AE SP TOP: MEMORY (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): PSYC-101
PSYC-420A: SOCIAL PSY OF FOOD & IDENTITY (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): PSYC-101, SOC-101

PSYC-420AG: PSY OF TERRORISM (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

PSYC-420AH: HEALTH ANALYTICS (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): PSYC-101

PSYC-420AJ: PSYCHOLOGY OF AGGRESSION (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): PSYC-101

PSYC-420AK: LIFESPAN DEVELOPMENT (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): PSYC-101

PSYC-420B: LOVE & SEX (3 Credits)

PSYC-420C: TESTS & MEASUREMENT (3 Credits)

PSYC-420D: EVIL, FEAR & HORROR (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420E: SOCIAL INFLUENCE (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420F: HUMAN SEXUALITY (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420G: PRENATAL/INFANT DEV. (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420H: PSYCH & INTERNET (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420I: TESTS & MEASUREMENT (3 Credits)

PSYC-420J: POLITICAL PSYCHOLOGY & ENVIRONMENT (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420K: EVOLUTIONARY PSYCHOLOGY (3 Credits)
Prerequisite(s): Take PSYC-101 or BIO-105

PSYC-420L: THEORIES OF MOTIVATION (3 Credits)

PSYC-420M: HUMAN WELL-BEING (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420N: ADULTHOOD & AGING (3 Credits)

PSYC-420O: HUMAN PSYCHOLOGY (3 Credits)

PSYC-420P: THEORIES OF MOTIVATION (3 Credits)

PSYC-420Q: PSYCH & INTERNET (3 Credits)

PSYC-420R: ADULTHOOD & AGING (3 Credits)

PSYC-420T: HUMAN WELL-BEING (3 Credits)
Prerequisite(s): Take PSYC-101

PSYC-420U: SUSTAINABLE BEHAVIOR: DIET & HEALTH (3 Credits)
Sustainability is meeting the needs of the present without compromising the ability of future generations to meet their needs. Our methods of obtaining food and water, the most fundamental of human needs, have an enormous impact on the environment that we use to satisfy those needs. This course will explore the primary scientific literature to understand the reciprocal influences between our biology of eating (evolution, culture, physiology) and the food-production system. Our goal is to understand how humans’ preferences affect food choices in the context of a sustainable, ethical approach. After reading core materials, specific topics for in-depth reading will be negotiated by participants.
Prerequisite(s): PSYC-202 & Instructor Permission Required

PSYC-420V: SUSTAINABLE BEHAVIOR: DIET, HEALTH & AGING (3 Credits)
Sustainability is meeting the needs of the present without compromising the ability of future generations to meet their needs. Our methods of obtaining food and water, the most fundamental of human needs, have an enormous impact on the environment that we use to satisfy those needs. This course will explore the primary scientific literature to understand the reciprocal influences between our biology of eating (evolution, culture, physiology) and the food-production system. Our goal is to understand how diet affects disease and how disease manifests itself in behavior as we age. After reading core materials, specific topics for in-depth reading will be negotiated by participants. This course is geared toward students in the gerontology program.
Prerequisite(s): Take PSYC-202

PSYC-420W: POSITIVE PSYCHOLOGY (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420Y: PSYCHOLOGY OF LANGUAGE (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): Take PSYC-101

PSYC-420Z: SPECIAL TOPICS: PSYCHOLOGY OF EATING (3 Credits)
This course will explore the primary scientific literature to understand the reciprocal influences between our biology of eating (evolution, culture, physiology) and the food-production system. Our goal is to understand how diet affects disease and how disease manifests itself in behavior as we age. After reading core materials, specific topics for in-depth reading will be negotiated by participants. This course is geared toward students in the gerontology program.
Prerequisite(s): Take PSYC-202

PSYC-420AA: PSYCHOLOGY OF AGGRESSION (3 Credits)
An intensive study of a particular area or topic in psychology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Prerequisite(s): PSYC-101

PSYC-420AB: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AC: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AD: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AE: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AF: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AG: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AH: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AI: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AJ: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AK: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AL: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AM: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AN: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AO: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AP: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AQ: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AR: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AS: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AT: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AU: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AV: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AW: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AX: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AY: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420AZ: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BA: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BB: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BC: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BD: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BE: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BF: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BG: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BH: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BI: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BJ: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BK: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BL: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BM: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BN: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BO: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101

PSYC-420BP: PSYCHOLOGY OF LANGUAGE (3 Credits)
Prerequisite(s): PSYC-101
PSYC-423 HUMAN MEMORY (3 Credits)
Why do we remember some things and forget others? This course will examine human memory by drawing on research from neuroscience, verbal learning, and educational psychology to better understand how our memory works and what we can do to improve it. Topics covered will include: false memories, retrieval practice, sapacing, memory loss and amnesia, animal models of memory, information processing, and working memory.
Prerequisite(s): Take PSYC-101

PSYC-433 PSYCH OF PERSONALITY (3 Credits)
A survey of the various approaches to the study of personality. Also included are the determination of personality development and the methods of appraising personality. (formerly PSYC 233)
Prerequisite(s): Take PSYC-101

PSYC-469 INTR CLNIC/METH-HUM.SERV (3 Credits)
Introduces Psychology majors to clinical methods and issues in human services in preparation for fieldwork experience. Areas that are covered include: ethics, assessment, interviewing, and psychopharmacology. The objective of this class is to furnish students with information and clinical skills that will enable them to provide direct service to clients, with appropriate supervision.
Prerequisite(s): Take PSYC-101
Restrictions: RGM.24+

PSYC-470 TRNG/EDUC OF THE HANDICAPPED FLDWRK (1-3 Credits)
Prerequisite(s): Take PSYC-201 PSYC-215 PSYC-469

PSYC-471 ADOLESCENT REHAB. FIELDWORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-472 JUVENILE REHAB. FIELDWORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-472B ADV.JUVENILE REHAB. FIELDWRK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-473 TREATMENT & CARE AGED FLDWK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-474 COMMUNITY PSYCHOLOGY FIELDWORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-474A ADV. COMM. PSYCH. FIELDWORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-474B ADV.COMM.PSYCH.FIELDWORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-475 SCH.PSYCH.&GUID.COUN.FIELDWORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-475B ADV.COMM.PSYCH.FIELD WORK (1-3 Credits)
Prerequisite(s): Take PSYC-215 PSYC-469

PSYC-476 BUSINESS & INDUSTRY FIELDWORK (1-3 Credits)

PSYC-478 FIELDMWORK-TEACHING ASST (1-3 Credits)

PSYC-479 FIELDMWORK IN APP. PSYCH. RES. (1-3 Credits)

PSYC-480 IND.STY: LEARNING & MEMORY (1-3 Credits)
Independent Study in Learning and Memory

PSYC-481 IND.STY: SOCIAL PSYCH (1-3 Credits)
Independent Study in Social Psychology

PSYC-481A ADV.IND.STUDY-SOC.PSYCHOLOGY (1-3 Credits)

PSYC-481B IND STY:SPORT/EXERC.PSYCH (1-6 Credits)
Independent Study in Sport and Exercise Psychology

PSYC-482 IND.STUDY-ORGANIZATNL RESRCH (1-3 Credits)
Independent Study in Organizational Research

PSYC-482A IND.STUDY IN SOC.PERSONALITY I (6.00000 Credits)

PSYC-483 IND.STUDY-DEVELOPMNTRL PSYCH. (1-3 Credits)
Independent Study in Developmental Psychology

PSYC-483A ADV.IND.STY IN DEV.PSYCH. (1-6 Credits)

PSYC-483B IND STY: ADULT DEV & AGING (1-6 Credits)
Independent Study in Adult Development and Aging

PSYC-484 IND.STUDY-PERCEPTION (1-3 Credits)
Independent Study in Perception

PSYC-484A IND.STY: ADV.PERCEPTION (3 Credits)

PSYC-485 IND.STY:PHYSIOLOGICAL PSYC (1-3 Credits)
Independent Study in Physiological Psychology

PSYC-486 IND.STUDY-PERSONALITY (1-3 Credits)
Independent Study in Personality

PSYC-486A IND.STY: ADV. PERSONALITY (1-3 Credits)

PSYC-486B IND. STUDY-PERSONALITY (1-3 Credits)

PSYC-487 IND ST ADULT DEVELOPMENT & AGING (1-3 Credits)

PSYC-491 Res in Mechanisms and Evol of Behavior (3 Credits)
Restrictions: RGM.127

PSYC-492 RESEARCH IN COGNITIVE PSYCHOLOGY (3 Credits)
To comply with the University comprehensive examination requirements, psychology majors must complete a research course (Psyc 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and cognitive and memory to plan, conduct, and assess psychological research. Selected readings will include papers that provide perspectives on science in general, cognition, human learning and memory, problem solving, and metacognition. Students will work in groups to develop a project that will be executed this semester. Each student will write their own report on the project in an APA-formatted paper. Each group will design and present a poster at the department’s poster day at the end of the semester.
Prerequisite(s): Take PSYC-201, PSYC-202 AND PSYC-421
Corequisite(s): OR TAKE PSYC-422 OR yTAKE PSYC-423

PSYC-493 RESEARCH IN SOCIAL PSYCHOLOGY (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (Psyc 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and social psychology to plan, conduct, and assess psychological research.
Restrictions: RGM.127

PSYC-493A RESEARCH IN SOCIAL INFLUENCE (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (PSY 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and social influence to designing and examining research questions in social influence.
Prerequisite(s): Take PSYC-202
Restrictions: RGM.127

PSYC-494 RESEARCH IN PERSONALITY PSYCHOLOGY (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (Psyc 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and personality psychology to plan, conduct, and assess psychological research.
Prerequisite(s): Take PSYC-202 PSYC-433
Restrictions: RGM.127
PSYC-498 RESEARCH IN HEALTH PSYCHOLOGY (3 Credits)
To comply with University comprehensive examination requirements, psychology majors must complete a research course (PSYC 49X) in psychology. In this course, students will be asked to apply their knowledge of research methods, statistics, and health psychology to plan, conduct, and assess psychological research.
Prerequisite(s): Take PSYC-330, PSYC-201, PSYC-202 PSYC-420AH
Restrictions: RGM.127

Psychology Lab (PSYL)
PSYL-201 Psychological Research Lab I (0 Credits)
Corequisite(s): PSYC-101
PSYL-202 PSYCHOLOGICAL RESEARCH LAB II (0 Credits)
Corequisite(s): Take PSYC-202
PSYL-301 EXPER:ANIMAL LRN/MEM LAB (0 Credits)
A lecture and laboratory course emphasizing the techniques and procedures used in studying the lawful behavior pattern of lower organisms.
Corequisite(s): Take PSYC-301
PSYL-302 EXP.IN HUMAN MEM.& COGN.LAB (0 Credits)
A laboratory course exploring human memory, information processing and cognitive processes. The course will focus on experimental work, building from simple research to more complex designs, to develop a variety of research skills involved in such research.
Corequisite(s): Take PSYC-302
PSYL-303 EXP. SOC. PSYC. LAB (0 Credits)
Laboratory course concerned with the scientific methods and procedures used in the study of social psychological phenomena. Includes uses of natural observation, questionnaire surveys, controlled laboratory experimentation, and other tactics of social research. Emphasizes special problems of research, such as social demand characteristics, deception, and experimental ethics.
Corequisite(s): Take PSYC-303
PSYL-304 PER LAB:EXP & CORR RESEARCH (0 Credits)
Collection, analysis, and interpretation of data which assess relationships between personality and behavior. Special emphasis on person-situation interaction. Assessment techniques and research associated with psychodynamic, phenomenological, cognitive, and trait theories. Data analysis using computerized multiple regression will be a part of the course.
Corequisite(s): Take PSYC-304
PSYL-307 RES IN ADULT DEV & AGING (0 Credits)
Corequisite(s): Take PSYC-307
PSYL-420AA SP TOP:EXPER IN EATING LAB (0 Credits)
PSYL-420AC SP TOP:HEALTH PSYCHOLOGY LAB (0 Credits)
Corequisite(s): Take PSYC-420AC
PSYL-420AD SP TOP:RESEARCH IN HEALTH PSYCH LAB (0 Credits)
Corequisite(s): Take PSYC-420AC

Psychology, BA
The bachelor of arts program is most appropriate for the student who seeks primarily a liberal arts education, with a major in psychology and a broad distribution of electives in the humanities, natural sciences, and social sciences. A B.A. in psychology in conjunction with appropriate elective courses is an excellent preparation for careers in human services or social services, or post graduate studies in clinical psychology, counseling, developmental psychology, industrial and organizational behavior, school psychology, social psychology, business administration, or law.

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<td>AN INTRO TO BIOPSYCHOLOGY</td>
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<td>PSYC-201</td>
<td>PSYC RESEARCH: METHODS &amp; STATISTICS I &amp; PSYL-201</td>
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Cognate Courses (select ONE of the following) 4

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<td>PHYS-103</td>
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<td>CS-131</td>
<td>COMPUTER SCIENCE I</td>
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</table>

Foreign Language 4

General Education Requirements (p. 161) 37

Electives 41

Total Credits 120

1 Social/Personality/Developmental area electives
2 Cognitive/Behavioral/Health area electives
3 Any PSYC course.
4 The foreign language must be at the level of 202 or higher.

Electives

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<td>MALADAPTIVE BEHAVIOR</td>
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<td>PSYCHOLOGY OF ADOLESCENCE</td>
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<td>ADULT DEVELOP &amp; AGING</td>
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<td>PSYC-232</td>
<td>PSYCHOLOGICAL WELL-BEING</td>
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<td>PSYC-270</td>
<td>INVESTIGATIVE PSYCHOLOGY</td>
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<td>PSYC-309</td>
<td>SOCIAL INFLUENCE</td>
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<td>ORGANIZA. &amp; INDUSTRIAL PSYCH.</td>
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<td>PSYCHOLOGY OF TERRORISM</td>
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<td>PSYC-371</td>
<td>HATE CRIMES</td>
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<tr>
<td>PSYC-433</td>
<td>PSYCH OF PERSONALITY</td>
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PSYC-343  PHYSIOLOGICAL PSYCHOLOGY  3
PSYC-382  SUSTAINABLE BEHAVIOR: DIET HEALTH AGING  3
PSYC-421  SENSATION & PERCEPTION  3
PSYC-422  COGNITION  3

Other PSYC Electives
PSYC-414  SPORT & EXERCISE PSYCH  3
PSYC-469  INTR CLINIC/METH-HUM.SERV  3
PSYC-47X  (PSYC 47X - Fieldwork class)

It is recommended that students take one of the following courses to meet the General Education Quantitative Literacy Distribution:

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<td>MATH-111</td>
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<td>MATH-112</td>
<td>MATHEMATICS FOR ELEMENTARY EDUCATION II</td>
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<td>MATH-121</td>
<td>FINITE MATH FOR MGT &amp; SOC SCI</td>
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<tr>
<td>MATH-145</td>
<td>INTRODUCTION TO MATHEMATICAL CONCEPTS</td>
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Departmental Comprehensive Requirement

To comply with comprehensive examination requirements, psychology majors must take one of the capstone courses (PSYC-49X). In the capstone courses students plan, conduct and write a senior thesis. The purposes of the thesis are to capstone undergraduate experiences and to provide a transition to post-baccalaureate life. The thesis is based on an empirical research project.

First Year

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Second Year

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Third Year

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Fourth Year

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PSYC-213  GROUP DYNAMICS  3
PSYC-215  MALADAPTIVE BEHAVIOR  3
PSYC-224  PSYCHOLOGY OF ADOLESCENCE  3
PSYC-225  ADULT DEVELOP & AGING  3
PSYC-232  PSYCHOLOGICAL WELL-BEING  3
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PSYC-316  HUMAN SEXUALITY  3
PSYC-370  PSYCHOLOGY OF TERRORISM  3
PSYC-371  HATE CRIMES  3
PSYC-433  PSYCH OF PERSONALITY  3

**Cognitive/Behavioral/Health**

PSYC-222  PSYCH OF LEARN/MEMORY  3
PSYC-315  ANIMAL BEHAVIOR  3
PSYC-330  HEALTH PSYCHOLOGY  3
PSYC-343  PHYSIOLOGICAL PSYCHOLOGY  3
PSYC-382  SUSTAINABLE BEHAVIOR: DIET HEALTH AGING  3
PSYC-421  SENSATION & PERCEPTION  3
PSYC-422  COGNITION  3

**Other PSYC Electives**

PSYC-414  SPORT & EXERCISE PSYCH  3
PSYC-469  INTR CLNIC/METH-HUM.SERV  3
PSYC-47X  (PSYC-47X Psychology Capstone)  3

**Departmental Comprehensive Requirement**

To comply with comprehensive examination requirements, psychology majors must take one of the capstone courses (PSYC-49X). In the capstone courses students plan, conduct and write a senior thesis. The purposes of the thesis are to capstone undergraduate experiences and to provide a transition to post-baccalaureate life. The thesis is based on an empirical research project.

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### Second Year

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### Fourth Year

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</table>

**Total Credits 120-121**

1. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.
2. One additional natural science course (BIO, CHEM, PHYS, CS or MATH) or one additional course from the Cognitive/Behavioral/Health elective set (see page 122)

Changes in the sequence of the program may be desirable; adviser consultation required.

### Psychology, Minor

For non-majors, the following courses:

<table>
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<tr>
<td>PSYC-201</td>
<td>PSYC RESEARCH: METHODS &amp; STATISTICS I</td>
<td>4</td>
</tr>
</tbody>
</table>

Select four psychology electives chosen in cooperation with the department's minor adviser

**Total Credits 19**
DEPARTMENT OF SOCIOLOGY & CRIMINOLOGY

Department Chair: William Elenchin, Ph.D.

Faculty
Fr. D. Blake, Ph.D.
W. Elenchin, Ph.D.
S. Gavin, Ph.D.
B. Gross, Ph.D.
K. Zawicki, Ph.D.

The value set characterizing all the activities of this department is, in the last analysis, a belief in the basic dignity of every human being. From this perspective we move to the more immediate objectives: to present students with various facets of the contemporary social world in a scientific and empirical manner. Specifically, this includes analysis of social structures, interactive processes, the nature and function of institutions, social group relationships, cultural-environment interrelationships, and cross-cultural studies with some emphasis on cultures outside the Euro-American tradition.

Furthermore, the department offers to its students an orientation of self in relation to others and to basic social institutions, including the family, church and state as well as the economic, educational and governmental processes within a global framework.

The department offers a B.A. in sociology. The B.A. in sociology allows for a concentration in criminology. The department also offers minors in criminology, sociology and human services.

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The department is strongly committed to its advisory system. Each student is assigned to a faculty member who will function as that student’s adviser until graduation. The student, in serious consultation with his/her adviser, will develop a program that best balances the needs of the student with the requirements of the department.

- Criminology, BA (p. 274)
- Criminology, Minor (p. 274)
- Human Services, Minor (p. 275)
- Sociology, BA (p. 275)
- Sociology, Minor (p. 276)

Sociology (SOC)
SOC-101 INTROD. SOCIOLOGY (3 Credits)
A comparative and historical analysis of human societies.

SOC-102 SOCIAL PROBLEMS (3 Credits)
A survey course that acquaints the students with the major social problems of societies.

SOC-103 INTRODUCTION TO SOCIAL WORK (3 Credits)
A pre-professional course in social work. The general purpose of this course is to provide students with a broad understanding of social work.

SOC-104 INTRO TO GERONTOLOGY (3 Credits)
This course is an introduction to the multidisciplinary field of gerontology and provides an overview of the sociology, psychology, and physiology of aging. This course will study the variety of factors which affect aged adults in current U.S. society. These include: 1) the changing role of the elderly; 2) the sources and consequences of ageism; 3) the institutional supports and family services needed by and available to a growing aged population. Cross-cultural, ethnic, and racial differences will be examined. Interpersonal role interactions and lifestyles of the elderly will also be examined along with institutional and social level structures which impact the elderly. A key goal for students is to develop a more realistic perception of the aging process in themselves and others.

SOC-111 HONORS INTRO TO SOCIOLOGY (3 Credits)
This course is a comparative and historical analysis of human societies.

Restrictions: RG.HON

SOC-205 SOCIOLOGY OF INEQUALITY (3 Credits)
An overview of various theories and empirical investigations of social stratification. The dimensions of social class in the United States and their effect on American culture will be examined. Both a historical and cross-cultural perspective will be utilized.

SOC-206 QUALITATIVE RESEARCH METHODS (3 Credits)
This course is an introduction to qualitative methods for social research. The course will cover issues such as interviewing, focus groups, oral history and content analysis. Students will explore ethical issues in qualitative research and will learn how to write a qualitative research paper.

Prerequisite(s): Take SOC-101 or CRM-101

SOC-207 Quantitative Methods (3 Credits)
A brief introduction to the historical development of sociological research, with special emphasis placed on present-day procedures and practices.

Prerequisite(s): Take SOC-101 or CRM-101

Corequisite(s): & MATH-107

SOC-208 CONTEMPORARY SOCIAL THEORIES (3 Credits)
A brief survey of the outstanding sociological thinkers from Comte to current theorists, along with the development of the several schools of thought and their influence upon present-day sociological theory.

Prerequisite(s): TAKE SOC-101, SOC-102

SOC-222 MEDIA & SOCIAL CHANGE (3 Credits)
This course will emphasize ways in which a variety of social structures (everyday citizens, activist groups, political parties, and other social institutions) form a public sphere through various communication mediums. We will examine how the use of these mediums is double-edged in that they can be used in an attempt to either maintain political power, or to actively pursue social change.

SOC-301 CURR.SOC.PROB:FIELDWORK STUDY (3 Credits)
This course consists of a weekly classroom seminar which includes speakers, films and discussions on major social problems such as poverty, drugs, crime, the aged, the mentally deficient, child abuse, family disorganization, etc. All students are also placed for a semester in local agencies which deal with social problems. Reports of ‘in the field’ observations are submitted periodically.

Prerequisite(s): CRM-101 SOC-101 SOC-103 or SOC-308
SOC-302 CURR.PROB:FIELDMARK STUDY (3 Credits)
This course consists of a weekly classroom seminar which includes speakers, films and discussions on major social problems such as poverty, drugs, crime, the aged, the mentally deficient, child abuse, family disorganization, etc. All students are also placed for a semester in local agencies which deal with social problems. Reports of 'in the field' observations are submitted periodically.
Prerequisite(s): Take SOC-103 OR SOC-307

SOC-302A CURRENT SOC. PROBLEMS FIELDWK (1-6 Credits)

SOC-303 SOCIOLOGY OF ADOLESCENCE (3 Credits)
This course will examine the socialization experience of adolescents. The role of various social institutions, including family, peers, educational system, legal system and media will be examined in detail. The class will also focus on existing theories of adolescence in the social sciences.

SOC-308 JUVENILE DELINQUENCY (3 Credits)
Problem and causes of juvenile delinquency; legal and social considerations; medical, psychological and psychiatric aspects; needs and functions of the Juvenile Court; methods of treatment of delinquents.

SOC-314 SOCIOLOGY OF RELIGION (3 Credits)
A sociological analysis of the relationships that exist among religions, societies and individuals. The course will also develop a social scientific perspective in order to study the various systems of beliefs and practices that people have developed to understand the ultimate problems of human life.

SOC-320 SOCIAL PSYCH.OF ADDICTIONS (3 Credits)
An introduction to, and application of, social psychological theory and practice to the processes of chemical addiction. Attention is focused on the subtle transformations that help the addicted person define his or her muddled life as standard. Possibilities of addressing some of the issues of dependency are considered.

SOC-320A SOCIAL PSYCH.OF ADDICTIONS (1 Credit)

SOC-321 SOCIAL MEDIA & SOCIETY (3 Credits)
For better and for worse, life has changed rapidly due to the rise of modern communicative technologies. These changes take place at the domestic and global level, changes which influence both individuals and society. This course will use classical and contemporary theoretical perspectives for the purposes of understanding how social media alters both the macro and micro processes within the social landscape. Course materials will address contemporary issues and transformations of culture and institutions that are in many ways the product of technological expansion and the rise of mediated interaction patterns that are found everywhere in modern society today. Special attention will be paid to the overarching themes of how mediated communication patterns relate to the transformation of social institutions and organizations as well as to cultural production and consumption, communities, socialization, and selfhood.

SOC-323 MEDIA & PUBLIC OPINION (3 Credits)
This course explores how and why the American public forms opinions about social and political issues, including an analysis of the role that media play in this socialization process.

SOC-325 CRIME IN A DIGITAL SOCIETY (3 Credits)
This course will serve as an introduction to an array of social issues pertaining to deviance and the rise of new media technologies. We will also aim to identify how and why these technologies are being used for these purposes. Additionally, we will explore ways that social institutions are often able to use these digital technologies to reduce social deviance and promote social order.

SOC-341 MARRIAGE & THE FAMILY, I (3 Credits)
In what sense is the family a natural building block of all societies? Is marriage a privileged relationship marked by intimacy and sexual fidelity in most societies? Do men and women observe a similar division of duties in the household everywhere? This course looks at selected examples of these institutions in cultures that have been until recently unrelated to our own, and at the development of marriage and the family in Western society prior to the modern era, in order to answer these and other related questions.

SOC-402 FAMILY VIOLENCE (3 Credits)
This course examines violence in the family system from Sociological, Criminological and human services perspectives. The course will focus on understanding the causes and effects of familial violence, including but not limited to partner violence, child abuse and neglect, sibling and elder abuse. The course will also explore the role of human services and law enforcement agencies as well as the legal system in addressing family violence. Current social policy will also be addressed.

SOC-407 SOCIOLOGY OF EDUCATION (3 Credits)
The basic thrust of this course will be found within the sociological frame of reference. The school, the formal instrument of education, is emphasized. Stress will be placed upon social change, value conflicts and the learning implications resulting from various social processes. Such factors as age, race, ethnicity, residence of students and teachers and the social structure of the community will be analyzed for the part they play in the learning process.

SOC-408 HEALTH AND ILLNESS (3 Credits)
Sociological conceptions of health and illness are analyzed. The medical hospitals, medical school, nursing school, mental institutions and their operation are examined in relation to the values of health personnel and patients. Sociological implications of rehabilitation practices in physical and mental illness are discussed.

SOC-412 SENIOR SEMINAR (3 Credits)
Prerequisite(s): TAKE SOC-206 & SOC-207
Corequisite(s): take SOC-208 or CRM-209
Restrictions: RGM.130

SOC-413 Minorities in the United States (3 Credits)
This course describes some of the principal aspects of intergroup relations in the United States. It is a synopsis and evaluation of what sociologists and other social scientists have learned about America's minorities, the nature of prejudice, the extent of discrimination and the reactions of minority group members to differential treatment.

SOC-420 SP.TOP. IN CRIMINOLOGY (3 Credits)
An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

SOC-420A CRIMINOLOGICAL FIELDWORK (3-6 Credits)

SOC-420B SP TOP:SOC OF ADOLESCENCE (3 Credits)

SOC-420C SP. TOP. MULTICULTURAL AGING (3 Credits)

SOC-420D SPECIAL TOPICS: URBAN SOCIOLOGY (3 Credits)
Various special topics of current interest in sociology will be offered from time to time. Topics will be announced before registration. May be taken more than once but only three (3) credits will be counted toward the first 30 hours in the sociology major.
This course is based on the belief that the outstanding student should be encouraged to do independent study to obtain a mature knowledge in a chosen field in the last year of the undergraduate program. The objective of this course is to enable sociology majors as they complete their undergraduate program to renew their grasp of the essential concepts and issues as seen through the eyes of recognized authorities and to appreciate and comprehend the gamut of human relations as an integrated whole.

SOC-430D SP TOP. NATIVE AMERICANS (3 Credits)

This course is based on the belief that the outstanding student should be encouraged to do independent study to obtain a mature knowledge in a chosen field in the last year of the undergraduate program. The objective of this course is to enable sociology majors as they complete their undergraduate program to renew their grasp of the essential concepts and issues as seen through the eyes of recognized authorities and to appreciate and comprehend the gamut of human relations as an integrated whole.

SOC-430E SP TOP. GENDER & SEXUALITY (3 Credits)

This course is based on the belief that the outstanding student should be encouraged to do independent study to obtain a mature knowledge in a chosen field in the last year of the undergraduate program. The objective of this course is to enable sociology majors as they complete their undergraduate program to renew their grasp of the essential concepts and issues as seen through the eyes of recognized authorities and to appreciate and comprehend the gamut of human relations as an integrated whole.

SOC-430F SP TOP. WILDERNESS, CULTURE & THE ENVIRONMENT (3 Credits)

Research in a selected topic in Environmental Studies under the supervision of a faculty member, designed to allow the student to probe specific interests that lies beyond the coverage found in other course offerings. Area of focus within Environmental Studies may include ones within the umbrella of the natural sciences, social sciences and policy, ethics and aesthetics, or a combination of these. Faculty permission required.

SOC-430H ADVANCED READING COURSE (3 Credits)

Restrictions: RG.HON

Criminology (CRM)

CRM-101 INTRODUCTION TO CRIMINOLOGY (3 Credits)

A study of the nature and cause of crime. 3 credits. Fall.

CRM-209 CRIMINOLOGICAL THEORY (3 Credits)

A survey of the outstanding criminological thinkers from Beccaria to current theorists, along with the development of the several schools of thought and their influence upon present-day criminological theory. Pre-requisites: CRM-101. 3 credits. Spring.

Prerequisite(s): TAKE CRM-101

CRM-420 SP.TOP. IN CRIMINOLOGY (3 Credits)

An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

CRM-420A SPECIAL TOPIC: SERIAL KILLERS (3 Credits)

An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

CRM-420B SP TOP. COMMUNITY POLICING (3 Credits)

An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.
Criminology, BA

Department Chair: William Elenchin, Ph.D.

Faculty
Fr. D. Blake, Ph.D.
W. Elenchin, Ph.D.
B. Gross, Ph.D.
K. Zawicki, Ph.D.

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Requirements

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<td>SOC-206</td>
<td>QUALITATIVE RESEARCH METHODS</td>
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<td>SOC-207</td>
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An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

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An intensive study in a particular area or topic in Criminology or its applications. The content of the course will be announced prior to the semester in which it is offered. The course may be retaken if the content has changed.

It is recommended that students take MATH-107 to complete the General Education Quantitative Literacy Distribution.

The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

First Year

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Second Year

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Third Year

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Fourth Year

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</table>

Total Credits 120

Criminology, Minor

The sociology minor in criminology is designed for students who are considering possible careers in the diverse area of administrative justice. The program introduces students to the different dimensions and explanations of crime and delinquency, providing analysis of social and governmental processes in the formulation of the criminal law of the United States.

For non-majors, the following constitutes a criminology minor:

<table>
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<th>Title</th>
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<tr>
<td>SOC-101</td>
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<tr>
<td>CRM-101</td>
<td>INTRODUCTION TO CRIMINOLOGY</td>
<td>3</td>
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</tbody>
</table>
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<tr>
<td>SOC-101</td>
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<tr>
<td>SOC-102</td>
<td>SOCIAL PROBLEMS</td>
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<tr>
<td>SOC-206</td>
<td>QUALITATIVE RESEARCH METHODS</td>
<td>3</td>
</tr>
<tr>
<td>SOC-207</td>
<td>Quantitative Methods</td>
<td>3</td>
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<tr>
<td>SOC-301</td>
<td>CURR.SOC.PROB:FIELDWORK STUDY</td>
<td>3</td>
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<tr>
<td>SOC-302</td>
<td>CURR.SOC.PROB:FIELDWORK STUDY</td>
<td>3</td>
</tr>
<tr>
<td>SOC-320</td>
<td>SOCIAL PSYCH.OF ADDICTIONS</td>
<td>3</td>
</tr>
<tr>
<td>SOC-412</td>
<td>SENIOR SEMINAR 1</td>
<td>3</td>
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<tr>
<td>SOC-420</td>
<td>SP.TOP. IN CRIMINOLOGY (with Departmental approval)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 37

Foreign Language 202

General Electives 44

Total Credits 120

It is recommended that students take MATH-107 to complete the General Education Quantitative Literacy Distribution.

1 SOC-412 must be taken in conjunction with a 300-400 level class designated for the senior seminar per semester.

2 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Criminology Concentration

A sociology major wishing to concentrate in Criminology must, as part of fulfilling the degree requirements, complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC-301</td>
<td>CURR.SOC.PROB:FIELDWORK STUDY</td>
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</tr>
<tr>
<td>or SOC-302</td>
<td>CURR.SOC.PROB:FIELDWORK STUDY</td>
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<tr>
<td>CRM-101</td>
<td>INTRODUCTION TO CRIMINOLOGY</td>
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<tr>
<td>SOC-308</td>
<td>JUVENILE DELINQUENCY</td>
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<tr>
<td>Select two of the following:</td>
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<tr>
<td>NV-102</td>
<td>VIOLENCE:CAUSES/EFFECTS</td>
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<tr>
<td>PHIL-325</td>
<td>PHILOSOPHY OF LAW</td>
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<tr>
<td>POLS-205</td>
<td>LAW AND SOCIETY</td>
<td>3</td>
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<tr>
<td>PSYC-215</td>
<td>MALADAPTIVE BEHAVIOR</td>
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<tr>
<td>SOC-420</td>
<td>SP.TOP. IN CRIMINOLOGY (with Departmental approval)</td>
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Total Credits 18

First Year

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ENG-101</td>
<td>3 ENG-102</td>
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<td>SOC-101</td>
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<td>SBU-101</td>
<td>2 MATH-107 (Quantitative Literacy Distribution)</td>
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General Elective/Foreign Language 201

Total Credits 3 General Education Requirement 3

Human Services, Minor

Human services work is a broad field that includes criminal justice, substance abuse, mental health, and working with the disabled, poor and disadvantaged. The minor provides academic training and experience for graduate school. For non-majors, the following constitutes a human services minor:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC-101</td>
<td>INTROD. SOCIOLOGY</td>
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<tr>
<td>SOC-103</td>
<td>INTRODUCTION TO SOCIAL WORK</td>
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<tr>
<td>SOC-104</td>
<td>INTRO TO GERONTOLCy</td>
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<tr>
<td>SOC-206</td>
<td>QUALITATIVE RESEARCH METHODS</td>
<td>3</td>
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<tr>
<td>SOC-207</td>
<td>Quantitative Methods</td>
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<tr>
<td>SOC-301</td>
<td>CURR.SOC.PROB:FIELDWORK STUDY</td>
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<tr>
<td>SOC-302</td>
<td>CURR.SOC.PROB:FIELDWORK STUDY</td>
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<tr>
<td>SOC-320</td>
<td>SOCIAL PSYCH.OF ADDICTIONS</td>
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Total Credits 21

It is recommended that Field Work Study (SOC-301-SOC-302) be taken in the junior year. SOC-301 and SOC-302 each require 80 hours in a human service agency and a major paper.

Sociology, BA

The rationale for the department’s general requirements is based on the belief of the faculty that a broad background in the liberal arts is a necessary condition for meaningful participation in the world.

The research methods requirement, SOC-206 and SOC-207, is based on the belief that effective participation in the contemporary world requires a background in research strategies.

To achieve this goal, the student has access to the University’s academic computer system via terminals in the departmental complex. The current version of SPSSx, Statistical Package for the Social Sciences, is the principal software program used by the department. Other programs are available for use.

This allows the student hands-on experience with the current state of research technology. If a student wishes to continue this orientation, he/she may obtain a secondary concentration in computer science.

Note: A 2.00 GPA is required. These courses may not be taken pass/fail.
### Second Year

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<tr>
<td>Sociology Elective</td>
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### Third Year

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<tr>
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<td>SOC-208</td>
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### Fourth Year

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<td>SOC-412</td>
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Total Credits 117

1. The foreign language must be at the level of 202 or higher.

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student's academic adviser.

## Sociology, Minor

For non-majors, the following constitutes a sociology minor:

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<tbody>
<tr>
<td>SOC-101</td>
<td>INTROD. SOCIOLOGY</td>
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<tr>
<td>SOC-206</td>
<td>QUALITATIVE RESEARCH METHODS</td>
<td>3</td>
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<tr>
<td>or SOC-207</td>
<td>Quantitative Methods</td>
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</tr>
<tr>
<td>SOC-208</td>
<td>CONTEMPORARY SOCIAL THEORIES</td>
<td>3</td>
</tr>
<tr>
<td>Select two approved electives chosen in cooperation with the minor adviser</td>
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Total Credits 15
Theology and Franciscan Studies (THFS)

THFS-101 THE WAY OF FRANCIS & CLARE (3 Credits)

This course is intended to introduce students to the Franciscan roots that underlie the mission and values of St. Bonaventure University. After familiarizing themselves with the social and cultural context that shaped Francis and Clare of Assisi, students will examine their lives, values and spirituality, and then study how these achieved systematic theological expression in the thought of St. Bonaventure. Students will then connect and apply key Franciscan insights to contemporary concerns.

THFS-104 THE WAY OF FRANCIS & CLARE HONORS (3 Credits)

This course is designed for students in the honors Program. It achieves the same objectives and satisfies the same requirements as does THFS 101 ‘The Way of Fracis and Clare’. An honors section is distinguished from a regular section by more than just the addition of an extra paper. At the discretion of the instructor, Honors courses typically do one or more of the following: cover additional topics, cover topics in more depth, and/or require additional scholarly assignments as compared to a regular section.

THFS-200 COMPARATIVE RELIGION (221) (3 Credits)

Among the many questions that confront the student of religion today, the most challenging is religious pluralism. There are several questions that must be dealt with here: Do we study other religions merely to satisfy our curiosity, or is there a deeper dimension to this effort? Is it possible that our faith might be deepened by an awareness of the spirituality expressed in other religions, or does such an awareness shake our faith to its foundations? This course takes a close look at these and similar questions and attempts to find meaningful answers and responses. The course also examines key aspects of various world religions in an effort to reach a deeper appreciation of the spirituality of humankind.

THFS-203 ISLAM: RELIGION & CULTURE (3 Credits)

This course examines the world's second largest religion according to its three major dimensions, namely, Islam (practices), Iman (faith), and Ihsan (integration and expression), as well as a historical dimension. Topics include the social and religious climate in pre-Islamic Arabia and the eastern Mediterranean, the life of the Prophet Muhammad, the history of the Islamic community, and the beliefs, practices, and spirituality of Islam. The culture of Islam, as expressed by the arts, will also be examined. Contemporary social and political issues that face the international Muslim community are also considered.

THFS-205 MYTH AND CULTURE (3 Credits)

Why do myths play such an important role in human culture? This course introduces students to a variety of methods for understanding the role of myths in religious communities and in modern secular culture. The build of the course is devoted to an examination of the major classical and contemporary theories of the meaning and interpretation of myths (anthropological, structuralist, psychoanalytical, etc.), with examples drawn from a variety of cultures both ancient and modern.

THFS-222 RELIGION AND POLITICS (3 Credits)

Should religion be kept out of politics, or does religion have a vital role to play in political life? This course explores the influence of religion in American politics from the Plymouth Fathers to the present, with special attention to the contemporary scene. Issues to be considered include the changing place of religion in American political history, the meaning and interpretation of the religion clause of the First Amendment, the tensions between majority and minority religious and political ideologies in America, the secularist impulse in American political life, and the rise of the ‘Religious Right’.

- Theology, BA (p. 282)
- Theology, Minor (p. 282)
Religious films and films with religious themes have been around since the beginning of the cinema industry. This course will look at examples of film art that also fit into the category of religious film. Films are chosen for their value in addressing broad religious topics, not just because they carry a religious theme. Topics that might be covered include devils and angels, Jesus films, religious life, saints, and being Catholic.

Modern secular culture has raised many questions for religious faith. Traditional views of God have been challenged from a variety of directions, and the idea that one should submit one's life to a higher power runs counter to contemporary ideas about human freedom and psychological well-being. This course will examine recent critiques of belief in God and the nature of faith in order to clarify what might be required of an intelligent faith in God today.

Building upon THFS 101, this course examines classic topics in Catholic theology in further historical and conceptual depth. The specific contribution of Franciscan theologians to Catholic theology will be highlighted. Recent writings in theology will be considered.

Prerequisite(s): Take THFS-101

What does it mean to think and live as a Christian in today's world? How does one decide? This course will explore some of the answers that Christian thinkers have given to such questions. The investigation will include an examination of selected moral and theological problems such as abortion, poverty, war and racism.

Judaism, Christianity and Islam share a common spiritual heritage, but each religion has developed its own unique understanding of the way humans should approach and experience God. This course examines the mystical traditions and practices of Judaism, Christianity and Islam as expressed in their Scriptures and the writings of later spiritual leaders.

This course deals with the philosophical possibility and theoretically claimed reality of a relationship (prayer) with the Mystery that is referred to with the word ‘God.’ After consideration of relevant fundamental theological reflections it will consider the nature of prayer, contemplative prayer, Franciscan prayer and prayer in the light of evil and suffering. A visit to the Mt. Irenaeus Franciscan contemplative community is offered as a co-curricular activity of the course.

This course examines how spirituality, religiosity and faith are vital aspects (or not) of the lives of the elderly in America. Key questions are: how is ‘spirituality’ differentiated from ‘faith’ or ‘religiosity’? How is aging to be understood in respect to religious traditions? Is aging itself a spiritual/religious process? Can there be non-religious as well as religious forms of spirituality? How is gender related to aging and spirituality? Are their ‘natural’ limits to human life from a religious/spiritual perspective, and if so what do they say to the medical-technological drives to extend human life indefinitely? How does the allocation of medical resources to the care of the elderly raise questions of social justice with the Catholic tradition and more widely? How do views of an afterlife affect care for and communication with the elderly?

Jesus of Nazareth is not only the theological center of the Christian faith, but also the pivotal figure in the history of Western civilization. Debates over who he was and what he sought to accomplish have engaged the best minds of generations, and conflicts over these questions have divided nations and led to bloodshed. This course will explore the diverse and sometimes opposing views that Christians have held about Jesus over the centuries.

What is a sacrament? Why are sacraments so important in the spiritual life of the church? This course examines the theological basis of the sacramental system and presents a survey of the sacraments as celebrated in Christian churches. Included in the course is a study of symbols, rituals and the psychosocial dynamics of sacramental celebration.

The Roman Catholic Church is the largest religious institution in America. Yet for much of its history the American Catholic community has struggled to find its place in a predominantly Protestant (and often hostile) culture. This course offers an overview of the theological and historical development of American Catholicism as a specific expression of the Roman Catholic Church that has been molded in a unique way by American culture.

This course explores the different forms that the Catholic church has taken as it has adapted to diverse cultures around the world and attempts to unpack the idea of ‘catholicity’ for our contemporary time. It introduces the student to a variety of issues facing Catholic Christians that arise in the contemporary context of globalization. Contemporary sensitivity to the categories of culture, identity, and location is responsible for a vital creativity evident in contributions by various current Catholic thinkers and theologians.

Is Franciscan Theology still relevant today? The course will examine such Franciscan theologians as Alexander of Hales, Bonaventure, Duns Scotus, Peter John Olivi and others in comparison with modern and contemporary theology and philosophy to answer the following questions from a Franciscan perspective: Is theology a true science? How do we prove God's existence? What is the role of the senses and the arts in becoming aware of God? How does the human mind reflect God? How does the will relate to the intellect? How should humans relate to one another socio-economically? What is God and how is God related to the physical world? How does the Trinity make any sense? Why do we need a mystical journey as well as rational?

The Bible is a collection of books that both Jews and Christians honor as sacred Scripture, though in different ways. This course will introduce students to the historical, literary, and theological dimensions of the Bible as it has been understood by modern academic scholars and by Jews and Christians over the centuries.
THFS-271 UNDERSTANDING THE OLD TESTAMENT (3 Credits)
The collection of books that Christians call the 'Old Testament,' the first part of the Christian Bible, is also the sacred scripture of Judaism. It originated, however, before either of these religions, as a written reflection of the religious beliefs, practices, and ideals of a particular group of people in ancient Israel whom both Jews and Christians claim as their intellectual and spiritual ancestors. This course will explore the contents and message of these books in relation to their historical, literary, and theological contexts as both sacred literature of ancient Israel and canonical scriptures of Judaism and Christianity.

THFS-272 UNDERSTANDING THE NEW TESTAMENT (3 Credits)
The collection of books that Christians call the 'New Testament,' is the most important part of the Bible for Christians. It was written during the early decades of the Christian movement and serves as our principal source for information about the life and ministry of Jesus and the early history of the Christian church, including the rise of Christian theology. This course will investigate the contents and messages of the 27 books of the New Testament in relation to their historical, literary, and theological contexts in both the early Christian community and later Christian interpretations.

THFS-299 SPECIAL TOPICS (3 Credits)
An intensive study of a topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-299A BONAVENTURE, LIFE & WRITINGS (3 Credits)
An intensive study of a topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-304 RELIGION AND GENDER (3 Credits)
Religion has played a key role in defining society's understanding of women and the roles that women have been allowed to play across the centuries. This course examines how women have been viewed and treated in the major religious traditions. Special attention is given to feminist critiques of traditional religion and the struggles of women to take control of their own religious destinies.

Prerequisite(s): Take THEO-100

THFS-307 CHRISTIAN-MUSLIM REL: PAST, PRES, FUT (3 Credits)
This course examines the historical, social and theological dimensions of Christian-Muslim relations from the advent of Islam to the current day. The first part of the course addresses questions such as: How have Christians and Muslims viewed each others' faiths over the centuries? To what extent have their relations been characterized by harmony and cooperation, or by strife and discord? How have these relations changed and why? In the second part, we examine contemporary theological questions, perspectives, and debates arising from this historical interaction. We will also address inter-religious dialogue in the United States, and the future of Christian-Muslim relations.

Prerequisite(s): Take THEO-203

THFS-313 RELIGIONS OF SOUTH ASIA (3 Credits)
This course is an introduction to the religions of South Asia (modern day Pakistan, India and Bangladesh), specifically the indigenous Indic traditions of Hinduism, Buddhism, Jainism, and Sikhism, as well as those non-indigenous religions that developed a significant presence and unique expression in South Asia, namely Christianity and Islam. In addition to exploring the beliefs, customs, sacred texts, and visual cultures of these traditions, this course addresses the interaction between these faith communities both historically and currently.

THFS-320 FRANCISCAN APPROACH TO HEALTH CARE (3 Credits)
The course will teach how to look from a Franciscan perspective on the US health care system and compare with other models of health care in the past and abroad. The overall goal of the course will be to see the reality of health care in the U.S. and see how we can improve on this through the use of Franciscan values and virtues such as compassion and service.

Prerequisite(s): TAKE THFS-101

THFS-323 RELIGION AND SCIENCE (3 Credits)
Do science and religion offer competing or complementary understandings of the material world? This course explores the historic and contemporary relation between scientific and religious views of reality. Issues to be addressed include the origins of the universe ('Big Bang' cosmology), the nature of the physical universe (quantum mechanics, chaos theory), the origins of humanity (evolutionary theory), and the basis for moral conduct (sociobiology).

THFS-324 RELIGION AND RACE (3 Credits)
Religion has played a key role in the development and support of racist beliefs, attitudes and institutions in the Western world. But religion has also been a powerful tool for combating racism. This course will examine both sides of this troubling aspect of the Western religious history, with special attention to groups like the Ku Klux Klan and Black Muslims that explicitly link race and religion. Substantial attention will also be given to current scientific and sociological thinking on the subject of the race.

THFS-325 RELIGION AND ART (3 Credits)
The arts have been an important channel of religious expression from the ancient cave dwellers to the present. This course examines the role played by the arts in the Christian tradition and the modern secular world. The first part of the course focuses on the varied uses of music, painting, sculpture, etc., in the life and liturgy of the church, including theological interpretations on the role of art in liturgy. The second part examines the spiritual power of contemporary secular forms of art.

THFS-326 Religion and Science Fiction (3 Credits)
Science Fiction is one of the most popular entertainment genres today. Good SciFi movies or books project from the present to the future, thus not just revealing hidden utopian or dystopian expectations but also the cultural values of the time they were produced in. In addition, many SciFi works have a hidden eschatology. In this class, we will reveal those hidden religious metaphors and compare them with the theories and dogmas of Christian and Jewish theologies. We will explore such fundamental religious questions as what does it mean to be human, what is the ultimate nature of the universe, and theodicy. In addition to class we will meet once weekly to watch SciFi movies.
THFS-327 RELIGION AND TERRORISM (3 Credits)
The September 11, 2001 attacks on the World Trade Center buildings in New York City and the ensuing 'war on terror' have heightened public awareness of the often close link between religion and violence. This course will explore the complex and disturbing relationships between religion and violence. This course will explore the complex and disturbing relationship between religion and violence in various religious traditions. Primary attention will be given to the actions of non-governmental entities, but the course will also look at ways in which governments have used religious arguments to support acts of violence. The course will also examine ways in which religion might be used to reduce the amount and severity of religious and political violence in the contemporary world.

THFS-333 CHRISTIAN MARRIAGE (3 Credits)
A study of sexuality, spirituality and the sacrament of marriage. Utilizing experiential and historical data and a Catholic and Franciscan theological perspective, we will explore myths, realities and meanings of eros, sexuality, relational dynamics, intimacy, pornography, beauty, dating, marriage, sex, divorce, annulment, conflict resolution, commitment, parenting and spirituality. To achieve this goal, required reading, critical reflection and active class participation are essential.

THFS-333T CONTEMPORARY CATHOLIC THOUGHT (3 Credits)
The 20th century was arguably the most creative period in Catholic thought since the era of the great scholastic theologians of the Middle Ages. As it enters its third millennium, Catholic theology is marked by a many-faceted richness and vitality. This course investigates the central ideas and concerns of key twentieth century thinkers who have shaped the understanding of Catholic faith within contemporary cultures.

THFS-340 ETHICAL LEADERSHIP: FRANCISCAN VALUES FRANCISCAN PERSPECTIVE (3 Credits)
This course focuses on a healthy world, economy and our responsibility for it. It begins with the economic financial crisis of 2007-2008 and looks at the social, cultural, economic and psychological factors along with the ethical lapses that led up to it. This course then presents the major contributions that Franciscan thinkers have made to the way we can understand, accept and humanize the modern market economy. Franciscan principles and practices for a more social economy will provide students with the ethical insights and practical tools they will need in the workplace to balance freedom and responsibility, profit-making and solidarity, the care of creation and the common good.

THFS-345 CATHOLIC SOCIAL THOUGHT (3 Credits)
The course will introduce students to what has been called the greatest secret of the Catholic Church- its social teaching. Students will begin by exploring the historical and religious origins of the basic principles of Catholic Social Thought-the sacredness of human life, and the dignity of the human person. They will learn how that teaching has been articulated in Church documents, and has found expression in the Church and in secular movements. Ultimately, the course is not just another academic offering, but an integral part of the mission of the University. It is a key component of the University's response to the Church's call for a fuller integration of the Church's social tradition into the mainstream of Catholic education. The course will help demonstrate the University's commitment to human life, human dignity, and human rights.

Prerequisite(s): Take CLAR-106 CLAR-107

THFS-347 HEALTH, FAITH & ETHICS (3 Credits)
This course introduces students to and acquaints them with the ways in which religious convictions and practices shape understandings of health and wholeness and, concomitantly, how health care should be administered to all in a just, right and equitable manner as people created in God's image. Questions of social justice and allocation of limited resources, especially to vulnerable populations like the elderly and the poor are considered. Specific ethical issues are treated within the purview of a spiritual/religious vision of human beings.

THFS-349 ISSUES IN CHRISTIAN ETHICS (3 Credits)
This course will examine how Christian ethical principles can be used to analyze a particular ethical problem. The content of the course will be announced in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-357 MERTON'S HEART: JOURNEY & THOUGHT (3 Credits)
Thomas Merton, a one-time faculty member at St. Bonaventure, was one of the most influential spiritual writers of this century. This course takes students on a journey through the life and writings of Thomas Merton. The course includes an analysis of Merton's theological reflections on comparative religious experience and his prophetic approach to social problems that arose out of his contemplative awareness.

THFS-358 JUDAISM FROM ABRAHAM TO THE MODERN ERA (3 Credits)
This course is intended to introduce students to the major events, figures and themes of Jewish history from Biblical times to the post-WWII era. It explores political, social, cultural, intellectual and religious aspects of this history. We will pay particular attention to central individuals and their experiences as a way of gaining insight into significant moments in Jewish history. We will also concentrate on the changing temporal and geographic contexts, acknowledging both commonalities and exceptional experiences of various Jewish communities. This course seeks to understand how Jews at times served as the agents of historical change, and at others reacted to changes imposed on them by non-Jewish societies.

THFS-359 FRANCISCAN SPIRITUALITY (3 Credits)
The Franciscan movement has given rise to a distinctive spirituality, a whole way of approaching life. This course will first focus on the religious experience of Francis and Clare of Assisi as seen in their life choices and writings. We will examine their distinctive vision of God, creation, and human relationships, and the ways these insights were developed by later authors. Then, key features of the 'life according to Gospel' which they fashioned will be examined, and finally, we will bring Franciscan spirituality to bear on issues in contemporary society.

Prerequisite(s): CLAR-207 OR FS/THEO-101

THFS-359T STY IN SPIRITUAL TRADITIONS (3 Credits)
An intensive study of a particular issue or thinker in historic or contemporary spirituality. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-360 EARLY HISTORY OF CHRISTIANITY TO THE REFORMATION (3 Credits)
For much of the last 2,000 years, the history of Western civilization has been framed around the history of the Christian church. This course surveys the history of Christianity from the Apostolic Fathers to the Modern Era. Attention will be given to the social, institutional and intellectual aspects of the Christian faith.
THFS-362 FRANCIS & FRANC. TRADITION (3 Credits)
The spiritual movement initiated by Francis of Assisi has played a key role in the spiritual and intellectual life of the Catholic church from the Middle Ages to the present. This course will examine the life of St. Francis and his impact on the church and the world. The course will also look at some of the great Franciscan scholars like St. Bonaventure in order to explore the influence and applications of Franciscanism to the modern world.

THFS-366 FRANCISCAN THEOLOGY FOR TODAY (3 Credits)
Is Franciscan Theology still relevant today? The course will examine such Franciscan theologians as Alexander of Hales, Bonaventure, Duns Scotus and Peter John Olivi in comparison with modern and contemporary theology and philosophy to answer the following questions from a Franciscan perspective: Is theology a true science? What is God and how is God related to the world? How does the Trinity make any sense? What's so special about the person of Christ? What is more important to us: the will or the intellect? What does the Holy Spirit have to do with history? What does theology have to do with socio-economics? The course will be based around discussions of most interesting topics and will feature several guest speakers.

THFS-368 BODY, SEX AND SACRAMENT (3 Credits)
The Christian tradition has always been uncomfortable discussing issues pertaining to the body and sexuality. Why would this be? This course examines the reasons for this discomfort and offers a more positive assessment of ‘embodiment’ as a vital aspect of Christian theology and spirituality. The course will include a constructive interpretation of Catholic teachings about ritual and sacraments, the incarnation of Jesus and human sexuality.

THFS-374 WOMEN AND THE BIBLE (3 Credits)
The Bible was written by, for, and about men. As a result, it reflects the ideas, judgments, and world views of men. This course examines how this male-centered perspective affects the way women are portrayed (or more often ignored) throughout the biblical record. The contributions of women to the social and religious life of ancient Israel and the early Christian church are regularly downplayed in these writings, and negative images and stereotypes of women abound. The few women who are honored for their accomplishments are notable exceptions to the rule.

THFS-382 RELIGIOUS EDUCATION (3 Credits)
Educational theories have sparked a variety of approaches that have been applied to the ministry of religious education. This course explores some of the key theoretical models of religious education and evaluates the strengths and weaknesses of each approach. This course, while exploring some of the key theoretical models of religious education, will focus substantially on pastoral experience, and how the model of religious education in pastoral situations is more a collection of approaches than merely one type of approach.

THFS-385 SPECIAL STUDIES IN RELIGIOUS EDUCATION (3 Credits)
An intensive study of a topic or issue pertaining to religious education. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken more than once provided the content has changed.

THFS-399 SPECIAL TOPICS (3 Credits)
As intensive study of a topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken again provided the content has changed.

THFS-399A SP TOP: HISTORY OF CHRISTIANITY: REFORMATION TO PRESENT (3 Credits)
As intensive study of a topic or issue not usually addressed in other courses offered by the department. The topic of the course will be advertised in the course schedule prior to the semester when it is offered. The course may be taken again provided the content has changed.

THFS-430 THEOLOGICAL METHOD (3 Credits)
Contemporary theologians use a variety of methods as they seek to conceptualize and communicate the Christian faith in an increasingly pluralistic world. This course will survey a variety of contemporary approaches to theological reasoning through an examination of key themes and issues.

Prerequisite(s): CLAR-206 AND CLAR-207
Restrictions: RGC.105

THFS-440 CONTEMPORARY MORAL THEOLOGY (3 Credits)
Debates over moral and ethical issues have become increasingly complex with the rise of modern science, the gradual secularization and diversification of Western culture, and the ‘turn to the subject’ in modern thought. Christian ethicists have had to develop new ways of thinking about moral issues and moral agency in light of these challenges. This course looks at some of the conceptual problems associated with the practice of moral theology in the contemporary world and investigates some of the ways in which Christian moral theologians have sought to address these challenges.

Prerequisite(s): CLAR-206 & CLAR-207
Restrictions: RGC.105

THFS-460 HIST. OF CHRISTIANITY (3 Credits)
For much of the last 2,000 years, the history of Western civilization has been framed around the history of the Christian church. This course surveys the history of Christianity from the Apostolic Fathers to the Modern Era. Attention will be given to the social, institutional and intellectual aspects of the Christian faith.

Prerequisite(s): TAKE CLAR-106 AND CLAR-107
Restrictions: RGC.105

THFS-470 CONTEMP BIBLICAL INTERPRET (3 Credits)
Theologians and biblical scholars have subjected the Bible to rigorous critical investigation since the rise of the historical-critical method in the 18th century. This course examines the tools and methods used by contemporary scholars in their studies of the Bible, with an emphasis on more recent developments. Students will learn to use the tools and methods of modern scholarship through the study of selected texts from the Hebrew Bible and Christian Scriptures.

Prerequisite(s): TAKE THFS 101
Restrictions: RGC.105

THFS-470A CONTEMPT BIBLICAL INTERPR (1-6 Credits)
Under the guidance of a professor, the student will pursue an advanced research project that involves significant reading and writing.

THFS-490A IND.STY:READINGS IN THEOLOGY (1-6 Credits)
Under the guidance of a professor, the student will pursue an advanced research project that involves significant reading and writing.
THFS-495 REL. EXPER. OF THOMAS MERTON (3 Credits)
Students may earn academic credit while working in a religious organization under the supervision of both a religious organization under the supervision of both an on-site director and a faculty member who will assign and evaluate reading and writing assignments appropriate to the experience. Students are responsible for arranging their own internships in advance of the semester for which academic credit is sought. All internships must be approved by the department.
Restrictions: RGC.105

THFS-498 SEMINAR IN THEOLOGY (3 Credits)
An integrative capstone course for theology majors and minors. The course will explore a particular topic, theme, issue or author from a variety of theological perspectives. The topic of course will be advertised in the course schedule prior to the semester when it is offered. The course is required of all senior theology majors.

Theology, BA

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td></td>
<td><strong>Theology</strong></td>
<td>33</td>
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<tr>
<td></td>
<td><strong>Foreign Language 202</strong></td>
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<tr>
<td></td>
<td>General Education Requirements (p. 161)</td>
<td>37</td>
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<tr>
<td></td>
<td><strong>General Electives</strong></td>
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<td><strong>Total Credits</strong></td>
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1. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Required Theology Courses
Theology requirements are divided into four categories: Foundational (12 credits), Franciscan Studies (6 credits), Electives (12 credits), and the Senior Seminar (3 credits). Majors are also strongly encouraged to take a course in another non-Christian religion, either through their ‘Diversity’ requirement or through an ‘Elective.’

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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td></td>
<td><strong>Foundational Requirements (All courses listed here are required of the major)</strong></td>
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<tr>
<td></td>
<td>THFS-101 THE WAY OF FRANCIS &amp; CLARE</td>
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<td></td>
<td>THFS-270 INTRO TO THE BIBLE</td>
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<td>THFS-345 CATHOLIC SOCIAL THOUGHT</td>
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<td>THFS-235 (course description to be added soon)</td>
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<td></td>
<td><strong>Franciscan Studies (Choose any two courses)</strong></td>
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<tr>
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<td>THFS-266 FRANCISCAN THEOLOGY FOR TODAY</td>
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<td>THFS-320 FRANCISCAN APPROACH TO HEALTH CARE</td>
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<td>THFS-340 Ethical Leadership: Franciscan Values</td>
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<td>FRANCISCAN PERSPECTIVE</td>
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<td>THFS-359 FRANCISCAN SPIRITUALITY</td>
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<td>THFS-362 FRANCIS &amp; FRANC. TRADITION</td>
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<td>THFS-366 FRANCISCAN THEOLOGY FOR TODAY</td>
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<td><strong>Electives (Choose any four THFS courses. This includes further courses in Franciscan Studies listed above.)</strong></td>
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<td>THFS-200 COMPARATIVE RELIGION (221)</td>
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<td>THFS-203 ISLAM: RELIGION &amp; CULTURE</td>
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<td>THFS-205 MYTH AND CULTURE</td>
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<td>THFS-222 RELIGION AND POLITICS</td>
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Theology, Minor

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<td>THFS-101 THE WAY OF FRANCIS &amp; CLARE</td>
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<td>THFS-270  INTRO TO THE BIBLE</td>
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<td>THFS 235 (course description to be added soon)</td>
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<td></td>
<td><strong>Theology Electives</strong></td>
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<td><strong>Total Credits</strong></td>
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DEPARTMENT OF VISUAL AND PERFORMING ARTS

Department Chair: Leslie Sabina, Ph.D.

Faculty
A. Mormile, M.F.A
L. Peterson, M.M.
L. Sabina, Ph.D.
E. Simone, Ph.D.

The Department of Visual and Performing Arts offers majors and minors in each of three areas: music, theater, and visual arts. The visual and performing arts are necessary elements in a liberal arts education. Whether we are creators or appreciators, the arts engage us in a dialogue of perception, imagination and reflection involving the entire range of human experience.

The arts give meaning to our lives, amplify our emotions and ideas, offer us a cross-cultural community, and allow us to bring deeper awareness and unique perceptions to any career.

- Music, BA (p. 291)
- Music, Minor (p. 292)
- Theater, BA (p. 292)
- Theater, Minor (p. 293)
- Visual Arts, BA (p. 293)
- Visual Arts, Minor (p. 294)

Music (MU)

MU-101 CONCERT BAND (1 Credit)
Performance and study of original and transcribed literature for the concert band. Emphasis on ensemble and sectional rehearsals sight-reading and public performances. Audition may be required. May be repeated for credit.

MU-102 CONCERT CHOIR (1 Credit)
A group of mixed voices which studies and performs major choral works in addition to standard sacred secular music. More advanced students will be selected by audition to participate in the Chamber Singers.

MU-102A CHAMBER SINGERS (1 Credit)

MU-103 JAZZ BAND (1 Credit)
Performance and study of works arranged for standard jazz band instrumentation. Emphasis on ensemble and sectional rehearsals, basic jazz improvisation techniques and public performances. Audition may be required. May be repeated for credit.

MU-104 SMALL ENSEMBLE (1 Credit)
Performance and study of works arranged for various chamber ensembles (such as brass quintet, woodwind quintet, etc.). Public performances required. Audition may be required. May be repeated for credit.

MU-105 APPLIED MUSIC (1 Credit)
Private instruction in voice, piano, percussion and various other instruments. Previous experience in the performance area is required. Audition may be required. May be repeated for credit.

MU-111 UNDERSTANDING MUSIC (3 Credits)
The chief aim of this course is to help the student learn how to critically listen to music. Areas of study include: elements of music, important musical genres, major composers and 20th century music. Although this course emphasizes ‘art’ music of western civilization, experiences with other types of music are also provided (e.g., jazz, folk, film music, etc.)

MU-111C UNDERSTANDING MUSIC (3 Credits)
The chief aim of this course is to help the student learn how to critically listen to music. Areas of study include: elements of music, important musical genres, major composers and 12th century music. Although this course emphasizes ‘art’ music of western civilization, experiences with other types of music are also provided (e.g., jazz, folk, film music, etc.)

MU-121 MUSIC THEORY I (3 Credits)
A course designed to provide a workable knowledge of the principles involved in 4-part harmonization. Experiences are provided in reading and writing music, and creative activities. A basic understanding of musical rudiments is desirable, but not a prerequisite.

MU-122 MUSIC THEORY II (3 Credits)
Continuation of MU 121. Areas of study include: non-diatonic harmony, 20th-century theoretical/compositional principles (e.g., serialism, set-theory, etc.) and non-traditional music notational systems.
Prerequisite(s): Take MU-121

MU-211 MUSIC HIST I: MUS. BEGINNINGS (3 Credits)
This course is designed to help the student discover the origins of Western music. This history of music will be traced from Ancient Greece and Rome, through Gregorian chant and culminating in the Baroque period (1750). Emphasis is placed on the contributions of leading composers and on the general style characteristics of the music.

MU-212 MUSIC HISTORY II: THE COMMON PRACTICE PERIOD AND BEYOND (3 Credits)
A survey of music from the Baroque through the Romantic periods. Emphasis is placed on the leading composers and on the general stylistic characteristics of the music. The chief aim of this course is to help students learn about the styles and composers of the ‘Common Practice Period:’ the Baroque, Classical and Romantic periods in music, culminating in the advent of music in the Modern Period. Emphasis is placed on the leading composers of each period and the general style characteristics of the music. Through lectures, reading, listening and discussion, students will gain insight into the compositional ideas of each period, as well as the historical events that affected the arts.

MU-212H MUSIC HIST II: CLASS/CONT-HON (3 Credits)
Restrictions: RG.HON

MU-213 MODERNISM AND POST-MODERNISM (3 Credits)
The chief aim of this course is to help students learn about the styles and composers of the 20th century and beyond. Through lectures, reading, listening and discussion, students will gain insight into the compositional ideas that created the chaos and controversy of Modern and Post-Modern music, and explore the historical events that affected the arts.

MU-221 COMPOSITION (3 Credits)
An introduction to the creative processes of composition. Techniques relevant to both traditional and contemporary compositional forms will be discussed and practiced. Performances of student compositions will be encouraged.

MU-231 JAZZ IMPROVISATION (3 Credits)
A laboratory course is designed to acquaint the instrumentalist with the art of jazz improvisation. In-class student performance will be developed and encouraged and classic recorded jazz solos will be studied and analyzed.
MU-233 ELEM. CONDUCTING (3 Credits)
The techniques of conducting both with and without baton. Techniques include metrical patterns, fermatas, cut offs, cues, entrances, tempi, moods, etc. Students will conduct both live and recorded performances. (Formerly MU 300).

MU-312 AMERICAN MUSIC (3 Credits)
A survey of music of the United States from European colonization to the present. Included in the course will be an overview of the music of Native Americans, the first New England school, the rise of American popular music, and the development of an American classical tradition. The course will culminate with the art music and mixed media of the 20th century.

MU-313 HISTORY OF JAZZ (3 Credits)
A survey of jazz from its earliest origins to the present. Emphasis is placed on the leading performers and their contribution to the development of the art form.

MU-314 HISTORY OF MUSICAL THEATER (3 Credits)
An overview of the American musical theater productions from the mid-nineteenth century to the present, with a concentration on the musical content of a number of individual musicals through recordings and videos.

MU-315 WORLD MUSIC (3 Credits)
A survey of music of other cultures through the concept of ethnomusicology. Music of Africa, Asia, the Near East, the Pacific and Latin America will be emphasized. Additionally, Native American and other non-traditional western music will be studied.

MU-315C WORLD MUSIC (3 Credits)
A survey of music of other cultures through the concept of ethnomusicology. Music of Africa, Asia, the Near East, the Pacific and Latin America will be emphasized. Additionally, Native American and other non-traditional western music will be studied.

MU-316 HISTORY OF ROCK & ROLL (3 Credits)
This course will be a historical overview of popular music primarily from the second half of the 20th century to the present. The course examines rock and roll in all of its forms, starting with the precursors of rock and roll and ending with current trends in the popular music scene. Changes in music production and distribution, evolutions of instrumentation and style and the advent of electronics and technology will be addressed.

MU-321 JAZZ ARRANGING (3 Credits)
Examination of melodic, harmonic, and rhythmic considerations in modern jazz band arranging. Students create original arrangements for a variety of instrumentations, from small groups to big band. Student performance of student arrangements is encouraged. Prerequisite: MU 122. 3 credits. Fall.
Prerequisite(s): TAKE MU-122

MU-399 SPECIAL TOPICS IN MUSIC (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399A SP TOPICS: MODERNISM (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399B SP TOP PIANO LITERATURE (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399C SP TOP: iPAD MUSIC PRODUCTION (3 Credits)
MU-399D SP TOP: CHAMBER MUSIC LIT (3 Credits)
MU-399E SP TOP: MUSIC HISTORY MODERN (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399E SP TOP: MUSIC HISTORY MODERN HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399F SP TOP: PRODUCTION & SOUND DESIGN (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399FH SP TOP: PRODUCTION & SOUND DESIGN HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399G SP TOP: MARIMBA MUSIC (3 Credits)
MU-399H SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399I SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399J SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399K SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399L SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399M SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399N SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399O SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399P SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399Q SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399R SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399S SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399T SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399U SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399V SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399W SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399X SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399Y SP TOP: JAZZ/composer/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

MU-399Z SP TOP: MARIMBA MUSIC HONORS (3 Credits)
A study of a specific topic in music, such as genre (opera, chamber music, etc.), composer or theoretical/compositional technique (counterpoint, arranging, etc.) as warranted by student demand. May be repeated for credit.

Theatre (THTR)

THTR-101 INTRODUCTION TO THEATER (3 Credits)
This course traces the development of theater production and performance through scripts and audiovisual documentation. The perspective is global and includes theater from Asia, Africa and Latin America as well as Europe and the U.S. Various styles of acting and directing are discussed, as is the development of various methods of staging and stage technology. The ‘who, how, what, when and why’ of theater.

THTR-130 STAGECRAFT & THEATER TECH. (3 Credits)
This course is a lab in basic theater technology--set building, painting and finishing; lighting, sound, effects, prop making and maintenance, and costume. Emphasis is on participation and completion of lab assignments developing and implementing sets, props, and lighting for SBU Theater productions.

THTR-201 ACTING IN CHARACTER (3 Credits)
This lab course in creating characters for stage and other media in the body, mind and voice uses exercises, monologues and some limited scene work from a variety of plays and other media. Emphasis is on increasing the individual student actor's awareness and reactions to the emotional elements of character in monologues and two-person scenes. Memorization and rehearsal outside class are required.

THTR-211 HIST OF AMERICAN THEATER (3 Credits)
A survey of American theater performance and playwriting from early colonial works to the present, emphasizing the developments in the 20th and 21st centuries, including video and film versions of theater texts, and, when possible, trips to see area productions.
THTR-212 EUROPEAN THEATER HISTORY (3 Credits)
This course is designed to survey the texts and theatrical production of European theater from the Renaissance to the present, with emphasis on post 19th century production developments and texts. We'll read play texts, watch several videos and filmed versions of plays, and discuss the history and nature of various genres of European theater, and its influences in a theatrical rather than literary context.

THTR-230 THEATRICAL DESIGN (3 Credits)
This course is designed to teach the elements and history of set, lighting, costume and sound design and to afford students the opportunity to develop and design in a simulated or actual production setting. Using the skills and concepts from THTR 130, the student will learn to collaborate with the director in designing effective and creative elements that support the production concept, the actors and the text.

THTR-299 SBU THEATER PRODUCTION (1 Credit)
Credit for student work in faculty-directed SBU Theater season productions, either in tech and on-stage performance. Student must successfully audition or interview for SBU Theater production at the beginning of the semester and complete all required rehearsal/run assignments and shop hours. May be required for credit.

THTR-301 ACTING IN ENSEMBLE (3 Credits)
This is a lab course in creating characters for stage and other media using ensemble exercises and scene work for multiple actors from a variety of plays and other media. Emphasis is on increasing the student actor's awareness and reactions to the emotional give and take and changing relationships within scenes involving more than two actors. Memorization and rehearsal outside class are required.

THTR-333 ACTING FOR THE CAMERA (3 Credits)
This is a lab course in developing the specific skills needed to create character for the camera. Emphasis is on in-class scene and monologue work, and exercises designed to work specifically for the camera. Memorization and rehearsal outside class are required.

THTR-334 ACTING STYLES & MOVEMENT (3 Credits)
A lab course designed to help the student actor develop the techniques used in creating character for various genres of theater--farce, Restoration and 18th century, high comedy, Shakespeare, et. al. Emphasis on period movement, use of props, gesture, and integration of character with text. Memorization and rehearsal outside class are required.

THTR-335 VOICE & DICTION FOR ACTORS (3 Credits)
A foundation lab course in developing safe and effective techniques for voice production in character. Emphasis on healthy projection, clean articulation, control of regional dialects, and finding the emotional voice in the text through sonic exploration, Memorization and rehearsal outside class are required, as is the practice of vocal exercises.

THTR-379 SPECIAL TOPICS IN THEATER (3 Credits)
This course is designed to provide the theater major the opportunity to explore aspects of theatrical production and scholarship of special interest to the student, through research, rehearsal, and written documentation. The course may also take the form of physical exploration of valid movement, design or acting concepts or techniques not covered in established theater courses; but of benefit to the student's overall educational goals and objectives.

THTR-379B SP TOP: THEATER MAKEUP/HAIR (3 Credits)
THTR-379C SP TOP: IMPROV FOR THEATER (3 Credits)
THTR-379D SP TOP: THEATER MAKEUP/HAIR (3 Credits)
THTR-379B SP TOP: DEVISED THEATER (3 Credits)
This course is designed to provide the theater major the opportunity to explore aspects of theatrical production and scholarship of special interest to the student, through research, rehearsal, and written documentation. The course may also take the form of physical exploration of valid movement, design or acting concepts or techniques not covered in established theater courses; but of benefit to the student's overall educational goals and objectives.

THTR-401 DIRECTING (3 Credits)
A course in the basics of directing for the stage including dramaturgical research and text preparation, character analysis, developing a ground plan, dealing with set and light design, blocking, auditioning, and rehearsing. In-class scene work allows students to direct each other and develop skills collectively. Outside rehearsal may be required.

THTR-412 SHAKESPEARE IN PERFORMANCE (3 Credits)
This course is designed to explore the techniques and historical approaches to performing and producing Shakespeare's plays on stage and in the cinema. The goal is to help the student understand a phenomenological, practical and aesthetic differences between reading a Shakespeare play and doing one. Acting and design elements are discussed and demonstrated through in class viewings of filmed and live performances, and possible field trips to view Shakespeare productions. Can be taken as Honors course.

THTR-412H SHAKESPEARE IN PERFORM-HONORS (3 Credits)
This course is designed to explore the techniques and historical approaches to performing and producing Shakespeare's plays on stage and in the cinema. The goal is to help the student understand a phenomenological, practical and aesthetic differences between reading a Shakespeare play and doing one. Acting and design elements are discussed and demonstrated through in class viewings of filmed and live performances, and possible field trips to view Shakespeare productions. Can be taken as Honors course.

Restrictions: RG.HON
**Visual Arts (VA)**

**VA-101 ART & ITS APPRECIATION (3 Credits)**
This introductory course is designed to give the student a working understanding of the meaning of art and its influence and application in our lives. Thorough attention will be given to the problems of artistic expression, content and form in two- or three-dimensional works of art. By examining the role of the artist we study arts implications, influences, visual language and interpretation by contemporary society. Periodically, original works of art from the St. Bonaventure University art collection will be used to develop the student's critical awareness of individual discernment when engaged with the visual arts and images.

**VA-101C ART & ITS APPRECIATION (3 Credits)**
This introductory course is designed to give the student a working understanding of the meaning of art and its influence and application in our lives. Thorough attention will be given to the problems of artistic expression, content and form in two- or three-dimensional works of art. By examining the role of the artist we study arts implications, influences, visual language and interpretation by contemporary society. Periodically, original works of art from the St. Bonaventure University art collection will be used to develop the student's critical awareness of individual discernment when engaged with the visual arts and images.

**VA-110 GRAPHIC DESIGN I (3 Credits)**
This introductory course is designed to build foundational skills in Graphic Design with an emphasis on Adobe Illustrator, color, imagery, typography, composition and layout. Software such as Adobe Photoshop and Adobe InDesign will also be discussed and available. Throughout this course students will develop an understanding of the basic terminology used in the design field while studying and producing logo designs, poster layouts, label design, and digital art.

**VA-111 DRAWING I (3 Credits)**
This course is designed as an introduction to the creative process and its function for expression through the visual arts. All drawing media will be treated as a means of developing powers of observation, technical skills and understanding of the formal aspects of line, space, form, perspective, value, design and composition. Image surveys and group critiques will be included to further the student's understanding of the visual language of art (Formerly FA-465). There is an additional course fee, commensurate with the materials provided for student production.

**VA-121 PAINTING I (3 Credits)**
This course offers an introductory experience, both theoretical and pragmatic, into the nature and varied purposes of painting. Mediums explored will include acrylic on canvas and watercolor and mixed-media on paper. The emphasis will be on discovering the properties and expressive components of composition, value, color and content. The formal elements of art as visual language will be approached through objective and non-objective means. Preparatory and conceptual studies in drawing media will be included. There is an additional course fee, commensurate with the materials provided for student production.

**VA-131 SCULPTURE I (3 Credits)**
This studio-oriented course will introduce students to the theories and processes of sculpture. The course will emphasize three-dimensional design theory, terminology, principles, and techniques. Class participants, therefore, will learn to recognize the sources of design, apply the elements and principles of design, research the potential of various design media, critique designs using design terminology, and analyze design choices in problem solving. There is an additional course fee, commensurate with the materials provided for student production.

**VA-141 CERAMICS I, HANDBUILDING (3 Credits)**
This course will introduce students to various handbuilding methods; pinching, coiling, soft slab and hard slab, as well as different surface enhancements. Students will also learn about glazing and firing ceramics into a finished product.

**VA-141A CERAMICS II (3 Credits)**

**VA-141B ADV. CERAMICS III (3 Credits)**

**VA-151 PRINTMAKING I (3 Credits)**
This course will introduce students to the printmaking techniques of monotype, linoleum block, wood block, calligraphy and silk-screen. Students will also learn how to prepare how to prepare their prints for presentation. There is an additional course fee, commensurate with the materials provided for student production.

**VA-161 TWO-DIMENSIONAL DESIGN (3 Credits)**
Design means to plan, to organize. The design student plans the arrangement of elements to form a visual pattern. Through a series of visual problems developed by the student and instructor, the student will be required to depict creative visual specific solutions using the design process. The student’s creativity will be enhanced through his/her originality, imagination and ability to resolve visual problems with unusual solutions.

**VA-162 THREE-DIMENSIONAL DESIGN (3 Credits)**
This is an introductory course concerning the conception and production of three-dimensional art. Students will be given design problems to solve with readily available materials and basic techniques. Students will explore the aesthetic and practical considerations of working in the round.

**VA-171 THE IMAGING JOURNAL (3 Credits)**
The healing qualities of both journal writing and image making are joined together in creating an Imaging Journal. The intimacy of the sketchbook format allows images to surface from memory and imagination. Guided explorations in monotype, watercolor, and collage offer an enriched form of language. Experiments in design, color, composition, sequential imaging, visually expressive text, and artists’ methods and materials are included. This course may be especially useful for students contemplating vocations such as fine arts, graphic design, education, theology, expressive therapies and the healing professions. No prior art skills are required. There is an additional course fee, commensurate with the materials provided for student production.
VA-181 BLACK & WHITE PHOTOGRAPHIC IMAGES (3 Credits)
This introductory course engages and investigates the aesthetic qualities of the black and white photographic image including design, composition, positive/negative space, tonal elements, line, and texture. The course addresses issues of content and subject matter through a survey of several master photographers that will involve student research. Students will also explore aesthetic principles by shooting several rolls of black and white film documenting the particularity of their own lives at St. Bonaventure University and aspects of the neighboring communities.

VA-201 ART HIST: ANCIENT CIVILIZATION (3 Credits)
This course introduces students to the ancient peoples of early civilizations. The first of a three-course sequence in survey format, we study the development of images in painting, sculpture, and architecture from antiquity through the middle ages. Course content focuses on major images of the Stone Age, Near East, Egypt, the Aegean, Greece and Roman cultures, followed by the early Christian, Byzantine, Islamic, and Gothic traditions. Lectures, discussions, and student research projects are presented that concern how art reflects culture, and is informed by social, political and religious influences.

VA-201C ART HIST: ANCIENT CIVILIZATION (3 Credits)
This course introduces students to the ancient and often mysterious peoples of early civilizations. Lectures and discussions concerning how art reflects their culture as well as social, political and religious influences will be presented. We study such cultures as ancient Mesopotamia, Greece, Egypt, the Far East and the Roman Empire, followed by the early Christian, Byzantine and Gothic traditions. Interdisciplinary lectures, slides, student research and a museum visit will be part of the course content.

VA-202 ART HIST: EARLY RENAISS/ROMANT M (3 Credits)
Master and transitional artists from the late 14th century through the 19th century form the main content of this, the second course of the three-course survey sequence. In general, this course studies major realistic images in two- and three-dimensional formats. Development of art movements in the western artistic tradition, combined with innovations in art production of the time, help the student identify influences upon succeeding art movements and then artists’ intents while executing their works. Movements include Renaissance, Baroque, Rococo, Romanticism, and Modern art of the late 19th century. Students use analytical and contextual analysis as the main tools of the contemporary research methods, which are presented in this course. Frequent visits to the St. Bonaventure University Art collection, which is housed in the university’s The Regina A. Quick Center for the Arts, give students a unique opportunity to study original works of art, their preservation, conservation and restoration.

VA-210 GRAPHIC DESIGN II (3 Credits)
This course will continue to build upon the foundational skills learned in Graphic Design I. Students will continue to utilize Adobe Illustrator in combination with Adobe Photoshop to build their portfolio. The entire Adobe Suite will also be discussed and available. Throughout this course students will develop a better understanding of the design field through a variety of projects. This course will culminate in an exhibition of products designed by students and produced by a variety of online companies.

Prerequisite(s): Take VA-110

VA-211 DRAWING II (3 Credits)
This course is designed as a continuation of Drawing I. Students will further develop their technical skills and understanding of the drawing medium. Color will be introduced to the student with emphasis on life and figure drawing. Image surveys and group critiques are an integral part of this course. There is an additional course fee, commensurate with the materials provided for student production.

Prerequisite(s): Take VA-111

VA-221 PAINTING II: INTERMEDIATE (3 Credits)
This course offers theoretical and pragmatic explorations in painting on an intermediate level allowing students to choose acrylic paints or to engage in a special focus on the use of oil paint. Advanced representational and expressive investigations into selected content such as still life, portrait, figure, landscape, and abstraction will be engaged. A variety of mediums, techniques and methods will be covered including blending, glazing, and dry brush. There is an additional course fee, commensurate with the materials provided for student production.

Prerequisite(s): Take VA-121

VA-231 SCULPTURE II (3 Credits)
Building on the principles established in VA 131, this course will concentrate on the sculptural method of assemblage, using many different materials. The class will exam the art of professional sculptors working in this method. Students will make presentations on the work of these sculptors as well as creating sculptures inspired by them. There is an additional course fee, commensurate with the materials provided for student production.

Prerequisite(s): Take VA-131

VA-231A SCULPTURE III (3 Credits)

VA-241 CERAMICS II (3 Credits)
This course will introduce students to the process of making ceramics on the potter’s wheel. We will cover the major pottery forms of mug, bowl, plate, vase, pitcher and covered container. Students will continue to learn about decorating, glazing and firing their ceramics.

Prerequisite(s): Take VA-141

VA-301 CONTEMPORARY ISSUES IN ART (3 Credits)
This course will begin with a brief study of the 20th century developments and events which shaped contemporary making of images. The third course of a three-course sequence in survey format, students explore artists’ works and movements, which contribute to Modern and Post-Modern art movements and expressions, from contemporary art through avant-garde art and current art media. The survey will offer research methods through image surveys, lectures, presentations and gallery visits, some student studio practicum will enhance the student’s understanding of contemporary visual arts.

VA-302 WOMEN ARTISTS: THEN & NOW (3 Credits)
This course examines the lives, careers, and achievements of women artists and the related cultural environment from the Middle Ages to contemporary times in Europe and America, the feminist movement beginning in the 1970’s and specifically feminist issues in art that are becoming widespread in the artistic culture. We will consider women’s creative powers as consumers, producers, critics, supporters, objects, and subjects of ‘art’ as expressed in selected examples of studio arts. Specifically, we will be concerned with how women have used art and culture to change their own status and conditions and to remake their worlds.
VA-321 WATERCOLOR & AQUA MEDIA (3 Credits)
This course offers basic introductory explorations in the creativity of water-based media. Studies in black and sepia inks introduce concepts of value and composition. A variety of approaches and subjects will be explored in full color with watercolors and acrylic inks including still life, landscape, figure, and creative abstraction. Students will assemble a large album of their own highest quality pieces. Attentive mastery of basic techniques and the development of a personal creative vision will both be emphasized. Prerequisite: any VA 100-level studio course or portfolio review. There is an additional course fee, commensurate with the materials provided for student production.

VA-341 MODERN ART & THEORY (3 Credits)
Modern art can be confusing precisely because it challenges traditional artistic practices and aesthetic categories. Nevertheless, the immense surge of creative energy unleashed by the innovative techniques and radical aims of the avant-garde are still not exhausted. In this course we examine the development of modern art from its emergence in the 19th century to its dominance in the 20th century. Emphasis will be placed on key artists and movements from the first half of the 20th century responsible for the most distinctive features and claims of the avant-garde. We will also attend to the theoretical implications of these claims for understanding the meaning(s) of artistic modernism.

VA-351 THE FIGURE IN ART (3 Credits)
This course focuses on the figure as a source of inspiration and investigation into the human form. Students will work weekly directly from a live model supplemented through slide lectures and visits to the galleries of The Quick Arts Center. Students will undertake a progressive and integrated study in both wet and dry media that will embrace work with gesture, contour, mass, value, proportion and composition. Paraphrase sketchbook studies after master artists will assist the student in an awareness of major figurative works throughout the history of art. No Prerequisite; but portfolio review by instructor is advised. There is an additional course fee, commensurate with the materials provided for student production.

VA-351H THE FIGURE IN ART-HONORS (3 Credits)
This course focuses on the figure as a source of inspiration and investigation into the human form. Students will work weekly directly from a live model supplemented through slide lectures and visits to the galleries of The Quick Arts Center. Students will undertake a progressive and integrated study in both wet and dry media that will embrace work with gesture, contour, mass, value, proportion and composition. Paraphrase sketchbook studies after master artists will assist the student in an awareness of major figurative works throughout the history of art. No Prerequisite; but portfolio review by instructor is advised. There is an additional course fee, commensurate with the materials provided for student production.

Restrictions: RG.HON

VA-352 IMAGES OF ST. FRANCIS OF ASSISI (3 Credits)
Franciscan iconography is examined within the context of artistic developments over time, and Franciscan documents that address the curious phenomenon surrounding the representational images of Francis of Assisi. Comparisons of diverse images of Francis will be the focus of our inquiry that reveals a visual history often based in Franciscan literature, yet uniquely aligned with the discipline of secular painting of the time. Post-Reformation images of Francis are examined chronologically for content and context as they relate to the continued growth of the Franciscan Order. Iconographical elements of images of Francis that reflect the Franciscan lifestyle are compared and contrasted with images of the secular world of the same time periods, as secular iconography aggressively exerts its influence and tradition upon Franciscan themes and patronage.

VA-361 INDEPENDENT STUDY (3 Credits)
Research in selected topics in art. Designed to allow the student to probe areas of specific interest which lie beyond the coverage normally found in regular course offerings. Faculty approval required.

VA-361A ADV. INDEPENDANT STUDY (3 Credits)

VA-361B IND ST:ART IN MARKETING (3 Credits)
Research in selected topics in art. Designed to allow the student to probe areas of specific interest which lie beyond the coverage normally found in regular course offerings. Faculty approval required.

VA-399 SPECIAL TOPICS IN ART (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399A SP TOP:TRAD OIL PAINT/ST TECH (3 Credits)

VA-399B SP TOP:ASIAN ART & CULTURE (3 Credits)

VA-399C SPECIAL TOPICS IN ART (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399D SP TOP:ARCHAEOLOGY/ANCIENT SPORT (3 Credits)

VA-399E SP TOP:ROMAN ART/ARCHEOLOGY (3 Credits)

VA-399F SP TOP:CLASSICAL MYTH (3 Credits)

VA-399G SP TOP:TOPROMAN ART/ARCHEOLOGY (3 Credits)

VA-399H SP TOP:TOPARCHAEOLOGY/ANCIENT SPORT (3 Credits)

VA-399I SP TOP:TOPROMAN ART/ARCHEOLOGY (3 Credits)

VA-399J SP TOP: JAPANESE WOODBLOCK PRINTS (3 Credits)
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.
This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399L SP TOP: GRAPHIC DESIGN (3 Credits)

This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399M SP TOP: CERAMICS (3 Credits)

This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-399N SP TOP: AGE OF SHAKESPEARE (3 Credits)

This course offers students the opportunity for advanced study in either a discipline currently offered at SBU (e.g. drawing, painting, sculpture, art history, etc.) or in an area not currently covered by existing art courses (e.g., mixed media, performance art, video, etc.) in preparation for graduate studies or the workplace. In the former instance, this course may be taken only after the student has met the core requirements of a particular discipline.

VA-401 ADVANCED SEMINAR (3 Credits)

This course is a seminar for majors in art history that is designed to engage students in the exploration of theoretical questions and critical perspectives that bear on our understanding of visual art and culture. Although the specific approaches used may vary, the basic aim of the Advanced Seminar is to address the issues and assumptions informing contemporary debates regarding the visual image. Topics may include the concept of representation, the notion of style, the relation of form, content, and context, and the role of theory in art.

VA-402 CAPSTONE PROJECT (3 Credits)

This is an independent project in art history designed by the student in conjunction with a faculty mentor who approves and guides it. The capstone project is intended to provide majors the opportunity to develop a topic of special interest within art history during their senior year. In particular, it will enable students to deepen their grasp of the techniques, methods, and materials pertinent to their respective concentrations within the major. The projects may vary widely from researching and writing a thesis to curating a gallery exhibit. The result of the project will be publicly presented and evaluated by a faculty committee. The course is required for the art history major.
ARTH-231 JAPANESE WOODBLOCK PRINTS (3 Credits)
This course will explore the genre of Japanese woodblock prints, known collectively as ukiyoe, which literally means ‘pictures of the floating world’, a reference to the world of pleasures in urban Edo (present day Tokyo) during the Edo period (1603-1868). The development of the ukiyoe prints in the 17th century, the ‘Golden Age’ of the late 18th and early 19th century, and in the decadence period of the 19th century will be traced. Various subjects will be examined such as the courtesans, popular actors, warriors and heroes, ghost stories, court classics, parody, shunga (erotic prints) and landscapes. Lectures will focus on the printing methods, the artistic styles of individual artists and their particular school, the relationships between artists and publishers, patronage, the commercial system of distribution and circulation, and government censorship. The course will demonstrate how Japanese literature, theater, poetry and manga (comics) are relevant to the world of ukiyoe.

ARTH-232 JAPANESE FILM (3 Credits)
This course examines the history and aesthetics of Japanese film, focusing on the ways in which Japanese film responded to, and developed independently of, American cinema. The work of the three greatest Japanese directors—Yasujiro Ozu (1903-1963), Kenji Mizoguchi (1898-1956), and Akira Kurosawa (1910-1998) will be emphasized, focusing on recurring narratives, themes, styles, and aesthetic traditions. The work of some modern and contemporary filmmakers will also be studied, compared, and contrasted to earlier traditions.

ARTH-234 ART OF THE NORTHWEST COAST (3 Credits)
This course is an introductory survey of the arts of the indigenous peoples of the Northwest Coast of North America, primarily of southern Alaska, British Columbia, Canada and the states of Washington and Oregon. The diversity and evolution of the basic art forms found in Northwest Coast art, from prehistoric to contemporary times, will be studied, with a focus on the function and meaning of the art in cultural and ceremonial contexts. The role of native artists of the Northwest Coast in expressing and maintaining a cultural and artistic identity also will be considered.

ARTH-301 GREEK ART AND ARCHAEOLOGY (3 Credits)
The course examines the vase painting, sculpture, architecture, and other archaeological materials from ancient Greece, from the Bronze Age to the end of the Hellenistic Period. Emphasis will be placed upon stylistic analyses. Included are works from Crete, the Cyclades, the Greek mainland, and Greek colonies.

ARTH-302 ROMAN ART AND ARCHAEOLOGY (3 Credits)
The course examines the painting, sculpture, architecture, and other archaeological materials of Italy and the Roman Empire from the time of the Etruscans to Constantine the Great. Emphasis will be placed upon the political and social role of art and architecture in ancient Rome, the dissolution of classical art, and the formation of medieval art.

ARTH-303 MEDIEVAL & BYZANTINE ART & ARCHITECTURE (3 Credits)
The course examines the painting, sculpture, mosaics, illuminated manuscripts, architecture, and other material culture, from the advent of Christian art to the fall of the Byzantine Empire. Particular emphasis will be placed upon the development of regional styles in art, and upon the changing architecture of Christian churches.

ARTH-310 RENAISSANCE & BAROQUE ART (3 Credits)
This course is a study of the history of the development of major and minor arts from the Early Renaissance through the 18th century, exploring the work of individual artists, and observing the changing role of the artist in society. Systems of art patronage will be explored, and the aesthetics of the given period or style will be assessed.

ARTH-311 18TH AND 19TH CENTURY ART (3 Credits)
This course will examine particular art movements from the eighteenth and nineteenth centuries, including Rococo, Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, and Symbolism. Special attention will be paid to observing how, and understanding why, art, in its appearance, patronage, and reception, changed fundamentally in this period.

ARTH-321 AESTHETICS (3 Credits)
Although topics vary, they typically include inquiries into; the concept of beauty, the nature and value of art, the aesthetic experience, and the evaluation and criticism of works of art.

ARTH-322 CONTEMPORARY ISSUES IN ART (3 Credits)
This course examines developments in art, beginning in the 20th century, and exploring the formation of Modern and Post-Modern art movements, including the avant-garde art and current art media.

ARTH-323 WOMEN ARTISTS: THEN & NOW (3 Credits)
This course examines the lives, careers, and achievements of women artists and the related cultural environment from the Middle Ages to contemporary times in Europe and America, the feminist movement beginning in the 1970’s and specifically feminist issues in art that are becoming widespread in the artistic culture. The creative powers of women as consumers, producers, critics, supporters, objects, and subjects of ‘art’ will be considered. To understand the work and the careers of women artists, one must be concerned with the art objects themselves, with the artists’ lives and experiences, and with the social and political conditions in which their art has been produced, consumed, and evaluated.

ARTH-325 RELIGION AND ART (3 Credits)
The arts have been an important channel of religious expression from the ancient cove dwellers to the present. This course examines the role played by the arts in the Christian tradition and the modern secular world. The first part of the course focuses on the varied uses of music, painting, sculpture, etc., in the life and liturgy of the church, including theological interpretations of the role of art in liturgy. The second part examines the spiritual power of contemporary secular forms of art.

ARTH-330 ASIAN ART (3 Credits)
The course surveys the visual arts and architecture of Asia, focusing on India, China, and Japan, from prehistory to the present. Special attention will be given to placing the arts within their historical and cultural context, with particular emphasis on the relation between art and religion such as Hinduism, Buddhism, Daoism, Confucianism and Shintoism. Painting, sculpture, architecture, ritual objects, ceramics and other visual forms will be examined in relation to specific historical stages and political contexts.

ARTH-331 JAPANESE ART AND CULTURE (3 Credits)
This course is a survey of the art and visual culture of Japan, focusing on the development of the pictorial, sculptural, and architectural traditions from prehistory to the present. Topics to be investigated will include Buddhist painting, sculpture, architecture, narrative hand-scrolls, and ink paintings. Also included are the arts related with the Zen sect; the diverse traditions of the Edo period, as well as woodblock prints, ukiyoe, and the development of arts of the Meiji, Taisho and Showa periods.
For the non-major, the following constitutes a minor in art history:

**ARTH-332 NATIVE AMERICAN ART (3 Credits)**
This course is an introductory survey of the history of art and visual culture of the indigenous peoples of North America. This diversity of media, forms, and contexts from prehistory to the present day will be examined. Various art forms will be covered from sculpture, painting, pottery, beadwork, printmaking, glasswork and photography to performance and installation art.

**ARTH-333 INTRO TO ISLAMIC ART & ARCHITECTURE (3 Credits)**
This course is an introduction to the arts and architecture of the Islamic World from the rise of Islam in the seventh century to the twentieth century. We will examine the three principle vehicles for artistic expression in the Islamic world, namely, architecture, the arts of the book (calligraphy, illumination, and bookbinding), and the arts of the object (ceramics, metalwork, glass, woodwork, textiles and ivory).

**ARTH-380 MUSEUM STUDIES: PROSEMINAR (3 Credits)**
The course is an introduction to the modern museum presented in three parts: (1) a general introduction to museums; (2) a practical survey of how museums function (regarding exhibitions; collections; management; museum-law; finance, etc.); and (3) a review of some important topics currently under debate in the museum world and beyond. The course is conceived as a weekly proseminar, with lecturers speaking on a rotating (weekly) basis about their areas of expertise, in accord with the subject matter and assigned readings established on the syllabus.

**ARTH-386 MUSEUM INTERNSHIP EDUCATIONAL (3 Credits)**
The 'Museum Internship: Educational' course is designed as a practicum that focuses on involving the student in museum education programs, including a variety of community outreach initiatives and docentry. The internship requires a commitment of 150 hours per semester of enrollment. Attendance is mandatory. Interns are assigned work in aid of the educational staff of the QCA. The final project includes a portfolio of the intern's work during the semester.

**ARTH-388 MUSEUM INTERNSHIP: CURATORIAL (3 Credits)**
The 'Museum Internship Curatorial' course is designed to include exposure to various aspects of museum work including collections, education/docentry and exhibitions. The internship requires a commitment of 150 hours per semester of enrollment. Attendance is mandatory. Interns are assigned work in aid of the curatorial staff of the QCA. The final project includes a portfolio of the intern's work during the semester.

**ARTH-399 SPECIAL TOPICS IN ART HISTORY (3 Credits)**
This course offers students the opportunity for advanced study in specialized areas or topics not currently covered in the art history curriculum.

**ARTH-399A SPECIAL TOPICS (3 Credits)**
This course offers students the opportunity for advanced study in specialized areas or topics not currently covered in the art history curriculum.

### Art History, Minor

For the non-major, the following constitutes a minor in art history:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARTH-101</td>
<td>SURVEY OF WESTERN ART I</td>
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<tr>
<td>ARTH-102</td>
<td>SURVEY OF WESTERN ART II</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-103</td>
<td>SURVEY OF NON-WESTERN ART</td>
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Select three additional art history courses, two of which must be at the 300 level

| Total Credits | 18 |

A 2.00 GPA is required. These courses may not be taken pass/fail.

### Music, BA

**Audition**

Admission to the B.A. in Music degree program is conditional upon a successful live audition evaluated by members of the music faculty. The audition will consist of a performance of at least 10 minutes' length on the student's major instrument or voice, showing a grasp of a variety of styles. Candidates should contact the Department of Visual and Performing Arts for specific requirements for individual instruments and voice. In lieu of a live audition, a recording may be submitted if the candidate lives more than 150 miles from St. Bonaventure University. Current St. Bonaventure University students who wish to change their major to Music should contact the Department of Visual and Performing Arts for audition procedures.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MU-121</td>
<td>MUSIC THEORY I</td>
<td></td>
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<tr>
<td>MU-122</td>
<td>MUSIC THEORY II</td>
<td></td>
</tr>
<tr>
<td>MU-211</td>
<td>MUSIC HIST I: MUS. BEGINNINGS</td>
<td></td>
</tr>
<tr>
<td>MU-212</td>
<td>MUSIC HISTORY II: THE COMMON PRACTICE PERIOD AND BEYOND</td>
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<tr>
<td>MU-221</td>
<td>COMPOSITION</td>
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<tr>
<td>MU-233</td>
<td>ELEM. CONDUCTING</td>
<td></td>
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<tr>
<td>MU-499</td>
<td>SENIOR MUSIC PROJECT</td>
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9 credits of Music Electives

7 credits from the following courses which may be repeated:

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<tr>
<td>MU-101</td>
<td>CONCERT BAND</td>
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<td>MU-102</td>
<td>CONCERT CHOIR</td>
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<td>MU-103</td>
<td>JAZZ BAND</td>
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<td>MU-104</td>
<td>SMALL ENSEMBLE</td>
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<tr>
<td>MU-105</td>
<td>APPLIED MUSIC</td>
<td></td>
</tr>
</tbody>
</table>

**Foreign Language 202**

General Education Requirements (p. 161)

| Total Credits | 37 |

**General Electives**

| Total Credits | 43 |

**First Year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits Spring</th>
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<tr>
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<td>3 MU-122</td>
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<td>ENG-101</td>
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<td>3 ENG-102</td>
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<tr>
<td>General Education Requirement</td>
<td>3 General Education Requirement</td>
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<tr>
<td>THFS-101</td>
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<td>3 Foreign Language 202</td>
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<tr>
<td>SBU-101</td>
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<td>2 SBU-102</td>
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</tr>
<tr>
<td>MU Ensemble/Applied</td>
<td>1 General Elective</td>
<td>3</td>
<td></td>
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</tbody>
</table>

1 MU-111 does not qualify as a music elective.

2 No more than 12 credits of ensembles may be counted toward degree requirements.
education administration, marketing, advertising, public relations, politics, advanced study and/or careers in law, many areas of education and related media. In addition, the theater major can be applied to liberal arts context.

Undergraduate theater majors have, of course, found success in theater and technical work.

SBU's theater major also offers a strong foundation for graduate study either in the applied context of the M.F.A. in acting, design, directing, dramaturgy, or another area of theater, or the M.A., either for its own sake or as preparation for advanced study leading to the Ph.D.

Although you don't need to audition to major in theater at SBU, theater majors are required to complete a minimum of six credits of SBU Theater production (THTR-299), in a combination of on-stage and design/technical work.

The major in theater wraps up with a semester-long capstone project in theater performance, design, or research (THTR-499) guided by the theater faculty and tailored to the individual student's interests. Recent capstones have included original scripts, directing, acting and designs.

**Music, Minor**

The following courses constitute a minor in music:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MU-121</td>
<td>MUSIC THEORY I</td>
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</tr>
<tr>
<td>MU-212</td>
<td>MUSIC HISTORY II: THE COMMON PRACTICE</td>
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</tbody>
</table>

Select 3 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-101</td>
<td>CONCERT BAND</td>
<td>3</td>
</tr>
<tr>
<td>MU-102</td>
<td>CONCERT CHOIR</td>
<td></td>
</tr>
<tr>
<td>MU-103</td>
<td>JAZZ BAND</td>
<td></td>
</tr>
<tr>
<td>MU-104</td>
<td>SMALL ENSEMBLE</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 credits of approved music electives

| Total Credits | 18 |

**Theater, BA**

Department Chair: Ed Simone, Ph.D.

The bachelor of arts with a major in theater offers a comprehensive undergraduate program in theater production, history, texts, and applied on-stage and technical experience and training within the university's liberal arts context.

Undergraduate theater majors have, of course, found success in theater and related media. In addition, the theater major can be applied to advanced study and/or careers in law, many areas of education and education administration, marketing, advertising, public relations, politics, publishing, broadcast journalism, film and television performance and production, cultural anthropology, history, psychology and various therapies, music management, performance and composition, arts management and administration, visual art, internet media production, design and architecture, the hospitality and gaming industries, and many others.

SBU's theater major also offers a strong foundation for graduate study either in the applied context of the M.F.A. in acting, design, directing, dramaturgy, or another area of theater, or the M.A., either for its own sake or as preparation for advanced study leading to the Ph.D.

Although you don't need to audition to major in theater at SBU, theater majors are required to complete a minimum of six credits of SBU Theater production (THTR-299), in a combination of on-stage and design/technical work.

The major in theater wraps up with a semester-long capstone project in theater performance, design, or research (THTR-499) guided by the theater faculty and tailored to the individual student's interests. Recent capstones have included original scripts, directing, acting and designs.

**Music, Minor**

The following courses constitute a minor in music:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-121</td>
<td>MUSIC THEORY I</td>
<td>3</td>
</tr>
<tr>
<td>MU-212</td>
<td>MUSIC HISTORY II: THE COMMON PRACTICE</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-101</td>
<td>CONCERT BAND</td>
<td>3</td>
</tr>
<tr>
<td>MU-102</td>
<td>CONCERT CHOIR</td>
<td></td>
</tr>
<tr>
<td>MU-103</td>
<td>JAZZ BAND</td>
<td></td>
</tr>
<tr>
<td>MU-104</td>
<td>SMALL ENSEMBLE</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 credits of approved music electives

| Total Credits | 18 |

**Theater, BA**

Department Chair: Ed Simone, Ph.D.

The bachelor of arts with a major in theater offers a comprehensive undergraduate program in theater production, history, texts, and applied on-stage and technical experience and training within the university's liberal arts context.

Undergraduate theater majors have, of course, found success in theater and related media. In addition, the theater major can be applied to advanced study and/or careers in law, many areas of education and education administration, marketing, advertising, public relations, politics, publishing, broadcast journalism, film and television performance and production, cultural anthropology, history, psychology and various therapies, music management, performance and composition, arts management and administration, visual art, internet media production, design and architecture, the hospitality and gaming industries, and many others.

SBU's theater major also offers a strong foundation for graduate study either in the applied context of the M.F.A. in acting, design, directing, dramaturgy, or another area of theater, or the M.A., either for its own sake or as preparation for advanced study leading to the Ph.D.

Although you don't need to audition to major in theater at SBU, theater majors are required to complete a minimum of six credits of SBU Theater production (THTR-299), in a combination of on-stage and design/technical work.

The major in theater wraps up with a semester-long capstone project in theater performance, design, or research (THTR-499) guided by the theater faculty and tailored to the individual student's interests. Recent capstones have included original scripts, directing, acting and designs.
Second Year

<table>
<thead>
<tr>
<th>Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR-212 or 230</td>
<td>3</td>
</tr>
<tr>
<td>THTR-299</td>
<td>1</td>
</tr>
<tr>
<td>THTR-211 or 301</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy Distribution</td>
<td>3</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

Third Year

<table>
<thead>
<tr>
<th>Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR-299</td>
<td>1</td>
</tr>
<tr>
<td>THTR-230 or 212</td>
<td>3</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

Fourth Year

<table>
<thead>
<tr>
<th>Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR-499 (or Theater Elective)</td>
<td>3</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Credits 120

1. The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

The above is only one possible sequence, although THTR-101 should be taken in the first semester and THTR-499 must be taken in the final year. All other theater courses may be taken in any order.

Theater, Minor

The following courses constitute a minor in theater:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR-101</td>
<td>INTRODUCTION TO THEATER</td>
<td>3</td>
</tr>
<tr>
<td>THTR-130</td>
<td>STAGECRAFT &amp; THEATER TECH.</td>
<td>3</td>
</tr>
<tr>
<td>THTR-201</td>
<td>ACTING IN CHARACTER</td>
<td>3</td>
</tr>
<tr>
<td>or THTR-301</td>
<td>ACTING IN ENSEMBLE</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-314</td>
<td>HISTORY OF MUSICAL THEATER</td>
<td></td>
</tr>
<tr>
<td>THTR-299</td>
<td>SBU THEATER PRODUCTION (taken 3 times)</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits of theater electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

Visual Arts and Art History, Minor

The minor in the combined Visual Arts and Art History track requires select courses from both the Visual Arts and Art History minors.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA-111</td>
<td>DRAWING I</td>
<td></td>
</tr>
<tr>
<td>VA-121</td>
<td>PAINTING I</td>
<td></td>
</tr>
</tbody>
</table>

Art History Track

<table>
<thead>
<tr>
<th>Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-101</td>
<td>SURVEY OF WESTERN ART I</td>
</tr>
<tr>
<td>ARTH-102</td>
<td>SURVEY OF WESTERN ART II</td>
</tr>
<tr>
<td>ARTH-322</td>
<td>CONTEMPORARY ISSUES IN ART</td>
</tr>
<tr>
<td>ARTH-323</td>
<td>WOMEN ARTISTS: THEN &amp; NOW</td>
</tr>
</tbody>
</table>

Selective Courses 9

Select three of the following not already taken for your track:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
</tr>
</tbody>
</table>

Note: These courses may not be taken pass/fail. A 2.00 GPA is required.

Visual Arts, BA

The B.A. in Visual Arts includes courses from the University’s core curriculum, courses in drawing, painting, sculpture, and other art electives. A portfolio review is required at the end of the second semester of study. In all, 45 credit hours in the major are required for graduation. Throughout the student’s progress, faculty provide individual attention, mentoring and advisement. A senior thesis/exhibition is the student’s culminating experience and is a requirement for graduation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA-111</td>
<td>DRAWING I</td>
<td></td>
</tr>
<tr>
<td>VA-121</td>
<td>PAINTING I</td>
<td></td>
</tr>
<tr>
<td>VA-131</td>
<td>SCULPTURE I</td>
<td></td>
</tr>
<tr>
<td>VA-161</td>
<td>TWO-DIMENSIONAL DESIGN</td>
<td></td>
</tr>
<tr>
<td>VA-211</td>
<td>DRAWING II</td>
<td></td>
</tr>
<tr>
<td>VA-321</td>
<td>WATERCOLOR &amp; AQUA MEDIA</td>
<td></td>
</tr>
<tr>
<td>VA-351</td>
<td>THE FIGURE IN ART</td>
<td></td>
</tr>
<tr>
<td>ARTH-101</td>
<td>SURVEY OF WESTERN ART I</td>
<td></td>
</tr>
<tr>
<td>ARTH-102</td>
<td>SURVEY OF WESTERN ART II</td>
<td></td>
</tr>
<tr>
<td>ARTH-322</td>
<td>CONTEMPORARY ISSUES IN ART</td>
<td></td>
</tr>
<tr>
<td>ARTH-323</td>
<td>WOMEN ARTISTS: THEN &amp; NOW</td>
<td></td>
</tr>
</tbody>
</table>

Note: These courses may not be taken pass/fail. A 2.00 GPA is required.

Visual Arts

 Nine credits of Visual Arts Electives

Art History

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-101</td>
<td>SURVEY OF WESTERN ART I</td>
<td></td>
</tr>
</tbody>
</table>
The foreign language must be at the level of 202 or higher.

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student’s academic adviser.

Visual Arts, Minor

The following courses constitute a minor in Visual Arts:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA-111</td>
<td>DRAWING I</td>
<td>3</td>
</tr>
<tr>
<td>VA-121</td>
<td>PAINTING I</td>
<td>3</td>
</tr>
<tr>
<td>VA-131</td>
<td>SCULPTURE I</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA-111</td>
<td>DRAWING I</td>
<td>3</td>
</tr>
<tr>
<td>VA-121</td>
<td>PAINTING I</td>
<td>3</td>
</tr>
<tr>
<td>VA-131</td>
<td>SCULPTURE I</td>
<td>3</td>
</tr>
</tbody>
</table>
FRANCISCAN HEALTH CARE PROFESSIONS

Dual-Admission and Early Assurance options

Program Director: Monica Thomas, Ph.D.

Exceptional high school seniors seeking careers in health care can enter St. Bonaventure with a provisional admission and provisional seat at one of eight graduate schools in the health professions: George Washington University School of Medicine, SUNY-Upstate College of Medicine, LECOM College of Medicine, LECOM School of Pharmacy, LECOM School of Dental Medicine, Daemen College Department of Physical Therapy, University at Buffalo School of Pharmacy and Pharmaceutical Sciences, and St. Francis University Department of Physical Therapy. The process begins with an application to St. Bonaventure University in the fall of the senior year of high school.

Students enrolled at St. Bonaventure have the opportunity to apply to some of these programs as Early Assurance applicants through their sophomore year.
MULTIDISCIPLINARY MINORS

• Law and Society, Minor (p. 296)
• Women's Studies, Minor (p. 296)

Law and Society, Minor

The Law and Society minor involves students in the multi-disciplinary study of law and society, focusing on the interaction of law and legal institutions with social, economics, and political systems.

Students will examine the historical, philosophical, sociological, and political foundations of law and the social forces influencing law and society. The Law and Society minor is designed to help students gain an understanding of the role of law in society, approaching questions from a multi-disciplinary perspective.

Requirements

Fulfillment of the minor will require completion of 21 credit hours of course work. Students may count a total of 6 credit hours used for their major toward the requirements for the Law and Society minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS-102</td>
<td>AMERICAN POLITICS</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-312</td>
<td>SYMBOLIC LOGIC</td>
<td>3</td>
</tr>
<tr>
<td>POLS-204</td>
<td>POLITICAL THOUGHT ¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or PHIL-325 PHILOSOPHY OF LAW</td>
<td></td>
</tr>
<tr>
<td>ECO-101</td>
<td>MICROECONOMIC PRINCIPLES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ECO-102 MACROECONOMIC PRINCIPLES</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

¹ Political Science majors must take PHIL-325 and Philosophy majors must take POLS-204. All other majors may choose between POLS-204 and PHIL-325.

Nine credits of approved electives are required for the minor. Please see the Law and Society minor declaration form for specific details. It is available from your academic adviser. Students whose overall GPA is below a 3.0 GPA upon graduation will not receive credit for the minor, i.e., will not have completion of the minor acknowledged on their transcript.

Women's Studies, Minor

For non-majors, the following courses constitute a minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-101</td>
<td>INTRO TO WOMEN’S STUDIES</td>
<td>3</td>
</tr>
<tr>
<td>WS-499</td>
<td>COLLOQUIUM IN WOMEN’S STY</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>
MULDISCIPLINARY PROGRAMS

In the arts and humanities, multidisciplinary programs concern themselves with the human experience. As the name implies, multidisciplinary programs draw courses and faculty expertise from several traditional subject areas, and use this broad based knowledge to investigate the human condition.

In the sciences, the multidisciplinary approach is a result of the natural evolution of the sciences — the closer one looks at systems, the more difficult it becomes to parcel items off to a traditional subject matter.

These programs are excellent preparations for life after college because it is becoming more frequent for individuals to view a problem or issue from the vantage points of several different disciplines.

- Behavioral Neuroscience, BS (p. 297)
- Bioinformatics, BS (p. 298)
- Environmental Studies, BA (p. 299)
- Environmental Studies, Minor (p. 300)
- Health and Society, BA (p. 301)
- Health and Society, BS (p. 302)
- International Studies, BA (p. 303)
- International Studies, Minor (p. 305)
- Professional and Creative Writing, BA (p. 305)
- Women's Studies, BA (p. 306)

Behavioral Neuroscience, BS

Program Director: Althea Kaminske, Ph.D.

The Department of Psychology offers a program leading to the Bachelor of Science with a major in Behavioral Neuroscience. The Behavioral Neuroscience program provides students with a biological understanding of psychological phenomena. Coursework emphasizes an understanding of the nervous system at a cellular level, how the brain integrates information, as well as an understanding of a range of methodologies, animal models systems, experimental designs, and statistical tools used in 21st century behavioral neuroscience. The capstone course integrates the biological and psychological coursework by discussing and analyzing current topics in behavioral neuroscience.

This major will be of interest to students with a strong background in science who are interested in questions surrounding the brain and behavior. This major helps prepare students for graduate studies in healthcare professions, or masters or Ph.D. programs in research fields like neuroscience, neurobiology, biopsychology, or biology.

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td>PSYC-101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIO-105</td>
<td>4</td>
<td>4</td>
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<tr>
<td></td>
<td>ENG-101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SBU-101</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Foreign Language 201</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td>14</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC-201 &amp; PSYL-201</td>
<td>4</td>
<td>PSYC-202 &amp; PSYL-202</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Behavioral Neuroscience Elective</td>
<td>3</td>
<td>Behavioral Neuroscience Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>3</td>
<td>3-4 BIO-350</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>THFS-101</td>
<td>3</td>
<td>General Education Requirement</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>PSYC-343</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral Neuroscience Elective</td>
<td></td>
<td>16-17</td>
<td>16</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirement</td>
<td>6</td>
<td>General Education Requirements</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
<td>General Electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>PSYC-343</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral Neuroscience Elective</td>
<td></td>
<td>BIO-350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Fourth Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNS-401</td>
<td>3</td>
<td>Behavioral Neuroscience Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education Requirements</td>
<td>6</td>
<td>General Electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. When a General Education requirement also fulfills a major requirement, General Elective credits are needed to reach the required 120 credits.
2. This requirement can be fulfilled by MATH-151 or any higher-numbered MATH course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Major Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-105</td>
<td>BIOLOGICAL SCIENCE I</td>
</tr>
<tr>
<td>&amp; BIOL-105</td>
<td>and BIOLOGICAL SCI. I LAB</td>
</tr>
<tr>
<td>BIO-106</td>
<td>BIOLOGICAL SCIENCE II</td>
</tr>
<tr>
<td>&amp; BIOL-106</td>
<td>and BIOLOGICAL SCI. II LAB</td>
</tr>
<tr>
<td>PSYC-101</td>
<td>INTRO TO PSYCHOLOGY</td>
</tr>
<tr>
<td>PSYC-102</td>
<td>AN INTRO TO BIOPSYCHOLOGY</td>
</tr>
<tr>
<td>PSYC-201 &amp; PSYL-201</td>
<td>PSYC RESEARCH: METHODS &amp; STATISTICS I &amp; II</td>
</tr>
<tr>
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<tr>
<td>BNS-401</td>
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</tr>
<tr>
<td>One Cellular Mechanisms elective</td>
<td></td>
</tr>
<tr>
<td>One Evolutionary Developmental Biology elective</td>
<td></td>
</tr>
<tr>
<td>One Behavior and Mental Processes elective</td>
<td></td>
</tr>
<tr>
<td>Three additional major electives</td>
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<tr>
<td>Quantitative reasoning course</td>
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<tr>
<td>General Education Requirements (p. 161)</td>
<td>37</td>
</tr>
<tr>
<td>General Electives</td>
<td>28-29</td>
</tr>
<tr>
<td>Total Credits</td>
<td>120-122</td>
</tr>
</tbody>
</table>
1 Chosen from among courses in the Cellular Mechanisms, Evolutionary Developmental Biology, and Behavior and Mental Processes elective areas. To ensure breadth of experience, no more than two of these three electives may be taken in any one area.

2 This requirement can be fulfilled by MATH-151 or any higher-numbered MATH course.

3 The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

The electives in the Behavioral Neuroscience major are grouped in the following three areas. Students must take at least one and no more than three total courses in each elective area.

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<th>Credits</th>
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<td>BIO-362</td>
<td>ANIMAL DEVELOPMENT</td>
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<td>BIO-390</td>
<td>EVOLUTION</td>
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<td>PSYC-215</td>
<td>MALADAPTIVE BEHAVIOR</td>
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<td>HUMAN SEXUALITY</td>
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<td>PSYC-330</td>
<td>HEALTH PSYCHOLOGY</td>
<td>3</td>
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<td>PSYC-421</td>
<td>SENSATION &amp; PERCEPTION</td>
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<td>PSYC-423</td>
<td>HUMAN MEMORY</td>
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With approval of the director of the Behavioral Neuroscience program, students may fulfill one elective in the major with a mentored research project for which they receive PSYC-48X or BIO-318 BIO-319 BIO-418 or BIO-419 credit totaling at least three credit hours. The focus of this research project must be relevant to the field of Behavioral Neuroscience.

New courses relevant to Behavioral Neuroscience may be offered from time to time, often as Special Topics courses in Psychology or Biology. Such courses may fulfill Behavioral Neuroscience elective requirements with the approval of the Director of the Behavioral Neuroscience Program and relevant academic administrators.

Students working towards a major in Behavioral Neuroscience are strongly encouraged to take at least one semester of general chemistry with laboratory (CHEM-101 CHML-101 and/or CHEM-102 CHML-102.)

**Bioinformatics, BS**

**Program Director: Joel Benington, Ph.D.**

The program in Bioinformatics provides students with the interdisciplinary scientific and mathematical background needed for graduate study in this growing field at the interface of biology, mathematics, and computer science. The core requirements furnish background in each of these areas while later flexibility in the program will allow the student to emphasize one or the other of these subject areas. The major is appropriate to students interested in a research career in bioinformatics, as well as students preparing for careers in medicine and pharmacology, since these fields are increasingly informed by bioinformatics.

<table>
<thead>
<tr>
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<td>&amp; CHML-102</td>
<td>and GEN CHEM II LAB</td>
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<td>CHEM-301</td>
<td>ORGANIC CHEMISTRY I</td>
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<td>GENERAL PHYSICS I</td>
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<td>and GENERAL PHYSICS I LAB</td>
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<td>and GENERAL PHYSICS II LAB</td>
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<td>MATH-152</td>
<td>CALCULUS II</td>
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<td>MATH-322</td>
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<td>MATH-323</td>
<td>MATHEMATICAL STATISTICS</td>
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<td>BIF Electives ¹</td>
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<td>37</td>
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</tbody>
</table>

Total Credits 120-122


² The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Outlined below are two suggested yearly plans of study: one for students who want a Bioinformatics degree with an emphasis in biology, and one for those seeking a degree with an emphasis in math and computer science.
### Environmental Studies, BA

**Program Director:** Professor Kevin Vogel

**Committee**
- P. Brawdy, Ph.D.
- J. Lambert, Ph.D.
- D. Levine, Ph.D.
- J. Mahar, Ph.D.
- L. Matz, Ph.D.
- D. Mayeaux, Ph.D.
- J. Pientka, Ph.D.
- D. Wilkins, Ph.D.
- R. Woodruff, Ph.D.
- K. Zawicki, Ph.D.

Environmental Studies is an interdisciplinary, academic field, and also a field of practical endeavor. Both fields address key interrelated social, scientific, political and ethical issues. Environmental Studies educate students in the reciprocal interactions between humans, nature, and the built environment. The major encompasses and integrates study in three core areas: basic principles of ecology and environmental sciences; environmental ethics and aesthetics; and environmental social science and policy. As part of the degree requirements, students choose a concentration in one of these three areas.

**Suggested Plan of Studies for Bioinformatics Majors with a Biology Emphasis**

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<td>ENG-101</td>
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<td>CHEM-101</td>
<td>4 CS-132</td>
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<tr>
<td>CHML-101</td>
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<tr>
<td>CS-131</td>
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<td>3 MATH-152</td>
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<td>ENG-102</td>
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Total Credits 124

When a General Education requirement also fulfills a major requirement, General Elective credits are needed to reach the required 120 credits.

**Suggested Plan of Studies for Bioinformatics Majors with a Math/Computer Science Emphasis**

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<td>4 CS-132</td>
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</tr>
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<td>CHML-101</td>
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</tr>
<tr>
<td>CS-131</td>
<td>4 Foreign Language 202</td>
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<td>BIO-105</td>
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</tbody>
</table>

Total Credits 120

When a General Education requirement also fulfills a major requirement, General Elective credits are needed to reach the required 120 credits.
Environmental Studies, Minor

The minor in Environmental Studies is designed to allow students from a wide range of academic programs to view their major from a perspective of environmental sustainability and add a component of environmental expertise to their final degree.

Fulfillment of the minor will require a minimum of 18 credits (up to 21 if three laboratory courses are taken in the area of concentration).

Concentrations
Select three approved courses in one of the following areas:

Ethics and Aesthetics Concentration

Note that all three concentration courses may be taken for credit in the students' major as well.
ENV-242EA  IND ST: FRANCISCAN CARE FOR CREATION  (Student Designed Course)  

Natural Science Concentration

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<td>ECOLOGY</td>
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<td>PSYC-382</td>
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Social Science and Policy Concentration

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<td>ENV-310</td>
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<td>ENVIRONMENTAL LAW &amp; POLICY Sustainability Studies</td>
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<td>POLS-315</td>
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<td>ENV-242SP</td>
<td>IND STUDY (Student Designed Course)</td>
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</table>

Health and Society, BA

Program Director: Joel Benington, Ph.D.

The Health and Society majors combine coursework in Biology, Psychology, Sociology, and other disciplines, to give students an interdisciplinary perspective on human health, and the social and psychological ramifications of wellness, disease, and health care. Students completing a Health and Society major explore topics relating to healthcare from the perspective of the human body, the human mind, and human society. The division of electives into three areas ensures that students will have exposure to all three areas.

Health and Society majors who are interested in becoming physicians, and who are not already enrolled in a B.S./M.D. or B.S./D.O. degree program through the Franciscan Health Care Professions program, must apply to and be accepted by a medical school in the traditional manner. If you have questions about this, be sure to speak with the Director of the Health and Society Program, with your advisor, or with one of the university’s PreProfessional Advisors.

Requirements for B.A. in Health and Society

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>PSYC-102</td>
<td>AN INTRO TO BIOPSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>HSOC-401</td>
<td>HEALTH &amp; SOCIETY SEMINAR</td>
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Statistics  

Select two of the following Body Electives: 6-8

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<tbody>
<tr>
<td>BIO-291</td>
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<td>BIO-292</td>
<td>CELL BIOLOGY</td>
<td>1</td>
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<td>BIO-321</td>
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<tr>
<td>BIO-350</td>
<td>NEUROBIOLOGY</td>
<td>1</td>
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<tr>
<td>&amp; BIOL-350 &amp; NEUROBIOLOGY LAB</td>
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</tr>
<tr>
<td>BIO-371</td>
<td>BIOCHEMISTRY</td>
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<td></td>
</tr>
<tr>
<td>BIO-472</td>
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<tr>
<td>&amp; BIOL-472 &amp; IMMUNOLOGY LAB</td>
<td></td>
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<tr>
<td>HS-309</td>
<td>NUTRITION</td>
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<tr>
<td>PHED-312</td>
<td>BIO-KINESIOLOGY</td>
<td>1</td>
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<tr>
<td>HS-314</td>
<td>EXERCISE PHYSIOLOGY</td>
<td>2</td>
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<tr>
<td>PSYC-343</td>
<td>PHYSIOLOGICAL PSYCHOLOGY</td>
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Select two of the following Mind Electives: 6

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<tr>
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<tbody>
<tr>
<td>PSYC-215</td>
<td>MALADAPTIVE BEHAVIOR</td>
<td></td>
</tr>
<tr>
<td>PSYC-224</td>
<td>PSYCHOLOGY OF ADOLESCENCE</td>
<td></td>
</tr>
<tr>
<td>PSYC-225</td>
<td>ADULT DEVELOP &amp; AGING</td>
<td></td>
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<tr>
<td>PSYC-232</td>
<td>PSYCHOLOGICAL WELL-BEING</td>
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<tr>
<td>PSYC-312</td>
<td>CHILD DEVELOPMENT</td>
<td></td>
</tr>
<tr>
<td>PSYC-316</td>
<td>HUMAN SEXUALITY</td>
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</tr>
<tr>
<td>PSYC-330</td>
<td>HEALTH PSYCHOLOGY</td>
<td></td>
</tr>
<tr>
<td>PSYC-422</td>
<td>COGNITION</td>
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<tr>
<td>PSYC-469</td>
<td>INTR CLNIC/METH-HUM.SERV</td>
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<tr>
<td>EDUC-210</td>
<td>HUMAN DEVELOPMENT &amp; LEARNING</td>
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<tr>
<td>EDUC-250</td>
<td>ADOLESCENT DEVELOPMENT &amp; LEARNING</td>
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Select four of the following Society Electives: 3 12

<table>
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<tr>
<td>ECO-498C</td>
<td>SPECIAL TOPICS:ECONOMICS OF HEALTH CARE</td>
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<tr>
<td>PHIL-335</td>
<td>PHIL. OF SCIENCE &amp; MEDICINE</td>
<td></td>
</tr>
<tr>
<td>PHIL-338</td>
<td>HEALTH CARE ETHICS</td>
<td></td>
</tr>
<tr>
<td>PHIL-345</td>
<td>VALUES AT THE END OF LIFE</td>
<td></td>
</tr>
<tr>
<td>POLS-351</td>
<td>POLITICS OF SOCIAL POLICY</td>
<td></td>
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<tr>
<td>SOC-205</td>
<td>SOCIOLOGY OF INEQUALITY</td>
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</tr>
<tr>
<td>SOC-320</td>
<td>SOCIAL PSYCH.OF ADDICTIONS</td>
<td></td>
</tr>
<tr>
<td>SOC-402</td>
<td>FAMILY VIOLENCE</td>
<td></td>
</tr>
<tr>
<td>SOC-408</td>
<td>HEALTH AND ILLNESS</td>
<td></td>
</tr>
<tr>
<td>THEO-348</td>
<td>HEALTH CARE ETHICS: FAITH&amp;HUMAN LIFE</td>
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Foreign Language Requirement 5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3</td>
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</table>

General Education Requirements (p. 161) 37

General Electives, enough to reach 120 credits minimum 21-32

Total Credits 113-131

1 The prerequisite for this course is BIO-105/BIOL-105 & BIO-106/BIOL-106.
This course has one or more prerequisites that are not required courses in the Health and Society major. Students who want to take this course for their Health and Society major will first have to take the prerequisites course(s).

At least one course must be taken in at least two different departments.

This requirement can be fulfilled with MATH-107, MATH-117, QMX-211, or PSYC-201 and PSYC-202.

The foreign language must be at the level of 202 or higher.

The electives in the Health and Society major are grouped in three areas: Body, Mind, and Society. Students are required to take a minimum number of electives in each area, to ensure that they have an interdisciplinary background in ideas and issues relating to health care in modern society.

New courses relevant to health and society may be offered from time to time, often as Special Topics courses in different departments. The division of electives into three areas ensures that students will have exposure to all three areas.

Health and Society majors who are interested in becoming physicians, and who are not already enrolled in a B.S./M.D. or B.S./D.O. degree program through the Franciscan Health Care Professions program, must apply to and be accepted by a medical school in the traditional manner.

If you have questions about this, be sure to speak with the Director of the Health and Society Program, your advisor, or with one of the university’s Pre-Professional Advisors.

The Health and Society majors combine coursework in Biology, Psychology, Sociology, and other disciplines, to give students an interdisciplinary perspective on human health, and the social and psychological ramifications of wellness, disease, and health care. Students completing a Health and Society major explore topics relating to healthcare from the perspective of the human body, the human mind, and human society. The division of electives into three areas ensures that students will have exposure to all three areas.

### Foundation Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO-105</td>
<td>BIOLOGICAL SCIENCE I</td>
<td>4</td>
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<tr>
<td>&amp; BIOL-105</td>
<td>and BIOLOGICAL SCI. I LAB</td>
<td>3</td>
</tr>
<tr>
<td>BIO-106</td>
<td>BIOLOGICAL SCIENCE II</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIOL-106</td>
<td>and BIOLOGICAL SCI. II LAB</td>
<td>3</td>
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<tr>
<td>BIO-331</td>
<td>PHYSICAL &amp; ANAT OF HUMAN I</td>
<td>2</td>
</tr>
<tr>
<td>&amp; BIOL-331</td>
<td>and PHYSIO &amp; ANAT HUMAN I LAB</td>
<td>3</td>
</tr>
<tr>
<td>BIO-332</td>
<td>PHYSICAL &amp; ANAT OF HUMAN II</td>
<td>2</td>
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<tr>
<td>&amp; BIOL-332</td>
<td>and PHYSIO/ANAT OF HUMAN LAB II</td>
<td>3</td>
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<tr>
<td>CHEM-101</td>
<td>GENERAL CHEMISTRY I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHML-101</td>
<td>and GEN CHEM I LAB</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-102</td>
<td>GENERAL CHEMISTRY II</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHML-102</td>
<td>and GEN CHEM II LAB</td>
<td>3</td>
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<tr>
<td>CHEM-301</td>
<td>ORGANIC CHEMISTRY I</td>
<td>4</td>
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<tr>
<td>&amp; CHML-301</td>
<td>and ORGANIC CHEM I LAB</td>
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<tr>
<td>PSYC-101</td>
<td>AN INTRO TO PSYCHOLOGY</td>
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<tr>
<td>PSYC-102</td>
<td>AN INTRO TO BIOSCOPHILY</td>
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### Statistics

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<tr>
<td>QMX-211</td>
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### Health & Society Seminar

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HSOC-401</td>
<td>HEALTH &amp; SOCIETY SEMINAR</td>
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### Select two of the following Body Electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-291</td>
<td>GENETICS</td>
<td>3</td>
</tr>
<tr>
<td>BIO-292</td>
<td>CELL BIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>BIO-321</td>
<td>GEN. MICROBIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>BIO-350</td>
<td>NEUROBIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL-350</td>
<td>and NEUROBIOLOGY LAB</td>
<td>3</td>
</tr>
<tr>
<td>BIO-371</td>
<td>BIOCHEMISTRY</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL-371</td>
<td>and BIOCHEMISTRY LAB</td>
<td>3</td>
</tr>
<tr>
<td>BIO-472</td>
<td>IMMUNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL-472</td>
<td>and IMMUNOLOGY LAB</td>
<td>3</td>
</tr>
<tr>
<td>HS-309</td>
<td>NUTRITION</td>
<td>3</td>
</tr>
<tr>
<td>PHED-312</td>
<td>BIO-KINESIOLOGY</td>
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<td>HS-314</td>
<td>EXERCISE PHYSIOLOGY</td>
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<tr>
<td>PSYC-343</td>
<td>PHYSIOLOGICAL PSYCHOLOGY</td>
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### Select two of the following Mind Electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC-215</td>
<td>MALADAPTIVE BEHAVIOR</td>
<td>3</td>
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<tr>
<td>PSYC-224</td>
<td>PSYCHOLOGY OF ADOLESCENCE</td>
<td>3</td>
</tr>
<tr>
<td>PSYC-225</td>
<td>ADULT DEVELOP &amp; AGING</td>
<td>3</td>
</tr>
<tr>
<td>PSYC-232</td>
<td>PSYCHOLOGICAL WELL-BEING</td>
<td>3</td>
</tr>
<tr>
<td>PSYC-312</td>
<td>CHILD DEVELOPMENT</td>
<td>3</td>
</tr>
</tbody>
</table>
Medical school should work with their academic advisor to make sure academic advisors in selecting Health and Society electives. Students interested in medical school should also work with their courses will fulfill the prerequisite requirements of most medical schools.

The pre-medical track is specifically designed for students interested in medicine. Students interested in medical school should work with their academic advisor in selecting Health and Society electives.

Pre-Medical Track In the B.S. Health and Society major

The pre-medical track is specifically designed for students interested in applying to M.D. or D.O. medical programs. To complete this track, students must also take the following courses: CHML-302, PHYS-103/PHYL-103, PHYS-104/PHYL-104. Together with the courses required for completion of the B.S. in Health and Society, these additional courses will fulfill the requisite requirements of most medical schools. Students interested in medical school should also work with their academic advisors in selecting Health and Society electives.

Students interested in health professions graduate programs other than medical school should work with their academic advisor to make sure they have completed the prerequisite courses required for their graduate program of interest. This may include courses not required for the Health and Society major itself.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Spring</th>
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<tr>
<td>BIO-105</td>
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<tr>
<td>&amp; BIOL-105</td>
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<tr>
<td>ENG-101</td>
<td>3</td>
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<tr>
<td>SBU-101</td>
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<tr>
<td>PSYC-101</td>
<td>3 Foreign Language (202 level)</td>
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<tr>
<td>General Education Requirement</td>
<td>3 MATH-107 or 117</td>
<td>1</td>
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<td>SBU-102</td>
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First Year

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<tr>
<td>CHEM-101 &amp; CHML-301</td>
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<td>General Education Requirement</td>
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Second Year

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Third Year

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<tr>
<td>General Education Requirement</td>
<td>3 General Education Requirement</td>
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<tr>
<td>General Elective</td>
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Fourth Year

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<td>3 HSOC-401</td>
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<tr>
<td>General Elective</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Total Credits</td>
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International Studies, BA

Program Director: Ibrahim Zabad, Ph.D.

Committee

Michael. Calabria, Ph.D.
Christopher Dalton, Ph.D.
Benjamin Gross, Ph.D.
Fr. Kyle Haden, Ph.D.
Guy Imhoff, Ph.D.
Mary Rose Kubal, Ph.D.
Ibrahim Zabad, Ph.D.

International Studies is an interdisciplinary program that addresses the principal issues confronting today's globalizing world, drawing ideas, faculty and courses from a wide range of disciplines. Majors choose a primary and secondary concentration that will allow them to become familiar with global issues and problems related to culture and the arts, politics and society, international relations, and global political economy. To further this knowledge and help develop language skills, students will...
be encouraged to study and/or engage in service abroad. International Studies prepares students for careers in international organizations, internationally focused government and news agencies, non-profits, schools and businesses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>IS-101</td>
<td>INTRO TO INTERNATIONAL STUDIES</td>
<td>3</td>
</tr>
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<td>IS-201</td>
<td>INTERNATIONAL STUDIES &amp; GLOBALIZATION</td>
<td>3</td>
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<td>IS-202</td>
<td>WORLD REGIONAL GEOGRAPHY</td>
<td>3</td>
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<td>IS-300</td>
<td>QUALITATIVE METHODS FOR A GLOBALIZING WORLD</td>
<td>3</td>
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<td>IS-350</td>
<td>WORLD CINEMA</td>
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<td>IS-491</td>
<td>Senior Thesis</td>
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**Primary Concentration**  
12 credits

**Secondary Concentration**  
9 credits

**Language Requirement**  
1 credit

**General Education Requirements**  
37 credits

**General Electives**  
41 credits

**Total Credits**  
120 credits

1 The foreign language must be taken at the 202 level or higher.

### International Studies Concentration Requirements

1. Students will choose a primary concentration from the following list that will include the required "core" course (3 credits) and three elective courses (9 credits) chosen from the list. The courses must come from at least two different disciplines.

2. Students will choose a secondary concentration from the following list that will include the required "core" course (3 credits) and two elective courses (6 credits) chosen from the list. The courses must come from at least two different disciplines.

### Global Culture and the Arts

<table>
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<tr>
<td>ML-300</td>
<td>INTRO INTERCULTURAL COMMUNICATION</td>
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**Elective Courses**  
6-9 credits

### Global Politics and Society

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>POLS-203</td>
<td>COMP. POLITICAL SYSTEMS</td>
<td>3</td>
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</table>

**Elective Courses**  
6-9 credits

1 See course descriptions in back of catalog for prerequisites.
### Global Political Economy

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>Core Course</td>
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<tr>
<td>POLS-330</td>
<td>INT’L POLITICAL ECONOMY</td>
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<tr>
<td>Elective Courses</td>
<td></td>
<td>6-9</td>
</tr>
<tr>
<td>BLX-402</td>
<td>LEGAL ENVIRONMENT OF INTL BUS</td>
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<tr>
<td>ECO-101</td>
<td>MICROECONOMIC PRINCIPLES</td>
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<tr>
<td>ECO-102</td>
<td>MACROECONOMIC PRINCIPLES</td>
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<tr>
<td>MGT-405</td>
<td>INTERNATIONAL MARKETING 1</td>
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<td>PHIL-331</td>
<td>PHILOSOPHY OF ECONOMICS</td>
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<td>POLS-435</td>
<td>POLITICS OF DEV. AREAS</td>
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<tr>
<td>SC-302</td>
<td>GLOBAL MARKETING &amp; COMMUNICATION 1</td>
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Total Credits 9-12

1 See course descriptions in back of catalog for prerequisites.

### International Peace and Security

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Core Course</td>
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<tr>
<td>POLS-103</td>
<td>INTERNATIONAL RELATIONS</td>
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<tr>
<td>Elective Courses</td>
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<td>6-9</td>
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<tr>
<td>HIST-475</td>
<td>WORLD WAR II</td>
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<td>NV-101</td>
<td>INTRO NONVIOLENCE/CONFLICT RES</td>
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<tr>
<td>NV-102</td>
<td>VIOLENCE:CAUSES/EFFECTS</td>
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<tr>
<td>NV-301</td>
<td>PHILOSOPHY OF NONVIOLENCE</td>
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<tr>
<td>NV-303</td>
<td>JUSTICE &amp; PEACE IN THE FRANCISCAN TRAD</td>
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<td>NV-358</td>
<td>THE PHILOSOPHY OF GANDHI</td>
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<td>POLS-104</td>
<td>MODEL UNITED NATIONS</td>
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<tr>
<td>POLS-320</td>
<td>AMERICAN FOREIGN POLICY</td>
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<td>POLS-398</td>
<td>TERRORISM &amp; POLITICAL VIOLENCE</td>
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<td>POLS-399</td>
<td>INTERNATIONAL SECURITY</td>
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<tr>
<td>PSYC-370</td>
<td>PSYCHOLOGY OF TERRORISM 1</td>
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<tr>
<td>THEO-327</td>
<td>RELIGION AND TERRORISM</td>
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Total Credits 9-12

### Media, Globalization, and Social Change

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>Core Course</td>
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<tr>
<td>IS-222</td>
<td>MEDIA &amp; SOCIAL CHANGE</td>
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<td>Elective Courses</td>
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<tr>
<td>JMC-101</td>
<td>COMMUNICATION TODAY</td>
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<tr>
<td>JMC-140</td>
<td>THE DIGITAL WORLD</td>
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<td>JMC-319</td>
<td>WRITING SPACES AND PLACES</td>
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<td>JMC-375</td>
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<td>POLS-395</td>
<td>MEDIA AND POLITICS</td>
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<tr>
<td>SC-210</td>
<td>SOCIAL MEDIA IN SOCIETY/BUSINESS</td>
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</tr>
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<td>SOC-321</td>
<td>SOCIAL MEDIA &amp; SOCIETY</td>
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<tr>
<td>SOC-323</td>
<td>MEDIA &amp; PUBLIC OPINION</td>
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</table>

Total Credits 9-12

### International Studies, Minor

For non-majors, the following 21 credits constitute a minor in International Studies:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IS-101</td>
<td>INTRO TO INTERNATIONAL STUDIES</td>
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<tr>
<td>IS-201</td>
<td>INTERNATIONAL STUDIES &amp; GLOBALIZATION</td>
<td>3</td>
</tr>
<tr>
<td>IS-350</td>
<td>WORLD CINEMA</td>
<td>3</td>
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</tbody>
</table>

Select one 12-credit concentration chosen from the list of major concentrations

Total Credits 21
Lauren Matz, Ph.D.
Sara Nicholson, Ph.D.
Jeremy Smyczek, Ph.D.
Sara Sullivan, Ph.D.
Megan Walsh, Ph.D.

The major in Professional and Creative Writing provides students a broad foundation not only in the practices of writing in the modern world, but also in a critical approach to those practices. It offers students a focused and intensive education both in creative and professional writing pointed toward the twin aims of perfecting craft and understanding both the publication process and the process of joining and sustaining creative communities. Finally, the major will train students in the professional expectations of writing practices in a variety of media, always drawing on the creative impulses that have led students to the writing major in the first place. The result is an academic degree that has sharpened students’ creative and professional writing abilities, giving them a sense of direction and purpose.

<table>
<thead>
<tr>
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<th>Title</th>
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<tr>
<td>JMC-110</td>
<td>PROFESSIONAL WRITING I: STYLE</td>
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<tr>
<td>JMC-111</td>
<td>PROFESSIONAL WRITING II: CRAFT</td>
<td>3</td>
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<tr>
<td>SC-220</td>
<td>DIGITAL CONTENT &amp; ENVIRONMENT</td>
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<tr>
<td>ENG-325</td>
<td>WRITING IN DIGITAL ENVIRONMENTS</td>
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The major area content requirements

Select one of the following Theory/Criticism courses:  3

<table>
<thead>
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<th>Title</th>
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<tr>
<td>ENG-275</td>
<td>RHETORICAL CRITICISM &amp; THEORY</td>
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<tr>
<td>ENG-326</td>
<td>DIGITAL RHETORIC</td>
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<tr>
<td>ENG-390</td>
<td>LITERARY THEORY</td>
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<td>ENG-391</td>
<td>LITERARY CRITICISM</td>
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Select one of the following Professional Writing courses:  3

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<thead>
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<tr>
<td>ENG-250</td>
<td>ADV ORAL &amp; WRITTEN COMM.</td>
<td>3</td>
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<tr>
<td>SC-301</td>
<td>STRATEGIC WRITING &amp; PROFESSIONAL COMM</td>
<td>3</td>
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<tr>
<td>ENG-260</td>
<td>Professional Communication</td>
<td>3</td>
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<tr>
<td>JMC-315</td>
<td>PERSUASIVE WRITING/ RHETORIC</td>
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Select two of the following Creative Writing courses:  6

<table>
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<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENG-270</td>
<td>CREATIVE WRITING NARRATIVE</td>
<td>3</td>
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<tr>
<td>ENG-271</td>
<td>CREATIVE WRITING: POETRY</td>
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</tr>
<tr>
<td>ENG-272</td>
<td>CREATIVE WRITING: DRAMA</td>
<td>3</td>
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<tr>
<td>JMC-318</td>
<td>CREATIVE NONFICTION</td>
<td>3</td>
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Select one of the following Creative Writing courses:  3

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG-350</td>
<td>CREATIVE WRT: NARRATIVE II</td>
<td>3</td>
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<tr>
<td>ENG-351</td>
<td>CREATIVE WRITING: POETRY II</td>
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<tr>
<td>JMC-418</td>
<td>CREATIVE NONFICTION II</td>
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Select two ENG electives  6

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<tr>
<th>Code</th>
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<tr>
<td>ENG-498</td>
<td>SENIOR WRITING WORKSHOP</td>
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</table>

Modern Language  3-12

General Education Requirements (p. 161)  37

General Electives  35-44

Total Credits  120

MATH-107 is recommended to fulfill the General Education Quantitative Literacy Distribution

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
<th>Fall</th>
<th>Credits</th>
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<tr>
<td>ENG-101</td>
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Second Year

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<tr>
<th>Credits</th>
<th>Spring</th>
<th>Fall</th>
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<tbody>
<tr>
<td>Creative Writing Elective</td>
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<td>Creative Writing Elective</td>
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<tr>
<td>SC-220</td>
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<td>Foreign Language 202</td>
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<tr>
<td>Foreign Language 201/General Elective</td>
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<tr>
<td>English Elective</td>
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<td>General Elective</td>
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Third Year

<table>
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<tr>
<th>Credits</th>
<th>Spring</th>
<th>Fall</th>
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<tbody>
<tr>
<td>Creative Writing Elective</td>
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<td>Creative Writing Elective</td>
</tr>
<tr>
<td>Theory/Criticism Elective</td>
<td>3</td>
<td>Professional Writing Elective</td>
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<tr>
<td>English Elective</td>
<td>3</td>
<td>General Education Requirement</td>
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Fourth Year

<table>
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<td>ENG-498</td>
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<td>General Education Requirements</td>
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<td></td>
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</table>

Total Credits 120

Women's Studies, BA

Director: Lauren Matz, Ph.D.

Faculty

Fr. Michael Calabria, O.F.M, Ph.D
A. Cellini, Ph.D.
M. Kubal, Ph.D.
L. Matz, Ph.D.
C. Stanley, Ph.D.
D. Tate, Ph.D.
K. Zawicki, Ph.D.

The Women's Studies major is a comprehensive program incorporating disciplines and registered programs from all the schools at St. Bonaventure University. The curriculum instructs women and men in a life of courage, of learning supported by the development of critical minds and a disposition to serve the larger community. To achieve this, the program offers specialized courses in content and theory, and promotes projects designed to integrate the insights of women's and feminist scholarship into the general curriculum. Fundamentally, we hope to continue to guide our students toward seeing the world through the prism of gendered

1 The modern language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language that will count as general electives.
2 Must take enough credits to reach 120.
Course work leading up to the Senior Seminar (WS-499) will concentrate on the following three goals:

- The study of women’s issues
- The promotion of interdisciplinary research and critical thinking
- Questioning the exclusionary functions of existing knowledge

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WS-101</td>
<td>INTRO TO WOMEN’S STUDIES</td>
<td>3</td>
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<td>WS-208</td>
<td>HIST OF AMERICAN WOMEN</td>
<td>3</td>
</tr>
<tr>
<td>WS-375</td>
<td>WOMEN &amp; POLITICS</td>
<td>3</td>
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<tr>
<td>WS-499</td>
<td>COLLOQUIUM IN WOMEN’S STY</td>
<td>3</td>
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Select one of the following:

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<tr>
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<tbody>
<tr>
<td>WS-323</td>
<td>WOMEN ARTISTS: THEN &amp; NOW</td>
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<td>WS-325</td>
<td>HISPANIC WOMEN WRITERS</td>
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<td>WS-377</td>
<td>WOMEN IN LITERATURE</td>
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WS Electives: 21

Foreign Language: 3

General Education Requirements (p. 161): 37

General Electives: 44

Total Credits: 120

The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

Comprehensive Note

Every student may fulfill this requirement by taking WS-401: Colloquium in Women’s Studies. This is an advanced seminar designed to explore contemporary issues in Women’s Studies through discussions of relevant books, articles, films, other materials and completion of a research project.

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>WS Elective</td>
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<td>ENG-101</td>
<td>3</td>
<td>ENG-102</td>
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<td>Language 101/General Elective</td>
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<td>Language 102/General Elective</td>
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<td>SBU-102</td>
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<td>THFS-101</td>
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Total Credits: 14

Second Year

<table>
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<th>Spring</th>
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<tr>
<td>PHIL-104</td>
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<td>Social Sciences Distribution</td>
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<td>WS Elective</td>
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<td>Language 201/General Elective</td>
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<td>Language 202</td>
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<td>Literature &amp; the VPA Distribution</td>
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Total Credits: 15

Third Year

<table>
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<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Natural Science w/Lab Distribution</td>
<td>4</td>
<td>Franciscan Studies/Theology Distribution</td>
<td>3</td>
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<tr>
<td>WS Electives</td>
<td>6</td>
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<tr>
<td>Historical Studies Distribution</td>
<td>3</td>
<td>Quantitative Literacy Distribution</td>
<td>3</td>
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<tr>
<td>General Elective</td>
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Total Credits: 16
PREPARATION FOR THE PROFESSIONS

St. Bonaventure University recognizes the needs for entrance into certain professional fields and permits the student's preparation to meet these needs. These fields may include:

- Applied Psychology
- Business Administration
- Dentistry
- Engineering
- Law
- Medicine
- Osteopathy
- Pharmacy
- Veterinary Medicine

Upon selecting a course of study, the student, in consultation with an adviser, should determine the specific requirements of the graduate or professional school the student plans to attend in order to assure proper preparation for admission to the elected school. The student is advised to elect a desired major, while assuring that the specific requirements of the graduate or professional school are met.
THE CENTER FOR NONVIOLENCE

Director: Barry L. Gan, Ph.D.

The Center for Nonviolence offers a unique academic program that emphasizes nonviolence as both a technique and a way of life. The core of the program is an education in the philosophy of nonviolence as conceived by such people as Gandhi and Martin Luther King Jr. But the program also allows students to explore in theory and in practice such pragmatic nonviolent techniques as mediation, arbitration, vegetarianism, nonviolent political action, international relations and social action.

Students may participate in the center in several ways: by taking individual course offerings through the center; by participating as volunteers in any programs sponsored by the center; by pursuing a minor in nonviolence through the center’s course offerings; or by designing an interdepartmental major with a focus on nonviolence, utilizing the courses offered through the center.

Requirements

Students wishing to design their own interdepartmental major that focuses on nonviolence should consult individually with the director of the center.

Students wishing to complete a minor in nonviolence must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NV-101</td>
<td>INTRO NONVIOLENCE/CONFLICT RES</td>
<td>3</td>
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<tr>
<td>NV-102</td>
<td>VIOLENCE:CAUSES/EFFECTS</td>
<td>3</td>
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<td>Select any NV-200-level course</td>
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<tr>
<td>NV-301</td>
<td>PHILOSOPHY OF NONVIOLENCE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Any course from the Center for Nonviolence</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MGT-324 LABOR RELATIONS</td>
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<td>POLS-103 INTERNATIONAL RELATIONS</td>
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<td>POLS-460 NATIONALISM &amp; ETHNIC CONFLICT</td>
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<td>PSYC-212 SOCIAL PSYCHOLOGY</td>
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<tr>
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<td>PSYC-313 INTERPERSONAL RELATIONS</td>
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</table>

Total Credits 18

Nonviolence (NV)

NV-101 INTRO NONVIOLENCE/CONFLICT RES (3 Credits)

Nonviolence may be regarded as a means, an end, or a way of life. This course examines the proponents, philosophies and techniques of nonviolent action in the resolution of personal interpersonal, societal, and international conflicts. Mohandas Gandhi and Martin Luther King Jr. are among the proponents of nonviolence studied in the course. In addition, the qualities, attitudes and roles of nonviolent activists are identified through studies of the nature of power and the methods and dynamics of nonviolent action.

NV-102 VIOLENCE:CAUSES/EFFECTS (3 Credits)

Is violence inescapably part of the human condition? Can anything be done to reduce violence in one’s personal life, in community life, in international relations? This course considers the nature of violence and its biological, sociological and psychological roots. It examines the various effects of violence on individuals, communities and states in times of war and peace. Finally, the course explores some ethical, spiritual and political approaches to reducing violence.

NV-203 MARTIN LUTHER KING, JR. (3 Credits)

This course examines the life and philosophy of Martin Luther King Jr., including the historical context of his work, the basis for his religious beliefs, his commitment to nonviolence, his work for civil rights and his work against the Vietnam War and poverty.

NV-301 PHILOSOPHY OF NONVIOLENCE (3 Credits)

This course explores in a seminar format the following themes: the theoretical underpinnings of nonviolence as a way of life and as a political and social strategy; the seminal thinkers and writers in the development of nonviolence; the moral basis, if any, for nonviolence; whether nonviolence itself can serve as a moral basis for other theories; the criticisms raised against theorists and practitioners of pacifism and nonviolence; the defenders and critics of the just war tradition; and the theoretical differences between pragmatic nonviolence and principled nonviolence.

NV-303 JUSTICE & PEACE IN THE FRANCISCAN TRAD (3 Credits)

This course focuses on understanding the rights and dignity of the individual employing Franciscan ideas and values and the principles of Catholic Social Teaching. It will include a focused study of encyclicals and pastoral letters by church leaders on social issues. Social justice themes will be paralleled with Franciscan Values as found in early Franciscan sources. Integrated with the course work will be a service-learning or advocacy project.

Prerequisite(s): Take CLAR-206 CLAR-207

NV-303H JUSTICE & PEACE IN THE FRANCISCAN TRAD (3 Credits)

This course focuses on understanding the rights and dignity of the individual employing Franciscan ideas and values and the principles of Catholic Social Teaching. It will include a focused study of encyclicals and pastoral letters by church leaders on social issues. Social justice themes will be paralleled with Franciscan Values as found in early Franciscan sources. Integrated with the course work will be a service-learning or advocacy project.

Prerequisite(s): Take CLAR-206 CLAR-207

Restrictions: RG.HON

NV-310 SP.STY IN NON VIOLENCE (3 Credits)

An intensive study of a specific person, issue, or movement related to nonviolence. The content of the course will be announced prior to the semester during which it is offered. The course may be retaken provided the content of the course has changed.

NV-310AD THE DEATH PENALTY (3 Credits)

The Philosophy of Gandhi course introduces students to Gandhi’s metaphysical views about the nature of truth and reality as well as to his views on ethics and his political philosophy, on how human beings should conduct themselves as individuals and as a community. The course will critically examine the various vows required of members of Gandhi’s community and the philosophical arguments Gandhi offered for requiring such vows. Finally, the course will examine critically the connection between the personal and political aspects of Gandhi’s thought.
SCHOOL OF BUSINESS

Dean: Matrecia James, Ph.D.
Assistant Dean: Mary Coombs, M.S.
Program Director, Master of Business Administration: Mary Coombs, M.S.
Administrative Assistant: Tina Dewe

"The St. Bonaventure University School of Business Develops Responsible Leaders for the Greater Good and the Bottom Line."

Vision
The St. Bonaventure University School of Business seeks to be recognized as the premier Franciscan business school, one that excels in business education, applied scholarship, and impactful engagements with the regional, national, and global communities in which we live.

Mission
"The St. Bonaventure University School of Business Develops Responsible Leaders for the Greater Good and the Bottom Line." Our School is inspired by educational excellence in the Catholic Franciscan tradition to develop, for the increasingly complex world of business, critical and ethical thinkers who value discovery, global community, belief in the goodness of life and the God-given worth of every individual.

Values
The following Franciscan Values are uniquely linked to our Franciscan mission and are incorporated into our curriculum and services learning initiatives.

Contemplation
To think deeply, to ponder, to meditate, to consider, to study, to plan, to ask "what does it all mean?" is to be a contemplative

Love
To learn ... not for the sake of accumulating knowledge alone, but so that knowledge can be applied to the betterment of others.

Respect
To be a "global village" in which people of all social classes, races, nations and beliefs live, accept, and attempt to understand and support one another.

Joy
To believe that the God who made the world is a good God, that the world and the people in it are good, and that whatever difficulties we face, it's all going to work out for the best. To look at life through a positive lens.

Peace
To uncover the injustices which are the roots of hatred and violence. To prepare ourselves with knowledge, skill and love to promote a better world; to truly be an "instrument" of God's peace.

Compassionate Service
To volunteer, to help, to seek opportunities to be of assistance to others. To give of our time with a sense of humility and a desire to make the world a better place. To see education as a means of being able to serve our fellow human beings.

School of Business Values & Principles
In fulfilling our mission, we are guided by our Catholic faith and ever mindful of our Franciscan values, such as individual worth, concern for and service to others, pursuing knowledge for the contemplation, love, respect, joy, peace, and compassionate service. Our community of learners offers opportunities for broad and deep reflection about how business should operate more responsibly in an increasingly complex and integrated world – and how to lead in that role.

As such, we challenge ourselves daily to integrate the following three principles:

1. Educate each student to meet the challenges of a dynamic global business environment.
2. Improve the education of our students by pursuing scholarship and fostering a culture of discovery.
3. Manifest our values through lives that include committed citizenship and impactful community service and engagement.

SCHOOL OF BUSINESS ACADEMIC POLICIES AND PROCEDURES
All St. Bonaventure University academic policies are applicable to students enrolled in the School of Business. Additionally, the following academic policies are applicable specifically to students who intend to major in any area of business:

- Transfer students must complete one-half of the major requirements as well as a minimum of 45 credits at St. Bonaventure University.
- Students not enrolled in a School of Business major are limited to a maximum total of 30 credit hours of business courses.
DEPARTMENT OF ACCOUNTING

Department Chair: Michael Kasperski, M.B.A., CPA

Faculty
C. J. Coate, Ph.D., CPA
C. Fischer, Ph.D., CPA
M. Fischer, Ph.D., CPA
M. Kasperski, M.B.A., CPA
D. King, M.B.A., CPA
B. McAllister, M.B.A., CPA
F. Sang, Ph.D.

Accounting, BBA

The program in accounting provides students with a course of study designed to qualify them for careers in either public accounting, private accounting, or financial management. The accounting BBA prepares students to work in a variety of accounting and business fields, tailored to their individual interests.

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School of Business Required Courses

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<td>BIS-310</td>
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<td>MGT-301</td>
<td>MGMT &amp; ORGANIZATION.BEHAVIOR</td>
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<td>PRODUCTION OPERATION MGMT</td>
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<td>BUSINESS POLICY</td>
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<td>QMX-212</td>
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Non-Business Requirements

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Technology and Communications

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<td>SC-301</td>
<td>STRATEGIC WRITING &amp; PROFESSIONAL COMM</td>
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General Education Requirements (p. 161) 37

1 Students planning to pursue the Professional Accountancy (150 hour CPA) track in the MBA program must take: ACCT-401, ACCT-404, ACCT-405, and one additional elective from the following list. Students pursuing the BBA (not the Professional Accountancy track in the MBA) may select 12 credits of ACCT electives from ACCT-401, ACCT-402, ACCT-403, ACCT-404, ACCT-405, ACCT-498, ACCT-499, BLX-211, BLX-402, BIS-335, BIS-420, FIN-312, FIN-321, FIN-401, FIN-402, FIN-410, FIN-421, FIN-422, FIN-461, MGT-322, MGT-330, MGT-422, MGT-430, and MGT-431. ACCT electives must be approved by the student’s adviser and must include at least two courses with a prefix of ACCT.

First Year

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Fourth Year

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Total Credits 120
May substitute MATH-151 for QMX-210

Students planning to pursue the Professional Accountancy (150 hour CPA) track in the MBA program must take: ACCT-401, ACCT-404, ACCT-405, and one additional elective from the following list. Students pursuing the BBA (not the Professional Accountancy track in the MBA) may select 12 credits of ACCT electives from ACCT-401, ACCT-402, ACCT-403, ACCT-404, ACCT-405, ACCT-420, ACCT-498, ACCT-499, BLX-211, BLX-402, BIS-335, BIS-420, FIN-312, FIN-321, FIN-401, FIN-402, FIN-410, FIN-421, FIN-422, FIN-461, MGT-322, MGT-330, MGT-422, MGT-430, and MGT-431. ACCT electives must be approved by the student’s adviser and must include at least two courses with a prefix of ACCT.
DEPARTMENT OF FINANCE

Department Chair: D. Mark Wilson, Ph.D.

Faculty
K. Amira, Ph.D.
G. Bootheway, M.A.
M. Gallagher, Ph.D.
J. Mahar, Ph.D.
B. Posmanick, Ph.D.
D. Wilson, Ph.D.

- Finance, BBA (p. 314)

Finance (FIN)

FIN-210 MONEY MANAGEMENT SEMINAR (1 Credit)
This is an entry level course listing that allows students to learn about finance and money management and get course credit for actively participating in the SIMM program at levels that are less rigorous than the FIN 410/FIN 420 expectations. This course allows you to vote on investment decisions and make stock pitches without the managerial responsibilities that come with the upper level classes. Students can become Jr. Level analysts while learning as a slower pace while still having the structure of a class. 1.0 credits. This course may be taken up to six times. Students with a major in Finance may not have the credit count towards the elective requirement for the major.

FIN-301 CORPORATION FINANCE (3 Credits)
An in-depth analysis of the financial structure and problems of the corporation. Topics treated include valuation and risk, capital structure, the capital-budgeting decision, long-term financing decisions, working capital policy and financial analysis.
Prerequisite(s): Take ECO-101, ACCT-201 and QMX-211 or MATH-107

FIN-312 ECONOMETRICS FOR FINANCE (3 Credits)
This course will develop both the theory and practice of econometrics at a level that will allow students to be knowledgeable producers and users of empirical research in finance. Among the topics covered are multiple regression and correlation, dummy variables, simultaneous equation models and the study of the methods utilized when the classical assumptions are violated.
Prerequisite(s): Take MATH-122 and QMX-212

FIN-321 MONEY AND BANKING (3 Credits)
A study of the theory and practices of the monetary and banking systems of the United States and their influence on economic activity.
Prerequisite(s): Take ECO-101 & ECO-102

FIN-322 FINANCIAL INST. & MARKETS (3 Credits)
A detailed examination of the major aspects of the United States money and capital markets. A survey of the operations and functions of private financial institutions and their effect on aggregate economic activity.
Prerequisite(s): Take FIN-321

FIN-323 THE ECON & FIN OF SPORTS (3 Credits)
This course is designed for two purposes: to use sports to deepen our understanding of economics and financial markets and to use economics and financial markets to deepen our understanding of sports. There is a vast array of topics that we will cover including attendance modeling, salary structure, salary caps, financing of stadiums, tournament structure, competitive balance, doping in sports, gambling markets, etc. Key economic principles covered include supply and demand, industrial organization, price theory, labor markets, salary determination and discrimination, tournament theory, Coase Theorem, and game theory. Financial principles covered include financing of sports teams in different leagues, public vs private financing of stadiums, efficient markets hypothesis, and behavioral finance. We will cover historical topics and address current events. Students will participate in class discussion, read economic papers on sports, and give short presentations on the articles they read.

Prerequisite(s): Take QMX-212 and IT-220

FIN-381 REAL ESTATE FINANCE (3 Credits)
An in-depth study of real estate as an investment. Course coverage includes an analysis of the factors critical to the success of an investment in real estate, including operating cash flows, increases market value, alternative sources of financing and the effects of income taxes. In addition, the course provides detailed coverage of various techniques used to evaluate potential real estate investments. The course utilizes lectures to introduce new subject matter and a series of case studies to provide hands-on experience to the student.
Prerequisite(s): Take FIN-301

FIN-401 ADV CORPORATE FINANCE (3 Credits)
An in-depth study of corporate finance. Topics will include valuation, risk analysis, risk management, capital budgeting, capital structure, mergers and acquisitions, market efficiency, long-term financing, and short-term finance.
Prerequisite(s): Take FIN-301

FIN-402 PROBLEMS IN FINANCE (3 Credits)
This course is the Finance capstone course. A case studies course designed to build upon and integrate the knowledge accrued from FIN 401 as well as other required courses in finance. Particular reference is made to current problems in finance.
Prerequisite(s): Take FIN-401

FIN-410 STUDENT INVESTMENT FUND (3 Credits)
The Student Investment Fund asks students to manage a real estate investment portfolio. Students make and implement assets allocation decisions, analyze sectors and individual companies and manage administrative issues. Students are responsible for reporting their activities and investment results to an advisory board.
Prerequisite(s): Take FIN-301

FIN-410A STUDENT INVESTMENT FUND (3 Credits)
Prerequisite(s): Take FIN-301

FIN-410B STUDENT INVESTMENT FUND (3 Credits)
Prerequisite(s): Take FIN-410A
FIN-420 STUDENT INVESTMENT FUND II (3 Credits)
Students in SIMM II are asked to manage an energy hedge fund. Students will make investment decisions across all areas of the energy universe. They can trade (long or short) in equities, futures, and options. Students are responsible for active risk management and regular reporting to an advisory board.
Prerequisite(s): Take FIN-410

FIN-421 INVESTMENTS (3 Credits)
An introduction to the field of investments. Modern portfolio theory is treated in depth and provides the basis for a clear understanding of the Capital Asset Pricing model and Arbitrage Pricing Theory. Securities discussed will include common stock, preferred stock, corporate bonds, municipal bonds, warrants, convertibles and stock options.
Prerequisite(s): Take FIN-301

FIN-422 PORTFOLIO THEORY & SELECTION (3 Credits)
A survey of recent theories of risk diversification and portfolio balance. The course begins with the study of differing attitudes toward risk among investors and the implications for asset selection. Alternative valuation methods are reviewed. The problems of forming efficient portfolios and of evaluating their performance as well as those of professionally managed ones are considered. The motivation and consequence of including options, future and swaps in portfolios will also be examined.
Prerequisite(s): Take FIN-421

FIN-461 INTERNAT L FINANCIAL MGMT (3 Credits)
A study of the problems and opportunities faced by the financial manager of firms exposed to foreign exchange risk. Topics covered will include the basic forms of foreign exchange contracts: spot, forward, futures and options, as well as the use of these contracts for hedging, arbitrage, and speculative purpose. Investment and financing decisions in international capital markets will be discussed in detail.
Prerequisite(s): Take FIN 301

FIN-498A IND. STUDY & RESEARCH (1-6 Credits)
Research in selected topics in finance and banking under the supervision of a faculty member. Designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular offerings.

FIN-498B IND. ST. BEHAVIORAL FINANCE (3 Credits)
Research in selected topics in finance and banking under the supervision of a faculty member. Designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular offerings.

FIN-499 SPECIAL TOPICS (1-3 Credits)
A well-defined course of study in specific topics in finance such as business cycles, public finance nonprofit finance and banking, which go beyond the regular course offerings.

FIN-499A IND. STUDY & RESEARCH (1-3 Credits)

FIN-499B FINANCIAL PLANNING (3 Credits)

FIN-499C SP TOP BANK MANAGEMENT (3 Credits)

FIN-499D STUD MANAGED INVESTMENT FUND (3 Credits)

FIN-499E PRINC OF RISK & INSURANCE (3 Credits)

FIN-499F SP TOP FINANCIAL MODELING (3 Credits)
Prerequisite(s): FIN-301

FIN-499G SP TOP BEHAVIORAL FINANCE (3 Credits)
Prerequisite(s): Take FIN-301

FIN-499J SP TOP. ALGORITHMIC TRADING & APPLIED FINANCE PROJECTS (3 Credits)

FIN-499K SP TOP. FINANCIAL MODELING (1-3 Credits)
A well-defined course of study in specific topics in finance such as business cycles, public finance nonprofit finance and banking, which go beyond the regular course offerings.

FIN-499LM SP TOP. LONDON FINANCIAL MARKETS (3 Credits)
A well-defined course of study in specific topics in finance such as business cycles, public finance nonprofit finance and banking, which go beyond the regular course offerings.

Prerequisite(s): Take FIN-301
Restrictions: RGM.134

Finance, BBA

The program in finance provides a balance between economic theory and accounting with concentration and emphasis on the monetary system and its relationship to the firm and financial management.

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School of Business Required Courses 30

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Non-Business Requirements

General Education Requirements (p. 161) 37

ECO-101    | MICROECONOMIC PRINCIPLES                   | 3       |
ECO-102  MACROECONOMIC PRINCIPLES  3  
QMX-210  QUANTITATIVE APPLICATION FOR BUSINESS STUDENTS  3  
MATH-122  CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCES  3  
QMX-211  INTRODUCTION TO STATISTICS  3  
IT-220  DATA CRUNCHING IN BUSINESS  3  
SC-301  STRATEGIC WRITING & PROFESSIONAL COMM  3  

**General Electives**  5  
Total Credits  120  

1 May substitute MATH-151 for QMX-210 and MATH-122.

**First Year**

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**Second Year**

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**Third Year**

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**Fourth Year**

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Total Credits 120

1 May substitute MATH-151 for QMX-210 and MATH-122.

2 **Finance Major Electives:** Two courses or at least six credit hours required among: FIN-333, FIN-410, FIN-420, FIN-422, FIN-461, FIN-498, FIN-499, ACCT-308, ACCT-362, ACCT-420, ECO-313, ECO-314.
DEPARTMENT OF MANAGEMENT

Department Chair: Todd S. Palmer, Ph.D.

Faculty

C. Case, Ph.D.
M. James, Ph.D.
K. Jamro, Ph.D.
T. Palmer, Ph.D.
J. Stevens, M.A.
J. Zhu, Ph.D.

- Management, BBA (p. 317)

Management (MGT)

MGT-ELEC MANAGEMENT SCIENCE ELECTIVE (3 Credits)

MGT-301 MGMT & ORGANIZA.BEHAVIOR (3 Credits)
An investigation of the major functions of management (planning, organizing, coordinating, and controlling). An in-depth analysis of concepts and theories from the behavioral sciences. Particular attention is given to theories of motivation, organizational structure and behavior, management development, group dynamics, models of authority and the management of changing organizations and how they relate to modern managerial techniques.

MGT-306 PRODUCTION OPERATION MGMT (3 Credits)
A descriptive and analytical approach to the study of production processes. Topics discussed include forecasting, inventory planning, aggregate planning and scheduling, plant layout, quality control, methods analysis and work measurements.
Prerequisite(s): Take QMX-212

MGT-306H PRODUCTION MANAGEMENT (HONORS) (3 Credits)
Restrictions: RG.HON

MGT-310 INTERNATIONAL MANAGEMENT (3 Credits)
An in-depth analysis of the concepts that involve the operations of multinational corporations (MNCs) and foreign corporations and their effect on international business.
Prerequisite(s): Take MGT-301

MGT-322 INTRO TO BUSINESS ANALTICS (3 Credits)
An overview of quantitative techniques used in managerial decision analysis. Decision theory concepts are introduced with an emphasis on descriptive analytics and visualization techniques.
Prerequisite(s): Take QMX-212

MGT-324 LABOR RELATIONS (3 Credits)
A historical and analytical coverage of the relationship between organized labor and management. Topics discussed include an investigation of organized labor as a political group and as a party in the collective bargaining process.
Prerequisite(s): Take MGT-301

MGT-329 INTRO TO SPORTS MANAGEMENT (3 Credits)
Study of topics currently defining the sports industry including quality and continuous improvement, teamwork, diversity, ethics and social responsibility, globalization, information technology and change.
Restrictions: RG.BSM

MGT-330 INTRO TO ENTREPRENEURSHIP (3 Credits)
An introductory exploration into the creation of new ventures. Emphasis is placed on low-capital intensive startups--businesses that students can develop while still at university. Skill sets emphasized include basic social media and content management systems (web design). Recommended for sophomores or juniors. Must have permission of instructor.

MGT-401 PERSONNEL/HUMAN RESOURCE (3 Credits)
An investigation of systems designed to manage the human resource. Specific topics include job analysis and description, recruitment, selection and placement of personnel, management development and appraisal systems, incentive systems, and wage and salary administration.
Prerequisite(s): Take MGT-301

MGT-402 ADVANCED HUMAN RESOURCE MANAGEMENT (3 Credits)
This class is an expanded investigation of concepts in the human resource area with an emphasis on systems, structuring and implementation. Specific topics include: total compensation; strategic integration; performance management; and implementation tactics.

MGT-413 BUSINESS POLICY (3 Credits)
This is the School of Business capstone course and is taken during the student's senior year. Utilizing the case approach, the student will be required to apply concepts of management, accounting, marketing, economics, and finance to case analysis. The cases will cover a large number of companies engaged in widely diversified activities. Emphasis will be placed on policy formulation and top management decision-making.
Restrictions: RG.71+

MGT-416 SOCIAL ROLES IN ORGANIZATIONS (3 Credits)
This course will use the ethics and stakeholder management framework, emphasizing business's social and ethical responsibilities to both external and internal stakeholder groups. The ethics dimension is central to this course.
Prerequisite(s): Take MGT-301

MGT-419 ORGANIZATION DEVELOPMENT (3 Credits)
An examination of various theories, design, and practices related to developing work organizations as more effective entities. Topics discussed include organizational development models, stages of organizational growth and health, team building and conflict resolution.
Prerequisite(s): Take MGT-301

MGT-422 APPLIED MANAGEMENT SCIENCE (3 Credits)
A study of quantitative techniques applicable to management with a strong orientation towards application. The areas covered include simulation, forecasting, game theory, and advanced topics in mathematical programming, case studies and projects are employed to provide practical applications of the methods discussed.
Prerequisite(s): Take MSC-322 OR MSC-306

MGT-430 ENTREPRENEURSHIP PRACT. (3 Credits)
Practice in actual small business problem situations. Student teams will consult small businesses in the field and prepare formal recommendations for management consideration.
Prerequisite(s): Take MGT-301 MGT-330 ACCT-201 ACCT-202

MGT-431 ADV ENTREPRENEURSHIP PRACT. (3 Credits)
Advanced practice in actual small business problem situations. In cooperation with the Small Business Administration, student teams will consult with a small business in the field and prepare formal recommendations for management consideration.
Prerequisite(s): Take MGT-430
MGT-432 FAMILY BUSINESS MANAGEMENT (3 Credits)
From the small businesses started in basements to the Ford Motor Company, most firms in the world are founded, financed and controlled by families. Most students are—or will be—working in a family-controlled enterprise. Most companies have suppliers, customers and advisors (accountants, attorneys, etc.) whose firms are family-controlled. Therefore to have a thorough understanding of the business world, students should study family enterprise. This course addresses the special issues of family-controlled firms including succession, finance, governance, strategy, family dynamics, culture, philanthropy and family offices. The course will involve guest lecturers, case studies, field and research assignments and presentations regarding family enterprise. In owning, advising or working with family businesses, one must be aware of three separate dynamics: the business, the family and ownership. Each presents special professional challenges and at times, they may seem to be at cross-purposes; this is particularly relevant when examining family vs. non-family controlled firms.

MGT-446 INTNL BUSINESS CHINA STUDIES (3 Credits)
This course introduces the student to China, its culture, history, and prospects for the future, all with a business focus. The course entails travel to Shanghai, Xi’an, and Beijing. Briefings are conducted by senior management at several US and foreign businesses in China.

MGT-498 INDEPENDENT STUDY (1-3 Credits)
Research in selected topics in management sciences under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MGT-499 INDEPENDENT STUDY (1-3 Credits)
A well-defined course of study of specific topics in management sciences that go beyond the regular course offerings.

MGT-499A SPECIAL TOPICS (3 Credits)

MGT-499B CURR.ISSUES IN MANAGEMENT (3 Credits)

MGT-499BA SP TOP INTRO TO BUSINESS ANALYTICS (3 Credits)
Prerequisite(s): QXM-211

MGT-499C ENTREPRENEURSHIP (3 Credits)

MGT-499D PROB SOLVING/DECISION MAKING (3 Credits)

MGT-499H ADVANCED MANAGEMENT PROJECTS (3 Credits)
Restrictions: RG.HON

MGT-499HS OVERVIEW OF THE US HEALTHCARE SYSTEM (3 Credits)

MGT-499I ENTREPRENEURIAL LEADERSHIP (3 Credits)

MGT-499K SPECIAL TOPICS: CHANGE MANAGEMENT (3 Credits)

MGT-499L SP TOPICS: PROJECT MANAGEMENT (3 Credits)

MGT-499M SP TOP INTRO TO NON-PROFIT ORG. (3 Credits)

MGT-499N SP TOP MODELING & SIMULATION FOR BUSIN (3 Credits)
Prerequisite(s): MGT-301

MGT-499P INTERNL BUSINESS FRAUD (3 Credits)

MGT-499Q SOCIAL ENTREPRENEURSHIP (3 Credits)

MGT-499R SOCIAL ENTREPRENEURSHIP FOR NON-PROFITS (3 Credits)

MGT-499S IND ST: MANAGEMENT OF SPORTS (1-3 Credits)
A well-defined course of study of specific topics in management sciences that go beyond the regular course offerings.

MGT-499T SP TOP: SUPPLY CHAIN MGMT (3 Credits)

MGT-499U SP TOP: LEADERSHIP IN PROJECT MGMT (3 Credits)
Prerequisite(s): MGT-301

MGT-499V SP TOP: MANUFACTURING (3 Credits)

MGT-499W INTNL BUSINESS CHINA STUDIES (3 Credits)

MGT-499X GLOBAL LEADERSHIP & ETHICAL DECISION MAKING (3 Credits)

MGT-499Y SPECIAL TOPIC: EVENT MANAGEMENT (3 Credits)

MGT-499Z SP TOP: INTRO TO BUSINESS CONSULTING (3 Credits)

Management, BBA
The program in management provides students the opportunity to develop either a behavioral or quantitative emphasis in the areas of general management. Those desiring the quantitative emphasis are also provided the opportunity to minor in quantitative methods.

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<td>MGT-340</td>
<td>BUSINESS OUTLOOK / MGMT SCIENCE INTERNSHIP</td>
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<td>BIS-320</td>
<td>BUSINESS TELECOMMUNICATIONS</td>
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<td>MGT-330</td>
<td>INTRO TO ENTREPRENEURSHIP</td>
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<td>SOCIAL ROLES IN ORGANIZATIONS</td>
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<td>MGT-419</td>
<td>ORGANIZATION DEVELOPMENT</td>
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Select 3 additional credits from the Management Electives or one of the following:

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<td>ACCT-420</td>
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<td>FIN-321</td>
<td>MONEY AND BANKING</td>
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<td>FIN-421</td>
<td>INVESTMENTS</td>
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<td>FIN-461</td>
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<td>BI-300A</td>
<td>GEN.BUSINESS INTERNSHIP</td>
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School of Business Required Courses 30

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<td>BIS-310</td>
<td>BUSINESS INFORMATION SYSTEMS</td>
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**Non-Business Requirements**

General Education Requirements (p. 161) 37
ECO-101  MICROECONOMIC PRINCIPLES 3
ECO-102  MACROECONOMIC PRINCIPLES 3
QMX-210  QUANTITATIVE APPLICATION FOR BUSINESS STUDENTS 1
QMX-211  INTRODUCTION TO STATISTICS 3
IT-220  DATA CRUNCHING IN BUSINESS 3
SC-301  STRATEGIC WRITING & PROFESSIONAL COMM 3

**General Electives** 14

**Total Credits** 120

1 May substitute MATH-151 for QMX-210.

**Management Concentrations**

Four concentrations are available to Management majors. A Management major wishing to declare one of these concentrations must complete the following 9 credits for their Management electives:

### Family Business

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<td>MGT-432</td>
<td>FAMILY BUSINESS MANAGEMENT</td>
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<td>PSYC-313</td>
<td>INTERPERSONAL RELATIONS</td>
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**Total Credits** 9

### Entrepreneurship

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**Total Credits** 9

### Global Business Management

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Select two of the following: 6
BLX-402  LEGAL ENIRONMT OF INTNL BUS
ACCT-403  INTL ACCOUNTING
FIN-461  INTERNAT L FINANCIAL MGMT

**Total Credits** 9

### Human Resource Management

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<tr>
<td>PSYC-310</td>
<td>ORGANIZA. &amp; INDUSTRIAL PSYCH.</td>
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**Total Credits** 9

### May substitute MATH-151 for QMX-210.

### Management Major Electives:

Two courses or at least six credits required among: BIS-320, BIS-335, MGT-324, MGT-329, MGT-330, MGT-401, MGT-402, MGT-416, MGT-419, MGT-422, MGT-430, MGT-431, MGT-432, MGT-498, MGT-499, or BI-302B. Three additional credits required from any of the MGT electives above or ACCT-305, ACCT-308, ACCT-420, FIN-321, FIN-421, FIN-461, MKT-302, MKT-402, MGT-405 or BI-300A.
DEPARTMENT OF MARKETING

Department Chair: Todd S. Palmer, Ph.D.

Faculty
A. Foos, Ph.D.
W. Northington, Ph.D.
K. Ryan, M.B.A.

• Marketing, BBA (p. 321)

Marketing (MKT)

MKT-301 PRINCIPLES OF MARKETING (3 Credits)
An in-depth analysis of marketing functions. Topics include consumer behavior, product planning, pricing, distribution and promotion.

MKT-301H PRINC. OF MARKETING (HONORS) (3 Credits)
Restrictions: RG.HON

MKT-302 CONSUMER BEHAVIOR (3 Credits)
Examination of theory and recent research concerning buyer decision processes. Interdisciplinary studies of individual, family and organizational purchases behavior are examined. Present and potential applications for marketing in the public and private sector are discussed.
Prerequisite(s): Take MKT-301

MKT-303 SALES MANAGEMENT & PERSONAL SELLING (3 Credits)
Management of the personal-selling function in both industrial and consumer goods firms. Topics include personal selling and marketing strategy; organizational of the sales force; recruiting; training, motivating, compensation and evaluating sales personnel; and controlling the sales effort.
Prerequisite(s): Take MKT-301

MKT-303B SALES MANAGEMENT (3 Credits)

MKT-304 MERCHANDISING (3 Credits)
An investigation of the marketing functions particularly as they apply to the retail level of the distribution system.
Prerequisite(s): Take MKT-301

MKT-304D MERCHANDISING (3 Credits)

MKT-305 CHANNELS OF DISTRIBUTION (3 Credits)
An analysis of the institutional structure of the channel which creates and distributes product assortment to specific markets. Special emphasis on decision making in channel design, communication, leadership, conflict and control.
Prerequisite(s): Take MKT-301

MKT-306 INTEGRATED MARKETING COMMUNICATION (3 Credits)
An effective integrated marketing communication strategy is one that has one overall message, but is delivered to consumers in parts, through different channels of communication. Each channel has its own unique advantages and disadvantages, which contribute to which channels deliver which parts of a message. Students in this course will gain knowledge about how integrated marketing communications strategies are developed and implemented. This includes the relationship between an integrated marketing communications strategy and other levels of an institution’s strategy, the various roles that exist, from the marketing department to advertising agencies, and research related to development and effectiveness of an organization’s integrated marketing communications strategy.
Prerequisite(s): Take MKT-301

MKT-306C ADVERTISING (3 Credits)

MKT-307 PERSONAL SELLING (3 Credits)
Emphasis on personal and professional development, interpersonal skills, verbal and written presentation skills, understanding sales and buying processes, and developing and maintaining customer satisfaction. Topics include developing trust and rapport, consultative selling, prospecting, and territory and account management.
Prerequisite(s): Take MKT-301

MKT-308 DIGITAL & SOCIAL MEDIA MARKETING (3 Credits)
This course provides students with knowledge of how the principles of marketing are brought to digital channels. Search Engine Optimization provides students with the tools they need to manage a website’s ranking on search engines and the power of search engine analytics. This is combined with techniques to apply other marketing topics to digital channels such as social media and mobile device marketing.
Prerequisite(s): Take MKT-301

MKT-309 SPORTS MARKETING (3 Credits)
This course exposes students to special considerations necessary when applying marketing theory and practice to the area of sports. Upon successful completion of the course, students are expected to develop a better understanding of sports as a marketable commodity and to appreciate the intricacies of sports marketing.
Prerequisite(s): Take MKT-301

MKT-310 EVENT & SPONSORSHIP MARKETING (3 Credits)
This course investigates two interrelated topics: Event Marketing and Sponsorship. The first half of the course focuses attention on event marketing including event planning, generating revenue and strategic partnerships. The second half of the course focuses on sponsorship including measuring sponsorship’s effectiveness, selling sponsorships, and understanding the interrelationships between advertising, sponsorships and celebrity endorsers. In addition, ‘naturally occurring events’ such as the Super Bowl and Olympics will provide case study material for discussion.
Prerequisite(s): Take MKT-301

MKT-311 AMER. ADVERTISING FEDERATION (3 Credits)
This course is built upon a competition (National Student Advertising Competition) that is sponsored by the American Advertising Federation. Each year, a corporate sponsor provides an assignment or case study outlining the history of its product and current advertising situation. The case study is always candid and reflects a real world situation. Students must research the product and its competition, identify potential problem areas and devise a completely integrated communications campaign for the client. Each student team then ‘pitches’ its campaign to a panel of judges. Regional NSAC competitions are held each spring in 15 district areas and one wild card team then advances to compete on the national level at the AAF National Conference in June. St. Bonaventure University participates in the competition.
Prerequisite(s): Take MKT-301

MKT-312 BUS. COMMUNICATION (3 Credits)

MKT-401 SEARCH ENGINE OPTIMIZATION (3 Credits)
This course provides students with knowledge of how the principles of marketing are brought to digital channels. Search Engine Optimization provides students with the tools they need to manage a website’s ranking on search engines and the power of search engine analytics. This is combined with techniques to apply other marketing topics to digital channels such as social media and mobile device marketing.
Prerequisite(s): Take MKT-301
MKT-402B MARKETING RESEARCH (3 Credits)

An in-depth analysis of the concepts that involve the marketing operations of multinational markets, foreign corporation and the effect they have on international business.
Prerequisite(s): Take MKT-301

MKT-405 INTERNATIONAL MARKETING (3 Credits)

The application of management science techniques to marketing problems to assist the students in developing their capacity to understand, build and implement quantitative models.

MKT-410 Contemp. Issues and Topics in Marketing (3 Credits)

This course is the undergraduate marketing capstone. Each week a different topic that is important to contemporary marketing practices and theory will be covered. The course is seminar style, supported by a combination of case studies and applications of the contemporary topics by students to outside-world situations. Students will apply the knowledge they gained throughout the program to these topics and learn how they are interrelated within marketing as well as with other areas of an organization, including other business disciplines.
Restrictions: RG.86+

MKT-498B IND. STUDY: FASHION MARKETING (3 Credits)

Study of specific topics in marketing carried out independently by the student under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MKT-499 SPECIAL TOPICS IN MARKETING (1-3 Credits)

A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
Restrictions: RGC.119

MKT-499A ADVANCED AM. ADVERTISING FED. (1-3 Credits)

Corequisite(s): MKT-301

MKT-499B SPORTS MARKETING (3 Credits)

MKT-499C SP.TOP.EVENT/SPONSORSHIP MKTG (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499D SP.TOP.PEOPLE PERSONAL SELLING (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499E SP.TOP.AMER. AD FEDERATION (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499F INTERNET MARKETING (3 Credits)

MKT-499FM SP TOP. FOOD MARKETING (3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301

MKT-499G BLDG MARKETING WEB SITES (3 Credits)

MKT-499H SPECIAL TOPICS IN MARKETING (1-3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
Restrictions: RG.HON
Marketing, BBA

Marketing is concerned with the management of those activities which seek to identify customer needs and which design and direct a flow of products to satisfy consumer demand. It is the objective of the marketing program to develop a broad working knowledge of both the theory and practice of marketing. Program flexibility and adaptability to special interests is provided by electives within and outside the major.

MKT-499SM SP TOP: SERVICES MARKETING (3 Credits)

A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.

Prerequisite(s): Take MKT-301

MKT-499T SP TOP: NEW MEDIA MKTG (3 Credits)

Prerequisite(s):

TAKE MKT-301

MKT-499Z PERSONAL SELLING (3 Credits)

Prerequisite(s): MKT-301 AND MKT-308

School of Business Required Courses

30

ACCT-201 INTRO TO FINANCIAL ACCT
ACCT-202 INTRO TO MANAGERIAL ACCT
BIS-310 BUSINESS INFORMATION SYSTEMS

Total Credits 120

Codes and Title

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Total Credits 120
1 May substitute MATH-151 for QMX-210
2 **Marketing Major Electives:** Three courses or at least nine credits required among: MKT-303, MKT-304, MKT-305, MKT-309, MKT-310 and MKT-311, MKT-405, MKT-407, MKT-498 or MKT-499, BLX-401.
DEPARTMENT OF SPORT MANAGEMENT

Department Chair: D. Mark Wilson, Ph.D.
Faculty
K. Amira, Ph.D.
G. Bootheway, M.A.
C. Case, Ph.D.
M. Jahed, Ph.D.
M. Kasperski, M.B.A., C.P.A.
B. McAllister, M.B.A., C.P.A.
K. Ryan, M.B.A.
J. Stevens, M.A.
J. Zhu, Ph.D.

- Sport Management, BBA (p. 323)

BSM-200 SPORTS MANAGEMENT PRACTICUM I (1 Credit)
Introduction to game and event administration. Required minimum 50 hours of on-site game administration, including assisting in the planning, organizing and conducting of St. Bonaventure intercollegiate athletic events during a given semester.
Prerequisite(s): Take MGT-329 BSM-201 and Sophomore Sports Management major
Restrictions: RG.BSM

BSM-201 SPORT FACILITY & EVENT MANAGEMENT (3 Credits)
This course is designed to provide students with information and practical knowledge and skill competencies needed for facility and event management. A major emphasis will be on identifying management strategies, policy development, strategic planning and governance structures.

Restrictions: RG.BSM

BSM-300 SPORTS MANAGEMENT PRACTICUM II (1 Credit)
Introduction to athletic administration. Required minimum 50 hours of on-site administration focusing on concentration area and conducted with St. Bonaventure intercollegiate athletic department.
Prerequisite(s): Take MGT-329, MKT-309, BSM-200 and Junior Sports Management major
Restrictions: RG.BSM

BSM-301 SPORTS PROMOTION & SALES MANAGEMENT (3 Credits)
This course prepares students with the basic knowledge and skills necessary for a career in sales. Students explore and understand successful sales and promotion behaviors to meet the goals of an organization. Course topics include the selling principles and techniques, creating value, negotiation, closing the sale, as well as how to motivate, compensate and train sales people.
Prerequisite(s): Take MKT-309 and BSM-201

Restrictions: RG.BSM

BSM-400 SPORTS MANAGEMENT MAJOR INTERNSHIP (3 Credits)
The internship takes place upon completion of all sport related coursework and exposes students to field experience with the business world of sports.
Prerequisite(s): Take BSM-200, BSM-300 and Senior Sport Management major
Restrictions: RG.BSM

BSM-401 STRATEGIC MANAGEMENT IN SPORT ORGANIZATIONS (3 Credits)
Students in this course learn the principles of managing a sport organization and gain a broad overview of the sports business marketplace while examining the theoretical underpinnings of leadership through the sports industry and various sport organizations. Students will study skills related to strategic planning and creative problem solving, leader behaviors, characteristics and cognitive dimensions of leadership.
Prerequisite(s): Take BSM-200, BSM-300 and Senior Sport Management major
Restrictions: RG.BSM

Sport Management, BBA

The sport management major prepares leaders to work in the business side of sports, where you will use the same management, financial, operational and marketing skills as any other business industry. Sport management is an exciting, in-demand industry, one the U.S. Bureau of Labor Statistics predicts will see expansion through 2028. A business degree at its core, our sports management majors choose an area of concentration from one of the following disciplines: accounting, finance, human resource management, or marketing. Our program offers a balance between business theory and sports management, preparing you for a variety of career opportunities:

- management and executive positions with professional sport franchises or collegiate athletics
- sports facility and event management
- sports marketing, sales, promotion and advertising
- student-athlete affairs
- sports information, fundraising and development
- hospitality management
- nonprofit sports organizations

You will be equipped with knowledge and understanding of fundamental principles required for success in the profession, such as:

- practical knowledge and skill competencies for facility and event management
- an introduction to game and event administration
- successful sales and promotion behaviors for meeting organizational goals
- sport organization management
- effective leadership
- strategic planning and creative problem solving

What’s more, the university’s Franciscan values and mission are incorporated into our curriculum. You will be equipped to analyze moral and ethical issues related to sport, and to develop a personal philosophy regarding social responsibility and moral commitment in a sports management setting.

Sports management majors learn by doing

All sports management majors will complete a three-credit, 150-hour internship, and two one-credit, 50-hour practicums, which are essentially mini-internships.

The internship is served with an organization that will provide the student with practical sports industry experience directly related to the business world of sports. Students will seek internships on their own, with guidance from the School of Business internship coordinator.
The two practicums are served with the university’s Department of Athletics, assisting with the planning, organization and conducting of activities in St. Bonaventure’s highly respected Division I athletic programs. These are invaluable experiences that provide direct exposure to the business world of sports.

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<td>STRATEGIC MANAGEMENT IN SPORT ORGANIZATIONS</td>
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Select one of the following electives:

- HIST-207 | SPORTS & AMERICAN SOCIETY
- PHED-310 | PHIL/PRINC INTERSCHOLASTIC ATH
- PHED-414 | SOCIAL THEORY OF SPORT
- PHED-313 | WOMEN IN SPORTS
- or WS-313 | WOMEN IN SPORTS
- JMC-341 | SPORTS TV PRODUCTION I
- MKT-310 | EVENT & SPONSORSHIP MARKETING
- BLX-310 | SPORTS AND THE LAW
- FIN-334 | SPORTS ANALYTICS
- PSYC-414 | SPORT & EXERCISE PSYCH
- BSM-301 | SPORTS PROMOTION & SALES MANAGEMENT

**Sport Management Concentrations**

Four concentrations are available to Sport Management majors. A Sport Management major wishing to declare one of these concentrations must complete the following 9 credits for their electives:

### Accounting

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<td>INTRO. TO TAXES</td>
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**Total Credits** 9

### Finance

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Select two of the following:

- FIN-312 | ECONOMETRICS FOR FINANCE
- FIN-321 | MONEY AND BANKING
- FIN-401 | ADV. CORPORATE FINANCE
- FIN-402 | PROBLEMS IN FINANCE
- FIN-421 | INVESTMENTS
- FIN-461 | INTERNAT L FINANCIAL MGMT

**Total Credits** 9

### Human Resource Management

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Select one of the following:

- MGT-324 | LABOR RELATIONS
- MGT-402 | ADVANCED HUMAN RESOURCE MANAGEMENT
- MGT-416 | SOCIAL ROLES IN ORGANIZATIONS
- MGT-419 | ORGANIZATION DEVELOPMENT

**Total Credits** 9

### Marketing

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Select two of the following:

- MKT-302 | CONSUMER BEHAVIOR
- MKT-303 | SALES MANAGEMENT & PERSONAL SELLING
- MKT-306 | INTEGRATED MARKETING COMMUNICATION
- MKT-308 | DIGITAL & SOCIAL MEDIA MARKETING
- MKT-310 | EVENT & SPONSORSHIP MARKETING

**Total Credits** 9
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<td><strong>Total</strong></td>
<td>16</td>
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Total Credits 120

3. Four concentrations are available to select from Accounting, Finance, Human Resource Management and Marketing.
PRE-PROFESSIONAL STUDIES IN BUSINESS

(For Non-majors)

Students majoring in areas other than business who wish to augment their studies with foundational business courses may wish to include some of the courses listed below as part of their four-year academic experience. This opportunity should be of particular interest to non-majors who wish eventually to enroll in a graduate program in business. Those interested are encouraged, however, to check the specific requirements of the graduate programs to which they might apply.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ACCT-201</td>
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<td>ACCT-202</td>
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<td>BLX-210</td>
<td>BUSINESS LAW I</td>
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<td>BUS-101</td>
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<tr>
<td>ECO-101</td>
<td>MICROECONOMIC PRINCIPLES</td>
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<td>ECO-102</td>
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<td>FIN-301</td>
<td>CORPORATION FINANCE</td>
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<td>MKT-301</td>
<td>MGMT &amp; ORGANIZA.BEHAVIOR</td>
<td>3</td>
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<td>QMX-211</td>
<td>INTRODUCTION TO STATISTICS</td>
<td>3</td>
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<tr>
<td>QMX-212</td>
<td>STATISTICAL APPS FOR BUSINESS</td>
<td>3</td>
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</tbody>
</table>

Total Credits 33

Note: Students not enrolled in a School of Business major are limited to a maximum total of 30 credit hours of business courses.
**UNDERGRADUATE MINORS IN BUSINESS**

The School of Business offers minors in nine different areas. Each minor is composed of a minimum of eighteen credit hours that offer students an opportunity to study a specific area of business in more detail.

- Accounting, Minor (p. 332)
- Business Administration, Minor (p. 332)
- Economics, Minor (p. 333)
- Family Business, Minor (p. 333)
- Finance, Minor (p. 333)
- International Business, Minor (p. 333)
- Management, Minor (p. 333)
- Marketing, Minor (p. 333)
- Quantitative Analysis for Business, Minor (p. 334)
- Sports Management, Minor (p. 334)

**Economics (ECO)**

ECO-ELEC ECONOMICS ELECTIVE (3 Credits)

ECO-101 MICROECONOMIC PRINCIPLES (3 Credits)
An introductory investigation of economics as it relates to individual economic units (e.g., the firm). Emphasis is placed on price theory within the context of various market structures.

ECO-101H MICROECONOMIC PRINCIP.(HONORS) (3 Credits)
Restrictions: RG.HON

ECO-102 MACROECONOMIC PRINCIPLES (3 Credits)
An introductory investigation of economics as it relates to aggregate economies (e.g. a nation). Emphasis is placed on the determination of national income and the composition and pricing of national output.

ECO-308 ENVIRONMENTAL ECONOMICS (3 Credits)
Studies the efficient use of society’s scarce environmental resources. Environmental economics is a course in applied welfare economics with an emphasis on market failures (externality and common access resources), and solutions to market failures, along with the economic valuation of environmental amenities such as clean air and water.

Prerequisite(s): Take ECO-101

ECO-313 INTERMEDIATE MICROECONOMICS (3 Credits)
This course develops the economic theory of the firm and consumer choice. The former includes analyses of market structures, output and input pricing decisions, cost minimization, and profit maximization. The latter characterizes consumer’s optimal decisions given their incomes, preferences and the relative prices of various goods. The course develops tools for analyzing how these optimal choices change when relative prices and consumer incomes change. Also, the course presents several measures on consumer welfare. Other topics may include general equilibrium analysis, market failure, public economics, public choice, decision making under uncertainty, and game theory applications. The course relies on calculus when presenting and developing the various economic models.

Prerequisite(s): Take ECO-101 and MATH-122 or MATH-151

ECO-314 INTERMED. MACROECONOMICS (3 Credits)
An advanced look at Macroeconomics as it relates to households, firms, the government and the Federal Reserve. Analytical, graphical and mathematical solutions to economic problems will be explored. Topics include GDP, unemployment, inflation, money, growth theory, and international trade and finance.

Prerequisite(s): ECO 101 and 102 and (MATH 122 or MATH 151

ECO-498 Independent Study and Research (1-3 Credits)
Research in selected topics in economics under the supervision of a faculty member, designed to allow the student to probe specific interests that lie beyond the coverage normally found in regular course offerings.

Prerequisite(s): ECO-101

ECO-498G STUDENT INVOLVEMENT IN VOLUNTEER & SOCIAL ACTIVITIES (3 Credits)
Research in selected topics in economics under the supervision of a faculty member, designed to allow the student to probe specific interests that lie beyond the coverage normally found in regular course offerings.

ECO-499 Special Topics (1-3 Credits)
A well-defined course of study in specific topics in economics that goes beyond the regular course offerings.

ECO-499A SP TOP. DEVELOPMENTAL ECONOMICS (1-3 Credits)
A well-defined course of study in specific topics in economics that goes beyond the regular course offerings.

ECO-499EH SP TOP.ECONOMICS OF HEALTH (1 Credit)
A well-defined course of study in specific topics in economics that goes beyond the regular course offerings.

**Finance (FIN)**

FIN-210 MONEY MANAGEMENT SEMINAR (1 Credit)
This is an entry level course listing that allows students to learn about finance and money management and get course credit for actively participating in the SIMM program at levels that are less rigorous than the FIN 410/FIN 420 expectations. This course allows you to vote on investment decisions and make stock pitches without the managerial responsibilities that come with the upper level classes. Students can become Jr. Level analysts while learning as a slower pace while still having the structure of a class. 1.0 credits. This course may be taken up to six times. Students with a major in Finance may not have the credit count towards the elective requirement for the major.

FIN-301 CORPORATION FINANCE (3 Credits)
An in-depth analysis of the financial structure and problems of the corporation. Topics treated include valuation and risk, capital structure, the capital-budgeting decision, long-term financing decisions, working capital policy and financial analysis.

Prerequisite(s): Take ECO-101, ACCT-201 and QMX-211 or MATH-107

FIN-312 ECONOMETRICS FOR FINANCE (3 Credits)
This course will develop both the theory and practice of econometrics at a level that will allow students to be knowledgeable producers and users of empirical research in finance. Among the topics covered are multiple regression and correlation, dummy variables, simultaneous equation models and the study of the methods utilizing when the classical assumptions are violated.

Prerequisite(s): Take MATH-122 and QMX-212

FIN-321 MONEY AND BANKING (3 Credits)
A study of the theory and practices of the monetary and banking systems of the United States and their influence on economic activity.

Prerequisite(s): Take ECO-101 & ECO-102
FIN-322 FINANCIAL INST. & MARKETS (3 Credits)
A detailed examination of the major aspects of the United States money and capital markets. A survey of the operations and functions of private financial institutions and their effect on aggregate economic activity.
Prerequisite(s): Take FIN-321

FIN-333 THE ECON & FIN OF SPORTS (3 Credits)
This course is designed for two purposes: to use sports to deepen our understanding of economics and financial markets and to use economics and financial markets to deepen our understanding of sports. There is a vast array of topics that we will cover including attendance modeling, salary structure, salary caps, financing of stadiums, tournament structure, competitive balance, doping in sports, gambling markets, etc. Key economic principles covered include supply and demand, industrial organization, price theory, labor markets, salary determination and discrimination, tournament theory, Coase Theorem, and game theory. Financial principles covered include financing of sports teams in different leagues, public vs private financing of stadiums, efficient markets hypothesis, and behavioral finance. We will cover historical topics and address current events. Students will participate in class discussion, read economic papers on sports, and give short presentations on the articles they read.

FIN-334 SPORTS ANALYTICS (3 Credits)
Students will develop and apply analytical skills that are useful in a general business environment, applied specifically to sports. Students will learn how to apply methods and principles in a wide range of applications for purposes of in-game strategy, team management, player performance and fantasy competitions, among many other topics.
Prerequisite(s): Take QMX-212 and IT-220

FIN-381 REAL ESTATE FINANCE (3 Credits)
An in-depth study of real estate as an investment. Course coverage includes an analysis of the factors critical to the success of an investment in real estate, including operating cash flows, increases in market value, alternative sources of financing and the effects of income taxes. In addition, the course provides detailed coverage of various techniques used to evaluate potential real estate investments. The course utilizes lectures to introduce new subject matter and a series of case studies to provide hands-on experience to the student.
Prerequisite(s): Take FIN-301

FIN-401 ADV CORPORATE FINANCE (3 Credits)
An in-depth study of corporate finance. Topics will include valuation, risk analysis, risk management, capital budgeting, capital structure, mergers and acquisitions, market efficiency, long-term financing, and short-term finance.
Prerequisite(s): Take FIN-301

FIN-402 PROBLEMS IN FINANCE (3 Credits)
This course is the Finance capstone course. A case studies course designed to build upon and integrate the knowledge accrued from FIN 401 as well as other required courses in finance. Particular reference is made to current problems in finance.
Prerequisite(s): Take FIN-401

FIN-410 STUDENT INVESTMENT FUND (3 Credits)
The Student Investment Fund asks students to manage a real estate investment portfolio. Students make and implement assets allocation decisions, analyze sectors and individual companies and manage administrative issues. Students are responsible for reporting their activities and investment results to an advisory board.
Prerequisite(s): Take FIN-301

FIN-410A STUDENT INVESTMENT FUND (3 Credits)
Prerequisite(s): Take FIN-301

FIN-410B STUDENT INVESTMENT FUND (3 Credits)
Prerequisite(s): Take FIN-410A

FIN-420 STUDENT INVESTMENT FUND II (3 Credits)
Students in SIMM II are asked to manage an energy hedge fund. Students will make investment decisions across all areas of the energy universe. They can trade (long or short) in equities, futures, and options. Students are responsible for active risk management and regular reporting to an advisory board.
Prerequisite(s): Take FIN-410

FIN-421 INVESTMENTS (3 Credits)
An introduction to the field of investments. Modern portfolio theory is treated in depth and provides the basis for a clear understanding of the Capital Asset Pricing model and Arbitrage Pricing Theory. Securities discussed will include common stock, preferred stock, corporate bonds, municipal bonds, warrants, convertibles and stock options.
Prerequisite(s): Take FIN-301

FIN-422 PORTFOLIO THEORY & SELECTION (3 Credits)
A survey of recent theories of risk diversification and portfolio balance. The course begins with the study of differing attitudes toward risk among investors and the implications for asset selection. Alternative valuation methods are reviewed. The problems of forming efficient portfolios and of evaluating their performance as well as those of professionally managed ones are considered. The motivation and consequence of including options, future and swaps in portfolios will also be examined.
Prerequisite(s): Take FIN-421

FIN-461 INTERNAT L FINANCIAL MGMT (3 Credits)
A study of the problems and opportunities faced by the financial manager of firms exposed to foreign exchange risk. Topics covered will include the basics of foreign exchange contracts: spot, forward, futures and options, as well as the use of these contracts for hedging, arbitrage, and speculative purpose. Investment and financing decisions in international capital markets will be discussed in detail.
Prerequisite(s): Take FIN 301

FIN-498 IND. STUDY & RESEARCH (1-6 Credits)
Research in selected topics in finance and banking under the supervision of a faculty member. Designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular offerings.
Prerequisite(s): Take FIN 301

FIN-498A Ind Stdy/Research: Financial Modeling (3 Credits)
FIN-498B IND. ST. BEHAVIORAL FINANCE (3 Credits)
Research in selected topics in finance and banking under the supervision of a faculty member. Designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular offerings.

FIN-499 SPECIAL TOPICS (1-3 Credits)
A well-defined course of study in specific topics in finance such as business cycles, public finance nonprofit finance and banking, which go beyond the regular course offerings.

FIN-499A IND. STUDY & RESEARCH (1-3 Credits)
FIN-499B FINANCIAL PLANNING (3 Credits)
FIN-499C SP TOP BANK MANAGEMENT (3 Credits)
FIN-499D STUD MANAGED INVESTMENT FUND (3 Credits)
FIN-499E PRINC OF RISK & INSURANCE (3 Credits)
FIN-499F SP TOP. FINANCIAL MODELING (3 Credits)
Prerequisite(s): Fin-301
Management (MGT)

MGT-ELEC MANAGEMENT SCIENCE ELECTIVE (3 Credits)

MGT-301 MGMT & ORGANIZA.BEHAVIOR (3 Credits)
An investigation of the major functions of management (planning, organizing, coordinating, and controlling). An in-depth analysis of concepts and theories from the behavioral sciences. Particular attention is given to theories of motivation, organizational structure and behavior, management development, group dynamics, models of authority and the management of changing organizations and how they relate to modern managerial techniques.

MGT-306 PRODUCTION OPERATION MGMT (3 Credits)
A descriptive and analytical approach to the study of production processes. Topics discussed include forecasting, inventory planning, aggregate planning and scheduling, plant layout, quality control, methods analysis and work measurements.

MGT-306H PRODUCTION MANAGEMENT (HONORS) (3 Credits)
Restrictions: RG.HON

MGT-310 INTERNATIONAL MANAGEMENT (3 Credits)
An in-depth analysis of the concepts that involve the operations of multinational corporations (MNCs) and foreign corporations and their effect on international business.

MGT-322 INTRO TO BUSINESS ANALYTICS (3 Credits)
An overview of quantitative techniques used in managerial decision analysis. Decision theory concepts are introduced with an emphasis on descriptive analytics and visualization techniques.

MGT-324 LABOR Relations (3 Credits)
A historical and analytical coverage of the relationship between organized labor and management. Topics discussed include an investigation of organized labor as a political group and as a party in the collective bargaining process.

MGT-329 INTRO TO SPORTS MANAGEMENT (3 Credits)
Study of topics currently defining the sports industry including quality and continuous improvement, teamwork, diversity, ethics and social responsibility, globalization, information technology and change.

Restrictions: RG.BSM

MGT-330 INTRO TO ENTREPRENEURSHIP (3 Credits)
An introductory exploration into the creation of new ventures. Emphasis is placed on low-capital intensive startups/businesses that students can develop while still at university. Skill sets emphasized include basic social media and content management systems (web design). Recommended for sophomores or juniors. Must have permission of instructor.

MGT-401 PERSONNEL/HUMAN RESOURCE (3 Credits)
An investigation of systems designed to manage the human resource. Specific topics include job analysis and description, recruitment, selection and placement of personnel, management development and appraisal systems, incentive systems, and wage and salary administration.

Prerequisite(s): Take MGT-301

MGT-402 ADVANCED HUMAN RESOURCE MANAGEMENT (3 Credits)
This class is an expanded investigation of concepts in the human resource area with an emphasis on systems, structuring and implementation. Specific topics include: total compensation; strategic integration; performance management; and implementation tactics.

MGT-413 BUSINESS POLICY (3 Credits)
This is the School of Business capstone course and is taken during the student’s senior year. Utilizing the case approach, the student will be required to apply concepts of management accounting, marketing, economics, and finance to case analysis. The cases will cover a large number of companies engaged in widely diversified activities. Emphasis will be placed on policy formulation and top management decision-making.

Restrictions: RG.71+

MGT-416 SOCIAL ROLES IN ORGANIZATIONS (3 Credits)
This course will use the ethics and stakeholder management framework, emphasizing business’s social and ethical responsibilities to both external and internal stakeholder groups. The ethics dimension is central to this course.

Prerequisite(s): Take MGT-301

MGT-419 ORGANIZATION DEVELOPMENT (3 Credits)
An examination of various theories, design, and practices related to developing work organizations as more effective entities. Topics discussed include organizational development models, stages of organizational growth and health, team building and conflict resolution.

Prerequisite(s): Take MGT-301

MGT-422 APPLIED MANAGEMENT SCIENCE (3 Credits)
A study of quantitative techniques applicable to management with a strong orientation towards application. The areas covered include simulation, forecasting, game theory, and advanced topics in mathematical programming, case studies and projects are employed to provide practical applications of the methods discussed.

Prerequisite(s): Take MSC-322 OR MSC-306

MGT-430 ENTREPRENEURSHIP PRACT. (3 Credits)
Practice in actual small business problem situations. Student teams will consult small businesses in the field and prepare formal recommendations for management consideration.

Prerequisite(s): Take MGT-301 MGT-330 ACCT-201 ACCT-202

MGT-431 ADV ENTREPRENEURSHIP PRACT. (3 Credits)
Advanced practice in actual small business problem situations. In cooperation with the Small Business Administration, student teams will consult with a small business in the field and prepare formal recommendations for management consideration.

Prerequisite(s): Take MGT-430
MGT-432 FAMILY BUSINESS MANAGEMENT (3 Credits)
From the small businesses started in basements to the Ford Motor Company, most firms in the world are founded, financed and controlled by families. Most students are—or will be—working in a family-controlled enterprise. Most companies have suppliers, customers and advisors (accountants, attorneys, etc.) whose firms are family-controlled. Therefore to have a thorough understanding of the business world, students should study family enterprise. This course addresses the special issues of family-controlled firms including succession, finance, governance, strategy, family dynamics, culture, philanthropy and family offices. The course will involve guest lecturers, case studies, field and research assignments and presentations regarding family enterprise. In owning, advising or working with family businesses, one must be aware of three separate dynamics: the business, the family and ownership. Each presents special professional challenges and at times, they may seem to be at cross-purposes; this is particularly relevant when examining family vs. non-family controlled firms.

MGT-446 INTNL BUSINESS CHINA STUDIES (3 Credits)
This course introduces the student to China, its culture, history, and prospects for the future, all with a business focus. The course entails travel to Shanghai, Xi'an, and Beijing. Briefings are conducted by senior management at several US and foreign businesses in China.

MGT-498 INDEPENDENT STUDY (1-3 Credits)
Research in selected topics in management sciences under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MGT-499 INDEPENDENT STUDY (1-3 Credits)
A well-defined course of study of specific topics in management sciences that go beyond the regular course offerings.

MGT-499A SPECIAL TOPICS (3 Credits)
MGT-499B CURR.ISSUES IN MANAGEMENT (3 Credits)
MGT-499B SP TOP.INTRO TO BUSINESS ANALYTICS (3 Credits)
Prerequisite(s): QMX-211

MGT-499C ENTREPRENEURSHIP (3 Credits)
MGT-499G PROB SOLVING/DECISION MAKING (3 Credits)
MGT-499H ADVANCED MANAGEMENT PROJECTS (3 Credits)
Restrictions: RG.HON

MGT-499HS OVERVIEW OF THE US HEALTHCARE SYSTEM (3 Credits)
MGT-499I ENTREPRENEURIAL LEADERSHIP (3 Credits)
MGT-499K SPECIAL TOPICS: CHANGE MANAGEMENT (3 Credits)
MGT-499L SP TOPICS: PROJECT MANAGEMENT (3 Credits)
MGT-499M SP TOP. INTRO TO NON-PROFIT ORG. (3 Credits)
MGT-499N SP TOP. MODELING & SIMULATION FOR BUSIN (3 Credits)
Prerequisite(s): MGT-301

MGT-499P INTERN'L BUSINESS FRAUD (3 Credits)
MGT-499Q SOCIAL ENTREPRENEURSHIP (3 Credits)
MGT-499R SOCIAL ENTREPRENEURSHIP FOR NON-PROFITS (3 Credits)
MGT-499S IND ST: MANAGEMENT OF SPORTS (1-3 Credits)
A well-defined course of study of specific topics in management sciences that go beyond the regular course offerings.

MGT-499T SP TOP: SUPPLY CHAIN MGMT (3 Credits)
MGT-499U SP TOP:LDRSHIP IN PROJECT MGMT (3 Credits)
Prerequisite(s): MGT-301

MGT-499W INTNL BUSINESS CHINA STUDIES (3 Credits)
MGT-499X GLOBAL LEADERSHIP & ETHICAL DECISION MAKING (3 Credits)
MGT-499Y SPECIAL TOPIC: EVENT MANAGEMENT (3 Credits)
MGT-499Z SP TOP: INTRO TO BUSINESS CONSULTING (3 Credits)

Marketing (MKT)

MKT-301 PRINCIPLES OF MARKETING (3 Credits)
An in-depth analysis of marketing functions. Topics include consumer behavior, product planning, pricing, distribution and promotion.

MKT-301H PRINC. OF MARKETING (HONORS) (3 Credits)
Restrictions: RG.HON

MKT-302 CONSUMER BEHAVIOR (3 Credits)
Examination of theory and recent research concerning buyer decision processes. Interdisciplinary studies of individual, family and organizational purchases behavior are examined. Present and potential applications for marketing in the public and private sector are discussed.

MKT-303 SALES MANAGEMENT & PERSONAL SELLING (3 Credits)
Management of the personal-selling function in both industrial and consumer goods firms. Topics include personal selling and marketing strategy; organizational of the sales force; recruiting; training, motivating, compensation and evaluating sales personnel; and controlling the sales effort.

MKT-303B SALES MANAGEMENT (3 Credits)
MKT-304 MERCHANDISING (3 Credits)
An investigation of the marketing functions particularly as they apply to the retail level of the distribution system.

MKT-305 CHANNELS OF DISTRIBUTION (3 Credits)
An analysis of the institutional structure of the channel which creates and distributes product assortment to specific markets. Special emphases on decision making in channel design, communication, leadership, conflict and control.

MKT-305B SALES MANAGEMENT (3 Credits)
MKT-306 INTEGRATED MARKETING COMMUNICATION (3 Credits)
An effective integrated marketing communication strategy is one that has one overall message, but is delivered to consumers in parts, through different channels of communication. Each channel has its own unique advantages and disadvantages, which contribute to which channels deliver which parts of a message. Students in this course will gain knowledge about how integrated marketing communications strategies are developed and implemented. This includes the relationship between an integrated marketing communications strategy and other levels of an institution’s strategy; the various roles that exist, from the marketing department to advertising agencies, and research related to development and effectiveness of an organization’s integrated marketing communications strategy.

Prerequisite(s): Take MKT-301
MKT-306C ADVERTISING (3 Credits)

MKT-307 PERSONAL SELLING (3 Credits)
Emphasis on personal and professional development, interpersonal skills, verbal and written presentation skills, understanding sales and buying processes, and developing and maintaining customer satisfaction. Topics include developing trust and rapport, consultative selling, prospecting, and territory and account management.
Prerequisite(s): Take MKT-301

MKT-308 DIGITAL & SOCIAL MEDIA MARKETING (3 Credits)
This course provides students with knowledge of how the principles of marketing are brought to digital channels. Search Engine Optimization provides students with the tools they need to manage a website’s ranking on search engines and the power of search engine analytics. This is combined with techniques to apply other marketing topics to digital channels such as social media and mobile device marketing.
Prerequisite(s): Take MKT-301

MKT-309 SPORTS MARKETING (3 Credits)
This course exposes students to special considerations necessary when applying marketing theory and practice to the area of sports. Upon successful completion of the course, students are expected to develop a better understanding of sports as a marketable commodity and to appreciate the intricacies of sports marketing.
Prerequisite(s): Take MKT-301

MKT-310 EVENT & SPONSORSHIP MARKETING (3 Credits)
This course investigates two interrelated topics: Event Marketing and Sponsorship. The first half of the course focuses attention on event marketing including event planning, generating revenue and strategic partnerships. The second half of the course focuses on sponsorship including measuring sponsorship’s effectiveness, selling sponsorships, and understanding the interrelationships between advertising, sponsorships and celebrity endorsers. In addition, ‘naturally occurring events’ such as the Super Bowl and Olympics will provide case study material for discussion.
Prerequisite(s): Take MKT-301

MKT-311 AMER. ADVERTISING FEDERATION (3 Credits)
This course is built upon a competition (National Student Advertising Competition) that is sponsored by the American Advertising Federation. Each year, a corporate sponsor provides an assignment or case study outlining the history of its product and current advertising situation. The case study is always candid and reflects a real world situation. Students must research the product and its competition, identify potential problem areas and devise a completely integrated communications campaign for the client. Each student team then ‘pitches’ its campaign to a panel of judges. Regional NSAC competitions are held each spring in 15 district throughout the U.S. The team in each district and one wild card team then advances to compete on the national level at the AAF National Conference in June. St. Bonaventure University participates in the competition.
Prerequisite(s): Take MKT-301

MKT-401 BUS. COMMUNICATION (3 Credits)

MKT-402 MARKETING RESEARCH (3 Credits)
An analytical approach to investigating consumer markets and collecting and analyzing relevant marketing information. Topics include problem definition, data collection methods, questionnaire design, editing and coding, statistical analysis and interpretation and presentation of results.
Prerequisite(s): Take MKT-301 QMX:212

MKT-402B MARKETING RESEARCH (3 Credits)

MKT-405 INTERNATIONAL MARKETING (3 Credits)
An in-depth examination of the concepts that involve the marketing operations of multinational markets, foreign corporation and the effect they have on international business.
Prerequisite(s): Take MKT-301

MKT-407 QUANTITATIVE MARKETING MODELS (3 Credits)
The application of management science techniques to marketing problems to assist the students in developing their capacity to understand, build and implement quantitative models.

MKT-410 Contemp. Issues and Topics in Marketing (3 Credits)
This course is the undergraduate marketing capstone. Each week a different topic that is important to contemporary marketing practices and theory will be covered. The course is seminar style, supported by a combination of case studies and applications of the contemporary topics by students to outside-world situations. Students will apply the knowledge they gained throughout the program to these topics and learn how they are interrelated within marketing as well as with other areas of an organization, including other business disciplines.
Restrictions: RG.86+

MKT-498 IND. STUDY (1-3 Credits)
Study of specific topics in marketing carried out independently by the student under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MKT-498A INDEPENDENT STUDY (3 Credits)

MKT-498B IND. STUDY: FASHION MARKETING (3 Credits)
Study of specific topics in marketing carried out independently by the student under the supervision of a faculty member, designed to allow the student to probe areas of specific interest that lie beyond the coverage normally found in regular course offerings.

MKT-499 SPECIAL TOPICS IN MARKETING (1-3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
Restrictions: RG.119

MKT-499A ADVANCED AM. ADVERTISING FED. (1-3 Credits)
Corequisite(s): MKT-301

MKT-499B SPORTS MARKETING (3 Credits)

MKT-499C SP.TOP:EVENT/SPONSORSHIP MKTG (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499D SP.TOP:PERSONAL SELLING (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499E SP.TOP:AMERICAN AD FEDERATION (3 Credits)
Prerequisite(s): Take MKT-301

MKT-499F INTERNET MARKETING (3 Credits)

MKT-499FM SP TOP: FOOD MARKETING (3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301

MKT-499G BLDG MARKETING WEB SITES (3 Credits)

MKT-499H SPECIAL TOPICS IN MARKETING (1-3 Credits)
A well-defined course of study in specific topics in marketing that go beyond the regular course offerings.
Prerequisite(s): Take MKT-301
Restrictions: RG.HON
### Accounting, Minor

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<td>ACCT-308</td>
<td>ADV MANAGERIAL ACCOUNTING</td>
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<tr>
<td>ACCT-310</td>
<td>INTRO. TO TAXES</td>
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<tr>
<td>ACCT-361</td>
<td>INTERM FIN REPORT I(302)</td>
</tr>
<tr>
<td>ACCT-362</td>
<td>INTERM FIN REPORT II</td>
</tr>
<tr>
<td>ACCT-401</td>
<td>ADV FINANCIAL REPORTING</td>
</tr>
<tr>
<td>ACCT-402</td>
<td>ADV. ACCOUNTING II</td>
</tr>
<tr>
<td>ACCT-403</td>
<td>INTL ACCOUNTING</td>
</tr>
<tr>
<td>ACCT-404</td>
<td>ADVANCED TAXES</td>
</tr>
<tr>
<td>ACCT-405</td>
<td>AUDITING</td>
</tr>
<tr>
<td>ACCT-420</td>
<td>FINANCIAL STMT ANALYSIS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI-301A</td>
<td>ACCOUNTING INTERNSHIP</td>
</tr>
</tbody>
</table>

Total Credits 18

**Note:** A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar’s office.

This concentration does not qualify students to sit for the New York state CPA Exam.

### Business Administration, Minor

*(for non-business majors)*
## Economics, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO-101</td>
<td>MICROECONOMIC PRINCIPLES</td>
<td>3</td>
</tr>
<tr>
<td>ECO-102</td>
<td>MACROECONOMIC PRINCIPLES</td>
<td>3</td>
</tr>
<tr>
<td>ECO-313</td>
<td>INTERMEDIATE MICROECONOMICS</td>
<td>3</td>
</tr>
<tr>
<td>ECO-314</td>
<td>INTERMED. MACROECONOMICS</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two electives of the following:  
- FIN-312 ECONOMETRICS FOR FINANCE  
- FIN-321 MONEY AND BANKING  
- FIN-401 ADV CORPORATE FINANCE  
- PHIL-331 PHILOSOPHY OF ECONOMICS  
- ECO-498 Independent Study and Research  

Total Credits: 18

**Note:** A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar's office.

## Finance, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN-301</td>
<td>CORPORATION FINANCE</td>
<td>3</td>
</tr>
<tr>
<td>FIN-321</td>
<td>MONEY AND BANKING</td>
<td>3</td>
</tr>
<tr>
<td>FIN-322</td>
<td>FINANCIAL INST. &amp; MARKETS</td>
<td>3</td>
</tr>
<tr>
<td>FIN-401</td>
<td>ADV CORPORATE FINANCE</td>
<td>3</td>
</tr>
<tr>
<td>FIN-402</td>
<td>PROBLEMS IN FINANCE</td>
<td>3</td>
</tr>
<tr>
<td>FIN-421</td>
<td>INVESTMENTS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 18

Students must fulfill prerequisites for FIN-301 and in addition must take MATH-122 or MATH-151 before beginning the requirements.

**Note:** A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar's office.

## International Business, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT-310</td>
<td>INTERNATIONAL MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>MGT-405</td>
<td>INTERNATIONAL MARKETING</td>
<td>3</td>
</tr>
</tbody>
</table>

Select six credits of any modern language at the 200 level or higher  
Select two three-credit-hour courses from among all University courses that are related to international or global studies  

Total Credits: 18

1 These courses must be approved by the minor adviser.

**Note:** A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar's office.

## Management, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT-301</td>
<td>MGMT &amp; ORGANIZA.BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td>MGT-306</td>
<td>PRODUCTION OPERATION MGMT</td>
<td>3</td>
</tr>
<tr>
<td>MGT-310</td>
<td>INTERNATIONAL MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>MGT-322</td>
<td>INTRO TO BUSINESS ANALYTICS</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two MGT electives  

Total Credits: 18

**Note:** A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar’s office.

## Marketing, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT-301</td>
<td>PRINCIPLES OF MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>MKT-302</td>
<td>CONSUMER BEHAVIOR</td>
<td>3</td>
</tr>
<tr>
<td>MKT-306</td>
<td>INTEGRATED MARKETING COMMUNICATION</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar’s office.
Select three approved marketing electives 9

Total Credits 18

Note: A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar’s office.

Quantitative Analysis for Business, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIS-420</td>
<td>INFORMATION AND DECISION SUPPORT SYSTEM</td>
<td>3</td>
</tr>
<tr>
<td>MKT-402</td>
<td>MARKETING RESEARCH</td>
<td>3</td>
</tr>
<tr>
<td>MGT-322</td>
<td>INTRO TO BUSINESS ANALTICS</td>
<td>3</td>
</tr>
<tr>
<td>FIN-312</td>
<td>ECONOMETRICS FOR FINANCE</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following approved electives: 6

- ACCT-361 | INTERM FIN REPORT I (302)   
- ACCT-362 | INTERM FIN REPORT II
- ACCT-420 | FINANCIAL STMT ANALYSIS
- FIN-401 | ADV CORPORATE FINANCE
- FIN-402 | PROBLEMS IN FINANCE

Total Credits 18

Note: A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar’s office.

Sports Management, Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO-101</td>
<td>MICROECONOMIC PRINCIPLES</td>
<td>3</td>
</tr>
<tr>
<td>FIN-333</td>
<td>THE ECON &amp; FIN OF SPORTS</td>
<td>3</td>
</tr>
<tr>
<td>MGT-329</td>
<td>INTRO TO SPORTS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>MKT-309</td>
<td>SPORTS MARKETING</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

- BI-309A | SPORTS MANAGEMENT INTERN
- BLX-310 | SPORTS AND THE LAW
- MKT-310 | EVENT & SPONSORSHIP MARKETING

Select one three-credit course from among all University courses that focuses primary attention on sports 3

Total Credits 18

Note: A 2.00 GPA is required. These courses may not be taken pass/fail and prerequisites must be met. Additional information on minors can be obtained in the office of the Dean of the School of Business or from the Registrar’s office.
SCHOOL OF EDUCATION

Dean: Lisa C. Buenaventura, Ed.D.
Administrative Assistant: Mary Beatty

Faculty
K. Andrews, Ph.D.
P. Brawdy, Ed.D.
A. Brown, Ph.D.
L. Buenaventura, Ed.D.
A. Fisher, Ed.D.
C. Gaeta, M.Ed.
R. Hauser, Ed.D.
C. Hunt, Ph.D.
D. Lawrence-Brown, Ph.D.
T. Schrenz, Ph.D.
P. Scraba, O.S.F., Ph.D.
G. Swarts, Ph.D.

The University values preparing students for the teaching professions and through the School of Education accepts the responsibility of educating qualified teachers, counselors and administrators. The School offers undergraduate and graduate students an opportunity to pursue courses of study designed to provide the academic and professional requirements for entry into the education professions.

Mission and Vision
The St. Bonaventure University School of Education prepares innovative educators at the graduate and undergraduate levels. The Franciscan commitment to social justice through respect for diversity and the dignity and worth of the individual provides the foundation for our work with university students and school communities.

Our state and nationally accredited programs integrate theory with practice and meet rigorous academic and professional standards. Our collaborative and highly qualified faculty members guide candidates on their journey of professional and personal discovery.

Shared Vision
The School of Education prepares candidates who support schools and agencies in producing learners who will be contributors to the global community. To be successful, these learners must be literate, informed contributors who possess the knowledge and skills to function within a democratic society. The School of Education strives to produce educators who can meet the challenges of the 21st century learner.

General Information
The School’s Department of Undergraduate Teacher Education administers degrees and programs that are registered in New York. Some programs lead to initial teacher certification; sport studies and childhood studies do not. Students may obtain a bachelor of science in childhood education, adolescence education with discipline concentration (7-12), inclusive education, physical education, childhood studies, or sport studies. Childhood education majors may choose an option leading to certification in Childhood Education (NY, grades 1-6), an option leading to dual certification in Childhood Education (NY, grades 1-6) and Children with Disabilities (NY, grades 1-6), or an option leading to the dual certification in Childhood Education (NY, grades 1-6) and Early Childhood Education (NY, birth-grade 2); or triple certification in Inclusive Childhood and Early Childhood Education (NY, Birth - grade 6).

Adolescence education majors may choose a discipline concentration leading to certification in English, History, Physics, Chemistry, Biology, Mathematics, and Spanish (NY, grades 7-12). Students majoring in Physical Education are eligible for certification in New York (grades K-12).

All initial teacher preparation programs require coursework in both professional education studies and an academic area. Childhood education majors must complete an academic concentration of no fewer than 30 credit hours in a liberal arts area (English, Math/Science/Technology and Social Studies are the areas that allow students to complete the program in four years). Physical education majors complete their academic concentration in biology. This preparation in the concentration provides teachers with a well-rounded liberal arts background that supports their professional studies.

All teacher preparation programs require significant field experiences prior to the student teaching semester. Placements for tutoring, Field Block internships, internships and student teaching are administered through the Office of Field Services. The two semesters of Field Block (occurring during the two semesters immediately prior to student teaching) take place in Professional Development School (PDS) sites within a 70-mile radius of the University. The University has established classrooms in those PDS sites. Students are billed for costs related to participation in the PDS semesters. Students must provide their own transportation for field experiences and student teaching. The School of Education occasionally arranges bus transportation to sites for Field Block semesters when a site is at a considerable distance from campus. When transportation is provided to a PDS site, students must use the transportation provided.

It should be noted that induction into the teaching profession takes place over time. The School of Education teacher preparation programs provide experiences that build upon each other sequentially. Students in all teacher preparation programs complete courses required for certification that may not be applicable to other programs. For this reason, it is imperative that students declare their intent to major in these programs early in their college career. Making a decision to major in one of the teacher preparation programs late in one’s college career can delay graduation.

A grade of C or better (2.0) is required in all education courses. In order for St. Bonaventure to recommend a student for NY certification a student must have a cumulative GPA of 3.0 or better and a GPA in all education courses of 3.0 or better.

Office of Educator Preparation Placement and Certification

Director: Jerry Mottet
Certification Officer: Mia O’Brien, M.Ed.
Administrative Coordinator: Laura Walker

The Office of Educator Preparation Placement and Certification compiles and tracks documentation for candidate progress through program gates, provides information on licensure exams, clearances, and professional liability and arranges for school placements. Candidates may not approach partner schools directly, but must work through this office to arrange placement. The office also has a certification officer who assists students as they process certification applications for New York and will counsel candidates seeking out-of-state certification.
Admission Requirements

Students may declare their intent to major in one of the School of Education programs upon entry to the University. Formal admission to the programs occurs after two years. Students should note the specific requirements for their program and see an education advisor early to be certain that they are pursuing the correct sequence of courses.

In the teacher preparation programs, the professional sequence (Field Block) begins in the first semester of the junior year. At this juncture, called “Gate 1”, students must meet all criteria listed below, apply for admission to a program, and complete a formal admission process before taking any courses in the Field Block sequence. A second evaluation and decision process (Gate 2) occurs prior to student teaching.

Gate 1 Requirements

<table>
<thead>
<tr>
<th>Element</th>
<th>Childhood Education or Inclusive Childhood Education or Childhood/Early Childhood Education</th>
<th>Physical Education</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Declare an academic concentration</td>
<td></td>
</tr>
<tr>
<td><strong>GPA</strong></td>
<td>Cumulative GPA of 2.8 and a major GPA of 3.0</td>
<td>Cumulative GPA of 3.0 and a major GPA of 3.0</td>
</tr>
<tr>
<td><strong>Course Work Completed</strong></td>
<td>Completion of minimum of 45 credit hours (exclusive of EDUC, ECED &amp; SPED courses)</td>
<td>Completion of minimum of 45 credit hours (exclusive of EDUC &amp; PHED courses)</td>
</tr>
<tr>
<td><strong>Field Recommendation</strong></td>
<td>Recommendation from field placements for EDUC-101, SPED-350</td>
<td>Recommendation from field placements for PHED-105</td>
</tr>
<tr>
<td><strong>Faculty Recommendation</strong></td>
<td>Two from education faculty</td>
<td>One from physical education &amp; one from education faculty</td>
</tr>
<tr>
<td><strong>Liability Coverage</strong></td>
<td>Proof of professional liability insurance coverage and appropriate police/child abuse clearances</td>
<td>Proof of professional liability insurance coverage and appropriate police/child abuse clearances</td>
</tr>
<tr>
<td><strong>Required Certifications</strong></td>
<td>• CPR for Professional Rescuer</td>
<td>• Lifeguarding</td>
</tr>
<tr>
<td></td>
<td>• Water Safety Instructor</td>
<td></td>
</tr>
</tbody>
</table>
CHILDHOOD AND EARLY CHILDHOOD EDUCATION, BS

Leading to Dual Certification in NY: Childhood Education, 1-6 & Early Childhood Education, B-2

Department Chair: Anne-Claire Fisher, Ph.D.

The Childhood Education undergraduate degree is registered in New York and accredited by NCATE, the National Council for Accreditation of Teacher Education.

Code | Title | Credits
--- | --- | ---
Elementary Education (Includes 6 credit hours of reading) | 40
Special Education | 9
Early Childhood Education | 6
Foreign Language | 6
General Education Requirements (p. 161) | 37
EDUC-099A | SAFE SCHOOLS WORKSHOP | 0
EDUC-099B | CHILD ABUSE PREVENTION | 0
EDUC-099D | CULTURAL DIVERSITY WORKSHOP | 0
EDUC-099F | Harassment, Bullying, Cyberbullying & Di | 0
EDUC-099K | EXPERIENCE IN DIVERSE ENVIRONMENTS | 0
Cognates
MATH-111 | MATHEMATICS OF ELEMENTARY EDUCATION I | 1
MATH-112 | MATHEMATICS FOR ELEMENTARY EDUCATION II | 2
American History | 3
Natural Science
Academic Concentration | 1, 2 | 30
Total Credits | 128

1 While 120 credits are required for graduation, this major requires additional credits. Up to 128 credit hours may be required for Childhood/Early Childhood Education degree. However, this may vary as courses may count in several categories.

2 3 of the 6 required credits are counted in the general education requirements

3 Counted in general education requirements

You must complete one course with diversity (D) coding and one writing intensive course (W). These courses need to be additional course, but can be ones that also fill another requirement.

General electives are needed when a major course is also fulfilling one of the General Education Distributions.

Notes:

1. Students must complete a diverse field experience (EDUC-099K) that usually occurs during Field-Block 2.
2. All students must take a writing intensive course and a diversity coded course.
3. Workshops must be completed before Field Block 1.
4. Field Block courses must be taken together in the same semester.

First Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
ENG-101 | 3 | ENG-102 | 3
MATH-111 | 3 | MATH-112 | 3
SBU-101 | 2 | Foreign Language | 3
SBU-102 | 1 | EDUC-101 or SPED 230 | 3
Foreign Language | 3 | PHIL-104 | 3
EDUC-101 or SPED 230 | 3 | THFS-101 | 3

15 | 18

Second Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
EDUC-210 | 3 | SPED-350 | 3
General Education Requirement | 3 | EDUC-270 | 3
Natural Science | 3 | LVPA Distribution | 3
Concentration Electives | 6 | Concentration Electives | 6
ECED-240 | 3
EDUC-099A | 0
EDUC-099B | 0
EDUC-099K | 0

18 | 15

Third Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
Field Block 1 | Field Block 2 | Field Block 1 | Field Block 2
EDUC-304 | 3 | EDUC-401 | 3
EDUC-310 | 3 | EDUC-425 | 3
EDUC-312X | 3 | EDUC-430 | 3
SPED-340 | 3 | Concentration Elective | 6
ECED-420 | 3
Concentration Electives | 3

18 | 15

Fourth Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
Student Teaching - Gate 2 | Natural Science w/Lab | 4
ED/ECED-490 | 5 | Philosophy Distribution | 3
EDUC-491 | 5 | Concentration Electives (if needed) | 6
EDUC-499 | 3 | THFS Distribution | 3
EDUC-099D | 0

13 | 16

Total Credits 128

Notes:
1. Field Block courses must be taken together in the same semester.
2. Field Blocks 1 and 2 must be completed prior to student teaching.
3. No additional courses may be taken during student teaching semester except the elective EDUC-499.

1. Field Block courses must be taken together in the same semester.
2. Field Blocks 1 and 2 must be completed prior to student teaching.
3. No additional courses may be taken during student teaching semester except the elective EDUC-499.
Childhood Studies, BS

Department Chair: Dr. Anne-Claire Fisher, Ph.D.

This major is designed for students who are interested in child development and education but do not intend to become classroom teachers. The major is designed based on the introductory courses in the Elementary Education major, but then incorporates a wide range of elective courses in education, arts and science. Depending on personal interests and appropriate course work, this major opens the door to careers in social work, educational assessment, educational law, school psychology, school counselling, behavioral interventions, and more.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC/SPED/CHST</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Major Electives</td>
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<td>Foreign Language</td>
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<td>6</td>
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<tr>
<td>Mathematics 1</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Studies 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Education Requirements (p. 161)</td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>38</td>
</tr>
</tbody>
</table>

Total Credits 120

1 MATH-111 and MATH-112 suggested.
2 HIST-201 or HIST-202 suggested.

Graduation Requirements for Childhood Studies

In order for students to graduate, all degree requirements must be completed satisfactorily. These include:

• Application for Graduation and Degree Audit (Registrar)
• 2.0 GPA overall
• Successful completion of internship in Childhood Studies, professional electronic portfolio and internship presentation

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>First Year</td>
<td></td>
<td>ENG-101</td>
<td>3 SPED-230</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foreign Language</td>
<td>3 THFS-101</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EDUC-101</td>
<td>3 Foreign Language</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Elective</td>
<td>3 EDUC-250</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SBU-101</td>
<td>2 General Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SBU-102</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EDUC-270</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18</td>
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<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Year</td>
<td></td>
<td>MATH-111</td>
<td>3 SPED-350 &amp; 350L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EDUC-210 or 250</td>
<td>3 EDUC-220 &amp; 220L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Education Requirement</td>
<td>3 MATH-112</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Electives</td>
<td>6 General Education Requirement</td>
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<td>General Electives</td>
<td>3</td>
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<td></td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Third Year</td>
<td></td>
<td>Major Elective</td>
<td>3 Natural Science w/Lab Distribution</td>
</tr>
</tbody>
</table>

Total Credits 123
CHILDHOOD EDUCATION, BS

NY: Childhood Education 1-6
Department Chair: Anne-Claire Fisher, Ph.D.

The Childhood Education undergraduate degree is registered in New York and accredited by NCATE, the National Council for Accreditation of Teacher Education.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elementary Education (Includes 6 credit hours of reading)</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Special Education</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>General Education Requirements (p. 161)</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td>EDUC-099A</td>
<td>SAFE SCHOOLS WORKSHOP</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099B</td>
<td>CHILD ABUSE PREVENTION</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099D</td>
<td>CULTURAL DIVERSITY WORKSHOP</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099F</td>
<td>Harassment, Bullying, Cyberbullying &amp; Di</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099K</td>
<td>EXPERIENCE IN DIVERSE ENVIRONMENTS</td>
<td>0</td>
</tr>
<tr>
<td>Code</td>
<td>Cognates</td>
<td></td>
</tr>
<tr>
<td>MATH-111</td>
<td>MATHEMATICS OF ELEMENTARY EDUCATION I</td>
<td></td>
</tr>
<tr>
<td>MATH-112</td>
<td>MATHEMATICS FOR ELEMENTARY EDUCATION II</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>American History</td>
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<td></td>
<td>Natural Science</td>
<td></td>
</tr>
<tr>
<td>Academic Concentration</td>
<td>1, 2</td>
<td>30</td>
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</tbody>
</table>

Total Credits 122

1. While 120 credits are required for graduation, this major requires additional credits. Up to 122 credit hours may be required for Childhood Education degree. However, this may vary as courses may count in several categories.
2. 3 of the 6 required credits are counted in the general education requirements.
3. Counted in general education requirements

You must complete one course with diversity (D) coding and one writing intensive course (W). These courses need to be additional course, but can be ones that also fill another requirement.

General electives are needed when a major course is also fulfilling one of the General Education Distributions.

Notes:
1. Students must complete a diverse field experience (EDUC-099K) that is usually taken during Field-Block 2.
2. All students must take a writing intensive course and a diversity coded course.
3. Workshops must be completed before Field Block 1.
4. Field Block courses must be taken together in the same semester.
5. Field Blocks 1 and 2 must be completed prior to student teaching.
6. No additional courses may be taken during the student teaching semester except EDUC-499.

Notes:
1. Field Block courses must be taken together in the same semester.
2. Field Blocks 1 and 2 must be completed prior to student teaching.
3. No additional courses may be taken during student teaching semester.
INCLUSIVE CHILDHOOD EDUCATION, BS

Leading to Dual Certification in NY:
Childhood Education 1-6/Students with Disabilities 1-6

Department Chair: Anne-Claire Fisher, Ph.D.

The Childhood Education undergraduate degree is registered in New York and accredited by NCATE, the National Council for Accreditation of Teacher Education.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elementary Education (Includes 6 credit hours of reading)</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Special Education</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>General Education Requirements (p. 161)</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>EDU-099A SAFE SCHOOLS WORKSHOP</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>EDU-099B CHILD ABUSE PREVENTION</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>EDU-099D CULTURAL DIVERSITY WORKSHOP</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>EDU-099F Harassment, Bullying, Cyberbullying &amp; Di</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>EDU-099K EXPERIENCE IN DIVERSE ENVIRONMENTS</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Mathematics of Elementary Education I</td>
<td>3</td>
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<tr>
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<td></td>
<td>American History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Natural Science</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Academic Concentration</td>
<td>1, 2</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>128</td>
</tr>
</tbody>
</table>

1. While 120 credits are required for graduation, this major requires additional credits. Up to 128 credit hours may be required for Inclusive Childhood Education degree. However, this may vary as courses may count in several categories.

2. 3 of the 6 required credits are counted in the general education requirements.

3. Counted in general education requirements.

You must complete one course with diversity (D) coding and one writing intensive course (W). These courses need to be additional course, but can be ones that also fill another requirement.

General electives are needed when a major course is also fulfilling one of the General Education Distributions.

Notes:

1. Students must complete a diverse field experience (EDU-099K) that is usually taken during Field-Block 2.
2. All students must take a writing intensive course and a diversity coded course.
3. Workshops must be completed before Field Block 1.
4. Field Block courses must be taken together in the same semester.
5. Field Blocks 1 and 2 must be completed prior to student teaching.

6. No additional courses may be taken during the student teaching semester except EDU-C99.

First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG-101</td>
<td>3</td>
<td>ENG-102</td>
<td>3</td>
</tr>
<tr>
<td>MATH-111</td>
<td>3</td>
<td>MATH-112</td>
<td>3</td>
</tr>
<tr>
<td>SBU-101</td>
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<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>SBU-102</td>
<td>1</td>
<td>EDU-101 or SPED 230</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
<td>THFS-101</td>
<td>3</td>
</tr>
<tr>
<td>EDU-101 or SPED 230</td>
<td>3</td>
<td>PHIL-104</td>
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Second Year

<table>
<thead>
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<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC-210</td>
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<td>SPED-350</td>
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<tr>
<td>&amp; 350L</td>
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<tr>
<td>HIST-201</td>
<td>3</td>
<td>SPED-430</td>
<td>3</td>
</tr>
<tr>
<td>LVPA Distribution</td>
<td>3</td>
<td>EDU-270</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>EDUC-099A</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUC-099B</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDUC-099F</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td>15</td>
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Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-304</td>
<td>3</td>
<td>EDUC-401</td>
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<td>EDUC-310</td>
<td>3</td>
<td>EDUC-425</td>
<td>3</td>
</tr>
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<td>EDUC-312X</td>
<td>3</td>
<td>EDUC-430</td>
<td>3</td>
</tr>
<tr>
<td>SPED-340</td>
<td>3</td>
<td>SPED-455</td>
<td>3</td>
</tr>
<tr>
<td>Concentration Elective</td>
<td>3</td>
<td>Concentration Elective</td>
<td>6</td>
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<tr>
<td></td>
<td>15</td>
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Fourth Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-490 or 491</td>
<td>3</td>
<td>Philosophy Distribution</td>
<td>3</td>
</tr>
<tr>
<td>EDU/SPE-490 (or ED/SPED 491)</td>
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<td>Concentration Elective (if necessary)</td>
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<tr>
<td>EDUC-499</td>
<td>3</td>
<td>THFS Distribution</td>
<td>3</td>
</tr>
<tr>
<td>EDU-099D</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>13</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Total Credits 128

Notes:

1. Field Block courses must be taken together in the same semester.
2. Field Blocks 1 and 2 must be completed prior to student teaching.
3. No additional courses may be taken during student teaching semester except the elective EDU-499A.
INCLUSIVE CHILDHOOD & EARLY CHILDHOOD EDUCATION, BS

Leading to Triple Certification in NY: Early Childhood Birth - 2/Childhood Education 1-6/Students with Disabilities 1-6

Department Chair: Anne-Claire Fisher, Ph.D.

The Childhood Education undergraduate degree is registered in New York and accredited by NCATE, the National Council for Accreditation of Teacher Education.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Elementary Education (Includes 6 credit hours of reading)</td>
<td>40</td>
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<tr>
<td>Special Education</td>
<td>9</td>
<td></td>
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<tr>
<td>Early Childhood Education</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 161)</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>EDUC-099A</td>
<td>SAFE SCHOOLS WORKSHOP</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099B</td>
<td>CHILD ABUSE PREVENTION</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099D</td>
<td>CULTURAL DIVERSITY WORKSHOP</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099F</td>
<td>Harassment, Bullying, Cyberbullying &amp; Di</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-099K</td>
<td>EXPERIENCE IN DIVERSE ENVIRONMENTS</td>
<td>0</td>
</tr>
<tr>
<td>Cognates</td>
<td></td>
<td></td>
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<tr>
<td>MATH-111</td>
<td>MATHEMATICS OF ELEMENTARY EDUCATION I</td>
<td>2</td>
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<tr>
<td>MATH-112</td>
<td>MATHEMATICS FOR ELEMENTARY EDUCATION II</td>
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<tr>
<td>American History</td>
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<td>Natural Science</td>
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<tr>
<td>Academic Concentration 1,2</td>
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<tr>
<td>Total Credits</td>
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</tbody>
</table>

1 While 120 credits are required for graduation, this major requires additional credits. Up to 128 credit hours may be required for Inclusive Childhood and Early Childhood Education degree. However, this may vary as courses may count in several categories.

2 3 of the 6 required credits are counted in the general education requirements.

3 Counted in general education requirements.

You must complete one course with diversity (D) coding and one writing intensive course (W). These courses need to be additional course, but can be ones that also fill another requirement.

General electives are needed when a major course is also fulfilling one of the General Education Distributions.

Notes:

1. Students must complete a diverse field experience (EDUC-099K) that is usually taken during Field-Block 2.
2. All students must take a writing intensive course and a diversity coded course.

3. Workshops must be completed before Field Block 1.
4. Field Block courses must be taken together in the same semester.
5. Field Blocks 1 and 2 must be completed prior to student teaching.
6. No additional courses may be taken during the student teaching semester except EDUC-499.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG-101</td>
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<td>ENG-102</td>
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<tr>
<td>MATH-111</td>
<td>3</td>
<td>MATH-112</td>
<td>3</td>
</tr>
<tr>
<td>SBU-101</td>
<td>2</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
<td>EDUC-101 or SPED 230</td>
<td>3</td>
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<tr>
<td>EDUC-101 or SPED 230</td>
<td>3</td>
<td>PHIL-101</td>
<td>3</td>
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<td>SBU-102</td>
<td>1</td>
<td>THFS-101</td>
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<tr>
<td>SPED 230, EDUC 270 also count for diversity</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
<th>Credits</th>
<th>Spring</th>
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<tbody>
<tr>
<td>EDUC-210 (Social Sciences Distribution)</td>
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<td>ECED-240</td>
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<td>HIST-201</td>
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<td>Concentration Electives</td>
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<tr>
<td>Natural Science</td>
<td>3</td>
<td>THFS Distribution</td>
<td>3</td>
</tr>
<tr>
<td>Concentration Electives</td>
<td>6</td>
<td>SPED-430</td>
<td>3</td>
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<td>EDUC-099A</td>
<td>0</td>
<td>EDUC-099B</td>
<td>0</td>
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<td>EDUC-099F</td>
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<table>
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<tr>
<th>Third Year</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Field Block 1</td>
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<td>Field Block 2</td>
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<tr>
<td>EDUC-304</td>
<td>3</td>
<td>EDUC-401</td>
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</tr>
<tr>
<td>EDUC-310</td>
<td>3</td>
<td>EDUC-425</td>
<td>3</td>
</tr>
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<td>EDUC-312X</td>
<td>3</td>
<td>EDUC-430</td>
<td>3</td>
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<tr>
<td>SPED-340</td>
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<td>Concentration Elective</td>
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<td>ECED-420</td>
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<td>End Block 1</td>
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<table>
<thead>
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<th>Credits</th>
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<tr>
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<td>Natural Science w/Lab Distribution</td>
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<td>LVPA Distribution</td>
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<td>ED/SPED-491</td>
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<td>EDUC-499</td>
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<td>Philosophy Distribution</td>
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<td>End Block 2</td>
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Total Credits 131

Notes:

1. Field Block courses must be taken together in the same semester.
2. Field Blocks 1 and 2 must be completed prior to student teaching.
3. No additional courses may be taken during student teaching semester except the elective EDUC-495A.
# MOVEMENT STUDIES, MINOR

For non-majors, the following courses constitute a Movement Studies minor:

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>PHED-105</td>
<td>EARLY CHILDHOOD MOTOR DEV.</td>
<td>3</td>
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<tr>
<td>PHED-107</td>
<td>HEALTH-RELATED FITNESS/WELLNESS</td>
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<tr>
<td>or HS-107</td>
<td>Health-Related Fitness/Wellness</td>
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<tr>
<td>PHED-201</td>
<td>INDIVIDUAL &amp; DUAL SPORTS</td>
<td>3</td>
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<tr>
<td>or PHED-301</td>
<td>TEAM SPORTS-PART 1</td>
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Select three of the following courses (in consultation with the minor adviser):

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHED-201</td>
<td>INDIVIDUAL &amp; DUAL SPORTS</td>
</tr>
<tr>
<td>PHED-208</td>
<td>PREVENTION/CARE INJURIES</td>
</tr>
<tr>
<td>PHED-301</td>
<td>TEAM SPORTS-PART 1</td>
</tr>
<tr>
<td>PHED-308C</td>
<td>THEORY/TECHNIQUES OF COACHING</td>
</tr>
<tr>
<td>PHED-309A</td>
<td>ADVENTURE EDUCATION</td>
</tr>
<tr>
<td>PHED-310</td>
<td>PHIL/PRINC INTERSCHOLASTIC ATH</td>
</tr>
<tr>
<td>PHED-311</td>
<td>PHYS ACT FOR PERSONS W DISABILITIES</td>
</tr>
<tr>
<td>PHED-313</td>
<td>WOMEN IN SPORTS</td>
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Total Credits 18
PHYSICAL EDUCATION, BS

NY: All levels
Department Chair: Paul Brawdy, Ph.D.

The physical education teacher education (PETE) program is registered in New York State to provide initial K-12 certification.

<table>
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<th>Code</th>
<th>Title</th>
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<td>Foreign Language</td>
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<td></td>
<td>Education/Special Ed</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>General Education Requirements (p. 161)</td>
<td>37</td>
</tr>
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<td></td>
<td>General Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>EDUC-099A SAFE SCHOOLS WORKSHOP</td>
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<tr>
<td></td>
<td>EDUC-099B CHILD ABUSE PREVENTION</td>
<td>0</td>
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<tr>
<td></td>
<td>EDUC-099D CULTURAL DIVERSITY WORKSHOP</td>
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</tr>
<tr>
<td></td>
<td>EDUC-099F Harassment, Bullying, Cyberbullying &amp; Di</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>EDUC-099K EXPERIENCE IN DIVERSE ENVIRONMENTS</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>121</td>
</tr>
</tbody>
</table>

1 124 credit hours required for Physical Education degree. Total of 12 hours of Biology, 4 hours meeting the General Education Requirement. See below for specific courses in program.

Graduation Requirements for All Certification Programs

In order for students to graduate and/or be recommended for certification, all graduation and/or certification requirements must be completed satisfactorily. These include:

- Application for Graduation and Degree Audit (Registrar)
- Application for Graduation (School of Education evaluation)
- 3.0 GPA overall
- 3.0 GPA in all major coursework
- Minimum grade of ‘C’ is required in all education, English, science, math, physical education or special education coursework
- Successful completion of Student Teaching
- Submission and presentation of satisfactory Professional Electronic Portfolio
- Successful completion of EDUC-099D – Cultural Diversity Workshop

Certification Requirements

In order for students to be recommended for certification, all certification requirements must be complete. Students submit their application to the Certification Officer at the University with evidence of the following:

For New York Certification:

- Completion of the Safe Schools Workshop
- Completion of the DASA (Anti-Bullying) Workshop
- An official transcript indicating degree completion
- Completion of New York State fingerprinting

First Year

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Total Credits 121

1 Students must complete one course with diversity (D) coding and one writing intensive course (W). These courses need to be additional course, but can be ones that also fill another requirement.

Note: Elementary and Secondary Methods coursework with clinical field hours must be completed prior to student teaching. These courses may be rearranged depending on semester of student teaching.

Proof of lifeguard certification required by the end of the second year.
ADOLESCENCE EDUCATION WITH DISCIPLINARY CONCENTRATIONS (7-12), BS

Leading to Certification in NY: Biology, Chemistry, English, Physics, Mathematics, Social Studies, Spanish

Program Chair: Dr. Gabriel P. Swarts

Contact Email: gswarts@sbu.edu

The Adolescence Education undergraduate degree is registered in New York and the School of Education is accredited by NCATE, the National Council for Accreditation of Teacher Education.

The major in Adolescence Education is designed for students to pursue initial secondary content-specific teacher certification in New York State (grades 7-12). The major, in collaboration with the departments within the School of Arts and Sciences, prepares students to be secondary teachers in biology, chemistry, English, mathematics, physics, social studies and Spanish. The major requires a two-day-a-week internship during the spring semester of the junior year and a semester of full-time student teaching. The student teaching semester is generally in the fall of the senior year, but accommodations can be made for spring student teaching when necessary. Students enrolled in the Adolescence Education Major will be assigned an advisor from the School of Education in addition to their content concentration-specific advisor.

### Disciplinary Concentration

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<td>EDUC-099B</td>
<td>CHILD ABUSE PREVENTION</td>
<td>0</td>
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<tr>
<td>EDUC-099D</td>
<td>CULTURAL DIVERSITY WORKSHOP</td>
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<td>EDUC-099F</td>
<td>Harassment, Bullying, Cyberbullying &amp; Di</td>
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<tr>
<td>EDUC-099K</td>
<td>EXPERIENCE IN DIVERSE ENVIRONMENTS</td>
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Total Credits: 122-131

1. Some required education and disciplinary concentration courses will count toward General Education Requirements. General electives are needed when a major/disciplinary concentration course is also fulfilling one of the General Education Distributions.

2. Disciplinary concentrations may require greater 30 credits. See concentration requirements below.

You must complete one course with diversity (D) coding and one writing intensive course (W). These courses need to be additional course, but can be ones that also fill another requirement.

### Content Coursework for Disciplinary Concentrations

Minimum of 30 credits in concentrations. Choose one of the following:

#### Biology Concentration (56 credits)

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<td>CHEM-301 &amp; CHML-301</td>
<td>ORGANIC CHEMISTRY I and ORGANIC CHEM I LAB</td>
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<td>MATH-151</td>
<td>CALCULUS I</td>
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<td>MATH-117</td>
<td>INTRODUCTION TO STATISTICS FOR NATURAL SCIENCE MAJORS</td>
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<td>PHYS-103 &amp; PHYL-103</td>
<td>GENERAL PHYSICS I and GENERAL PHYSICS I LAB</td>
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<td>General Elective: Earth Science</td>
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Total Credits: 56

#### Chemistry Concentration (56 credits)

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Total Credits: 56
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**English Concentration (33 credits)**

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**Physics Concentration (58 credits)**

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**Mathematics Concentration (41 credits)**

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**Spanish Concentration (42 credits)**

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**Field Experiences**

Students enrolled in the major in Secondary Education are required to do field experiences including observation and tutoring hours, a semester-
Adolescence Education with Disciplinary Concentrations (7-12), BS

Long Field Block (Professional Development School) Experience, and student teaching. A 30-hour diversity field experience is required.

Students interested in the Secondary Education Major should contact Dr. Lisa Buenaventura in the School of Education at (716) 375-2394. A grade of C or better (2.0) is required in all education courses. A cumulative GPA of 3.0 or better and a cumulative GPA in all education courses of 3.0 or better are required for graduation.

### First Year

<table>
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<td>PHIL-104</td>
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<td>Quantitative Literacy Distribution</td>
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### Second Year

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<tr>
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<td>EDUC-099B</td>
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### Third Year

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### Fourth Year

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<tr>
<td>Student Teaching</td>
<td>Francisca Studies/Theology</td>
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<td>EDUC-495</td>
<td>5</td>
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<td>EDUC-496</td>
<td>5</td>
<td>Natural Science w/Lab Distribution</td>
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<td>EDUC-099D</td>
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<td>EDUC-495A</td>
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<td>13</td>
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</table>

**Total Credits 122**

**Notes:**

1. Field Block courses must be taken together in the same semester.
2. Field Blocks 1 and 2 must be completed prior to student teaching.
3. No additional courses may be taken during student teaching semester except the elective EDUC-495A.
SPORT STUDIES, BS

Department Chair: Paul Brawdy, Ed.D.

The Bachelor of Science Degree in Sport Studies, offered by the Department of Physical Education, provides students with the opportunity to explore sport, movement disciplines, exercise and wellness experiences within a trans-disciplinary curriculum. Currently, four cognate areas of specialization are available within this major. Building on required coursework and discrete electives in Physical Education, these cognate areas include: Human Development and Learning, Human Movement Sciences, Personal and Team Coaching, and Sports Management. The B.S. Degree in Sport Studies prepares students to work in the wellness, recreation and sport industries as well as gain admission to a range of graduate programs supporting practice and research in human performance and the allied health professions.

<table>
<thead>
<tr>
<th>Code</th>
<th>Sport Studies</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHED-101</td>
<td>FOUNDATIONS IN PHYSICAL ACTIVITY</td>
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<tr>
<td>HS-107</td>
<td>Health-Related Fitness/Wellness</td>
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<tr>
<td>or PHED-107</td>
<td>HEALTH-RELATED FITNESS/WELLNESS</td>
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<tr>
<td>HS-309</td>
<td>NUTRITION</td>
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<tr>
<td>PHED-312</td>
<td>BIO-KINESIOLOGY</td>
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<td>HS-314</td>
<td>EXERCISE PHYSIOLOGY</td>
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<tr>
<td>HS-413</td>
<td>INTERNSHIP</td>
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<tr>
<td>SPST-415</td>
<td>PSYCHOSOCIAL ASPECTS OF HUMAN MOVEMENT AND PHYSICAL ACTIVITY</td>
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<table>
<thead>
<tr>
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<tr>
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<td>SPST-209</td>
<td>MOTOR LEARNING</td>
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<td>PHED-311</td>
<td>PHYS ACT FOR PERSONS W DISABILITIES</td>
<td>3</td>
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<tr>
<td>PSYC-414</td>
<td>SPORT &amp; EXERCISE PSYCH</td>
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<tr>
<td>PHED-414</td>
<td>SOCIAL THEORY OF SPORT</td>
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Total Credits 15

Cognate Coursework Options (choose one)

Depending on the cognate chosen, some courses may fulfill the General Education Distributions.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>SPST-209</td>
<td>MOTOR LEARNING</td>
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<tr>
<td>PHED-311</td>
<td>PHYS ACT FOR PERSONS W DISABILITIES</td>
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<tr>
<td>PSYC-414</td>
<td>SPORT &amp; EXERCISE PSYCH</td>
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<td>PHED-414</td>
<td>SOCIAL THEORY OF SPORT</td>
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Total Credits 15

Human Movement Sciences (16 credits)

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<td>&amp; CHML-101</td>
<td>and GEN CHEM I LAB</td>
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<tr>
<td>BIO-105</td>
<td>BIOLOGICAL SCIENCE I</td>
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<td>&amp; BIOL-105</td>
<td>and BIOLOGICAL SCI. I LAB</td>
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<tr>
<td>BIO-106</td>
<td>BIOLOGICAL SCIENCE II</td>
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<td>&amp; BIOL-106</td>
<td>and BIOLOGICAL SCI. II LAB</td>
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<tr>
<td>PHYS-103</td>
<td>GENERAL PHYSICS I</td>
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<td>and GENERAL PHYSICS I LAB</td>
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Total Credits 16

Personal and Team Coaching (15 credits)

This concentration will allow students to apply for NYS Temporary Coaching Certification.

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<td>PHED-308C</td>
<td>THEORY/TECHNIQUES OF COACHING</td>
<td>3</td>
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<tr>
<td>PHED-310</td>
<td>PHIL/PRINC INTERSCHOLASTIC ATH</td>
<td>3</td>
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<td>PHED-208</td>
<td>PREVENTION/CARE INJURIES</td>
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<tr>
<td>PHED-201</td>
<td>INDIVIDUAL &amp; DUAL SPORTS</td>
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<td>PHED-301</td>
<td>TEAM SPORTS-PART 1</td>
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Total Credits 15

Sports Management (15 credits)

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<tr>
<td>FIN-333</td>
<td>THE ECON &amp; FIN OF SPORTS</td>
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<tr>
<td>MGT-329</td>
<td>INTRO TO SPORTS MANAGEMENT</td>
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<td>MKT-309</td>
<td>SPORTS MARKETING</td>
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General Electives 5

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<td>BIO-101</td>
<td>FUNDAMENTALS OF BIOLOGY</td>
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<tr>
<td>&amp; BIOL-101</td>
<td>and FUNDAMENTALS OF BIOLOGY LAB (meets a General Education requirement)</td>
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<tr>
<td>BIO-211</td>
<td>HUMAN ANATOMY &amp; PHYSIOLOGY</td>
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<td>&amp; BIOL-211</td>
<td>and HUMAN ANATOMY &amp; PHYSIOLOGY</td>
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<td>BIO/BIOL-212</td>
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Total Credits 27

General Education Requirements (p. 161) 1

1 Some cognate courses may count for Gen. Ed.. If so, student must take additional electives to reach 120 credits.
2 This class may be taken as an additional credit of electives, increasing the number SPST/PHED electives to 13.
3 For Human Movement Sciences, the cognate is 16 credits.
4 Total of 12 credits of BIO.
5 Enough to get to 120 total credits.
Graduation Requirements for Sport Studies

All degree requirements must be completed satisfactorily to graduate. These include:

- Application for Graduation and Degree Audit (Registrar)
- Application for Graduation (School of Education evaluation)
- 2.0 GPA overall

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<td>PHED-101</td>
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<td>HS-107</td>
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<td>BIO-101</td>
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<td>THFS-101</td>
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<td>MATH-107</td>
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<td>Social Science Distribution</td>
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<td>Cognate Course</td>
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<tr>
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<td>SF/THEO Distribution</td>
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Total Credits 120
## SPORT STUDIES, MINOR

For non-majors, the following courses constitute a Sport Studies minor:

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<td>HS-107</td>
<td>Health-Related Fitness/Wellness</td>
<td>3</td>
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<tr>
<td>PHED-309</td>
<td>NUTRITION</td>
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<tr>
<td>PHED-414</td>
<td>SOCIAL THEORY OF SPORT</td>
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<tr>
<td>or PHED-415</td>
<td>Psycho-Social Aspects of Sports and Physical Activity</td>
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Select three of the following courses (in consultation with the minor adviser):

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<td>PHED-309A</td>
<td>ADVENTURE EDUCATION</td>
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<td>PHED-311</td>
<td>PHYS ACT FOR PERSONS W DISABILITIES</td>
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<td>PHED-312</td>
<td>BIO-KINESIOLOGY</td>
</tr>
<tr>
<td>PHED-313</td>
<td>WOMEN IN SPORTS</td>
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<tr>
<td>PHED-314</td>
<td>EXERCISE PHYSIOLOGY</td>
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Total Credits 18
SCHOOL OF HEALTH PROFESSIONS

Dean: Douglas J. Pisano, Ph.D.
Administrative Assistant: Cassandra Shreve

St. Bonaventure University created the School of Health Professions in 2016 to help meet the growing demand for skilled and caring healthcare providers.

These highly trained and educated practitioners, who make up approximately 60 percent of the U.S. health workforce, work alongside other healthcare professionals to provide a range of diagnostic, technical, therapeutic and direct patient care and support services.

Our Bachelor of Science in Public Health, a nationally recognized undergraduate major, addresses a national shortage of public health professionals that is expected to total 250,000 by the year 2020, and offers students the unique opportunity to immediately obtain a position in public health education and promotion, or enter graduate studies in public health.

Our Bachelor of Science in Health Science program provides the opportunity to study courses in medical terminology, health research methods, nutrition and epidemiology. As seniors, students will intern under professionals in their chosen health field and engage during Senior Capstone in discussions of health issues with peers and professors.

Health Science graduates will be well prepared for immediate employment in health promotion or continued graduate studies in a variety of allied health fields.

The School of Health Professions builds on St. Bonaventure’s robust undergraduate science curriculum and prehealth programs. In addition to the present bachelor’s degree programs in Public Health and Health Science, we are exploring the creation of additional clinical and non-clinical degree programs at the graduate and undergraduate level in several of the most desired and needed health fields.

Undergraduate programs under consideration will be designed to leverage the strengths of existing programs at St. Bonaventure and serve as a stepping stone to graduate study in the health professions.

Graduate and undergraduate degree programs will include offerings to future health practitioners that lead to professional licensure as well as academic and research degree programs that offer students the opportunity to develop advanced skills in management and leadership in the healthcare arena.
HEALTH SCIENCE, BS

Department Chair: Claire Watson, Ph.D.

During your undergraduate journey, you will prepare for a career in health care under the broad context of intellectual growth, academic excellence and engaged service to others. That's what sets SBU apart from other undergraduate experiences. The Bachelor of Science degree in Health Science will provide the opportunity to study courses in medical terminology, health research methods, nutrition and epidemiology. As seniors, students will intern under professionals in their chosen health field and engage during Senior Capstone in discussions of health issues with peers and professors. Graduates will be well prepared for immediate employment in health promotion or to successfully enter graduate studies in the high demand fields of allied health.

Students should select courses and sequence in close consultation with the academic advisor.

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<td>HS-101</td>
<td>INTRO TO HEALTH SCIENCE</td>
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<td>HS-102</td>
<td>MEDICAL TERMINOLOGY</td>
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<td>HS-107</td>
<td>Health-Related Fitness/Wellness</td>
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<td>HS-201</td>
<td>Research Methods in Health</td>
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<td>HS-301</td>
<td>EPIDEMIOLOGY</td>
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<td>HS-309</td>
<td>NUTRITION</td>
<td>3</td>
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<td>HS-401</td>
<td>SEMINAR: CURRENT TOPICS IN HEALTH SCIENCE</td>
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<td>HS-413</td>
<td>INTERNSHIP</td>
<td>3</td>
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<td>BIO-105</td>
<td>BIOLOGICAL SCIENCE I</td>
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<td>and BIOLOGICAL SCI. II LAB</td>
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<td>and GEN CHEM I LAB</td>
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<td>GENERAL CHEMISTRY II</td>
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<td>&amp; CHML-102</td>
<td>and GEN CHEM II LAB</td>
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<td>PHIL-338</td>
<td>HEALTH CARE ETHICS</td>
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<td>PSYC-101</td>
<td>INTRO TO PSYCHOLOGY</td>
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Select one of the following:

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<th>Title</th>
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<tbody>
<tr>
<td>BIO-211</td>
<td>HUMAN ANATOMY &amp; PHYSIOLOGY</td>
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<tr>
<td>&amp; BIOL-211</td>
<td>and HUMAN ANAT &amp; PHYSIOL LAB</td>
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<tr>
<td>&amp; BIO-212</td>
<td>and HUMAN ANATOMY &amp; PHYSIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>&amp; BIOL-212</td>
<td>and Human Anat &amp; Physiol Lab</td>
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<td>BIO-331</td>
<td>PHYSIOL &amp; ANAT OF HUMAN I</td>
<td>3</td>
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<tr>
<td>&amp; BIOL-331</td>
<td>and PHYSIOL &amp; ANAT HUMAN I LAB</td>
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<tr>
<td>&amp; BIO-332</td>
<td>and PHYSIOL &amp; ANAT OF HUMAN II</td>
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</tr>
<tr>
<td>&amp; BIOL-332</td>
<td>and Physiol &amp; Anat of Human Lab II</td>
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Health Science Electives

<table>
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<tr>
<td>BIO-291</td>
<td>GENETICS</td>
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<tr>
<td>BIO-292</td>
<td>CELL BIOLOGY</td>
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<tr>
<td>BIO-321</td>
<td>GEN. MICROBIOLOGY</td>
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<td>&amp; BIOL-321</td>
<td>and Gen Microbiology Lab</td>
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<td>BIO-371</td>
<td>BIOCHEMISTRY</td>
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<td>CHEM-301</td>
<td>ORGANIC CHEMISTRY I</td>
<td>3</td>
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<tr>
<td>&amp; CHML-301</td>
<td>and ORGANIC CHEM LAB I</td>
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General Education Requirements (p. 161)

General Electives

<table>
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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>EDUC-210</td>
<td>HUMAN DEVELOPMENT &amp; LEARNING</td>
<td>3</td>
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<tr>
<td>EDUC-250</td>
<td>ADOLESCENT DEVELOPMENT &amp; LEARNING</td>
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<tr>
<td>PHED-312</td>
<td>BIO-KINESIOLOGY</td>
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<td>HS-314</td>
<td>EXERCISE PHYSIOLOGY</td>
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<td>&amp; 314L &amp; EXERCISE PHYSIOLOGY LAB</td>
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<td>PHED-208</td>
<td>PREVENTION/CARE INJURIES</td>
<td>3</td>
</tr>
<tr>
<td>PHED-311</td>
<td>PHYS ACT FOR PERSONS W DISABILITIES</td>
<td>3</td>
</tr>
<tr>
<td>PHYS-103</td>
<td>GENERAL PHYSICS I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYL-103</td>
<td>and GENERAL PHYSICS I LAB</td>
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<tr>
<td>PHYS-104</td>
<td>GENERAL PHYSICS II</td>
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<td>and GENERAL PHYSICS LAB II</td>
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<tr>
<td>PSYC-215</td>
<td>MALADAPTIVE BEHAVIOR</td>
<td>3</td>
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<td>PSYC-330</td>
<td>HEALTH PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>SOC-408</td>
<td>HEALTH AND ILLNESS</td>
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</table>

Total Credits: 122


General electives are needed when a major course is also fulfilling one of the General Education Distributions.

Students must complete one course with diversity (D) coding and one writing intensive course (W). These courses do not need to be additional courses, but can be ones that also fill another requirement.

The following lists recommended for students who want to pursue graduate studies in Allied Health Fields. Students can use major electives and general electives for these courses.

Health Science – Social, Physical and Psychological Development Concentration (13 credit hours)

Students should research graduate programs and career goals when developing their plan of study and work in close consultation with the academic advisor.

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<tr>
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<tr>
<td>PHYS-103</td>
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<td>and GENERAL PHYSICS I LAB</td>
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<tr>
<td>SOC-101</td>
<td>INTROD. SOCIOLOGY (or other approved SOC course)</td>
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<tr>
<td>EDUC-210</td>
<td>HUMAN DEVELOPMENT &amp; LEARNING</td>
<td>3</td>
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<tr>
<td>or EDUC-250</td>
<td>ADOLESCENT DEVELOPMENT &amp; LEARNING</td>
<td>3</td>
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<tr>
<td>PSYC-215</td>
<td>MALADAPTIVE BEHAVIOR</td>
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Total Credits: 13
Health Science – Kinesiology Concentration (11 credit hours)

Students should research graduate programs and career goals when developing their plan of study and work in close consultation with the academic advisor.

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<tr>
<th>Code</th>
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<td>PHYS-103 &amp; PHYL-103</td>
<td>GENERAL PHYSICS I and GENERAL PHYSICS I LAB</td>
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<tr>
<td>PHYS-104 &amp; PHYL-104</td>
<td>GENERAL PHYSICS II and GENERAL PHYSICS LAB II</td>
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<td>EDUC-210</td>
<td>HUMAN DEVELOPMENT &amp; LEARNING</td>
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<tr>
<td>EDUC-250</td>
<td>ADOLESCENT DEVELOPMENT &amp; LEARNING</td>
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<tr>
<td>PSYC-224</td>
<td>PSYCHOLOGY OF ADOLESCENCE</td>
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<td>PSYC-225</td>
<td>ADULT DEVELP &amp; AGING</td>
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Health Science – Biomedical Concentration (10 credit hours)

Students should research graduate programs and career goals when developing their plan of study and work in close consultation with the academic advisor.

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<td>GENETICS</td>
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<td>BIO-321 &amp; BIOL-321</td>
<td>GEN. MICROBIOLOGY and Gen Microbiology Lab</td>
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<tr>
<td>CHEM-301 &amp; CHML-301</td>
<td>ORGANIC CHEMISTRY I and ORGANIC CHEM I LAB</td>
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<td>Total Credits</td>
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</table>

Graduation Requirements for Health Science

All degree requirements must be completed satisfactorily to graduate. These include:

- Application for Graduation and Degree Audit (Registrar)
- 2.0 GPA overall
  
  While a 2.0 cumulative GPA is required for graduation, students should note that admission to graduate programs in Allied Health are very competitive often requiring a cumulative GPA of 3.0 or better.

Students should select courses and sequence in close consultation with the academic advisor.

<table>
<thead>
<tr>
<th>First Year</th>
<th></th>
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<tbody>
<tr>
<td>Fall</td>
<td>Credits</td>
<td>Spring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credits</td>
</tr>
<tr>
<td>SBU-101</td>
<td>2 ENG-102</td>
<td>3</td>
</tr>
<tr>
<td>SBU-102</td>
<td>1 HS-107</td>
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<td>HS-101</td>
<td>3 BIO-106 &amp; BIOL-106</td>
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<tr>
<td>BIO-105</td>
<td>4 CHEM-102 &amp; CHML-102</td>
<td>4</td>
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<tr>
<td>BIOL-105</td>
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**Second Year**

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<thead>
<tr>
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<th>Credits</th>
<th>Spring</th>
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<tbody>
<tr>
<td>BIO-211 &amp; BIOL-211</td>
<td>4 HS-201</td>
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<tr>
<td>PSYC-101</td>
<td>3 BIO-212 &amp; BIOL-212</td>
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<td>MATH-107 or 117</td>
<td>3 THFS-101</td>
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<tr>
<td>General Elective</td>
<td>3 Historical Studies Distribution</td>
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<td>Diversity Gen Ed Course</td>
<td>General Elective</td>
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**Third Year**

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<th>Spring</th>
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<tbody>
<tr>
<td>HS-301</td>
<td>3 Franciscan Studies/Theology Distribution</td>
<td>3</td>
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<tr>
<td>HS-309</td>
<td>3 Health Science Elective</td>
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<tr>
<td>General Elective</td>
<td>3 General Elective</td>
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<tr>
<td>HS Concentration Course</td>
<td>3 HS Concentration Course</td>
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</tr>
<tr>
<td>Health Science Elective</td>
<td>3 Writing Intensive Gen Ed Course</td>
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<tr>
<td></td>
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**Fourth Year**

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<thead>
<tr>
<th>Fall</th>
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<tr>
<td>HS-413</td>
<td>3 HS-401</td>
<td>3</td>
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<tr>
<td>General Elective</td>
<td>3 General Elective</td>
<td>3</td>
</tr>
<tr>
<td>HS Concentration Course</td>
<td>3 Health Science Elective</td>
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<tr>
<td>General Elective</td>
<td>3 General Elective</td>
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<td>General Elective</td>
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<td>12</td>
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<tr>
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</table>

Total Credits 121

1. BIO-331/BIOL-331 may be substituted for BIO-211/BIOL-211 in consultation with advisor.
NURSING, BS

Founding Director, RN to B.S. in Nursing Program: Dr. Connie Perkins

The RN to B.S. in Nursing program at St. Bonaventure University is an innovative way for Registered Nurses (RNs) to achieve their goal of becoming baccalaureate prepared. The program features a hybrid approach to upper division education where students will experience both face-to-face and online offerings. In partnering with community leaders in healthcare, nursing faculty provide nursing lectures where RNs work as well as through distance technology. Students will build upon essential nursing skills such as leadership, professionalism, collaborative care, and quality care while also learning about themselves as they work to become more emotionally intelligent providers. The faculty of the RN to B.S. in Nursing program also work to introduce technologically advanced concepts to students to build consumers of the future.

Acceptance to St. Bonaventure’s RN to B.S. in Nursing program requires:

- an unencumbered RN license and current registration in the state to which you want your clinical completion hours to apply;
- an associate degree or diploma degree in nursing from a registered and accredited nursing program in New York state, or from an institution nationally accredited by the Accreditation Commission for Education in Nursing (ACEN) or the National League for Nursing Commission for Nursing Education Accreditation (NLN-CNEA);
- that you practiced nursing within the past five years, or that you graduated from an associate degree or diploma nursing program within the past five years.

Overall program goals:

- Apply technology and evidence-based practice to provide safe, quality client care to diverse populations.
- Demonstrate self-awareness, self-management, integrity, and a sense of ethical responsibility to the future of nursing.
- Engage in therapeutic and respectful communication while collaborating on healthcare teams to enhance patient satisfaction and health promotion.
- Contribute to the profession of nursing by engaging in leadership activities while assessing healthcare policy and financial influences.

<table>
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<tr>
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<td>THFS-101</td>
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<td>PHIL-104</td>
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<tr>
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<tr>
<td></td>
<td>Second Year</td>
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<td>ME-101</td>
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<td>NUR-401</td>
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<td>HS-309</td>
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<td>MATH-117</td>
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<td>General Electives</td>
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</tbody>
</table>

Total Credits 60

Students must complete one course with diversity (D) coding and one writing intensive course (W). These courses do not need to be additional courses, but are fulfilled by taking the required nursing major requirements.

Students should select courses and sequence in close consultation with the academic advisor.
PUBLIC HEALTH, BS

Department Chair: Claire Watson, Ph.D.

The Bachelor of Science in Public Health prepares students to immediately enter and find success in the public health environment (community health, health education, health and safety administration) or to pursue graduate studies in public health, public policy, health administration and associated fields.

As a public health major, you will explore the history and principles of public health, community health, public health leadership, health promotion, marketing, multicultural populations, global health and health policy, all within a rigorous curriculum.

All public health majors complete a 150-hour internship with a supervisor who is a public health professional. This provides you with practical learning experiences to complement your studies and prepares you for a smooth transition to employment or advanced studies.

The public health field relies heavily upon its practitioners and professionals to exercise sound judgment and reasoning, which is in keeping with St. Bonaventure’s Catholic Franciscan heritage. We address questions of ethics from a health perspective as part of our commitment to developing knowledgeable, skilled, compassionate and ethical individuals who value individual dignity, community inclusiveness, and service to others.

The demand for public health professionals is high and expected to remain so for some time. The number of degrees awarded in health professions fields increased by 169% from 2004 to 2014, according to the National Center for Education Statistics. What’s more, demand for bachelor’s level health professionals increased 41 percent over the past three years alone, said the Educational Advisory Board.

The U.S. Census Bureau reports that approximately 12 percent of U.S. citizens live in poverty, and the percentage of Americans without health insurance is also a concern, according to a Gallup-Sharecare Well-Being Index. As a public health major, you will be prepared to address these and other challenges facing the public health industry.

The public health major prepares students to succeed in a public health environment (e.g. community health, health education, health/safety administration) and/or pursue advanced studies in public health, public policy, health administration, biostatistics and epidemiology.

<table>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>PHB-101</td>
<td>INTRO TO PUBLIC HEALTH</td>
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<td>PHB-102</td>
<td>GLOBAL PUBLIC HEALTH</td>
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<td>PHB-201</td>
<td>BIOSTATISTICS IN PUBLIC HEALTH</td>
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<td>PHB-202</td>
<td>MARKETING &amp; COMMUNICATION IN PUBLIC HEALTH</td>
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<tr>
<td>PHB-301</td>
<td>HEALTH PROMOTION PROGRAMMING</td>
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</tr>
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<td>PHB-302</td>
<td>DIVERSITY &amp; INCLUSION IN PUBLIC HEALTH</td>
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<td>Public Health Electives</td>
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<tr>
<td>ECO-102</td>
<td>MACROECONOMIC PRINCIPLES</td>
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<td>ENV-101</td>
<td>INTRODUCTION TO SUSTAINABLE SYSTEMS</td>
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<tr>
<td>HS-309</td>
<td>NUTRITION</td>
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**List of Courses**

### Health Science Courses

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<tr>
<td>HS-201</td>
<td>Research Methods in Health</td>
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<td>HS-301</td>
<td>EPIDEMIOLOGY</td>
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<tr>
<td>HS-401</td>
<td>SEMINAR: CURRENT TOPICS IN HEALTH SCIENCE</td>
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<td>HS-413</td>
<td>INTERNSHIP</td>
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### Required Courses

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<td>PSYC-101</td>
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<td>BIO-101</td>
<td>FUNDAMENTALS OF BIOLOGY</td>
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<tr>
<td>&amp; BIOL-101</td>
<td>FUNDAMENTALS OF BIOLOGY LAB</td>
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<tr>
<td>SOC-101</td>
<td>INTROD. SOCIOLOGY</td>
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### Foreign Language

- **Foreign Language**
  - 3 credits

### General Education Requirements

- 120 credits

### First Year

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<th>Term</th>
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<th>Credits</th>
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<td>ENG-101</td>
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<td></td>
<td>BIO-101</td>
<td>4 MATH-107</td>
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<td>&amp; BIOL-101</td>
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<td>PHIL-104</td>
<td>3 THFS-101</td>
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### Second Year

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<tbody>
<tr>
<td>Fall</td>
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</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3 PHB-202</td>
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<tr>
<td></td>
<td>Gen Ed Course (LVPA Distribution)</td>
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<tr>
<td></td>
<td>PSYC-101</td>
<td>3 Gen Ed Course (Historical Studies)</td>
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<td>General Elective</td>
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### Third Year

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<th>Term</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>HS-301</td>
<td>3 PHB-202</td>
</tr>
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<td></td>
<td>PHB-301</td>
<td>3 PHB Elective</td>
</tr>
<tr>
<td></td>
<td>Gen Ed (THFS)</td>
<td>3 General Elective</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>3 Diversity Course or General Elective</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3 General Elective</td>
</tr>
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<td></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>HS-413</td>
<td>3 HS-401</td>
</tr>
<tr>
<td></td>
<td>PHB Elective #2</td>
<td>3 PHIL-338 (Gen. Ed. PHIL Distribution)</td>
</tr>
<tr>
<td></td>
<td>General Electives</td>
<td>9 General Electives</td>
</tr>
<tr>
<td>Gen Ed Course (Writing Intensive)</td>
<td>15</td>
<td>14</td>
</tr>
</tbody>
</table>

Total Credits 120
ST. BONAVENTURE FACULTY RECOGNITION AWARDS

Teaching Excellence

1982
Peter G. Marron, M.A.
Professor Emeritus, History

1983
Alfred F. Finocchio, Ph.D.
Professor, Biology

1984
Patrick M. Premo, M.S.
Professor, Accounting

1985
Richard C. Bothner, Ph.D.
Professor, Biology

1986
Ralph King, M.Ed.
Professor, Mathematics

1987
Justin W. Diehl, Ph.D.
Professor, Chemistry

1988
Patrick K. Dooley, Ph.D.
Professor, Philosophy

1989
Theodore S. Woodruff, Ph.D.
Assistant Professor, Economics

1990
Roderick Hughes, Ph.D.
Associate Professor, Philosophy

1991
Richard W. Gates, Ph.D.
Professor Emeritus, Education

1992
Alva V. Cellini, Ph.D.
Associate Professor, Modern Languages

1993
James Martine, Ph.D.
Professor, English

1994
Fr. Francis Bema, O.F.M., Ph.D.
Assistant Professor, Theology

1995
Brian C. McAllister, M.B.A.
Assistant Professor, Accounting

1996
Michael Russell, Ed.D., Assistant

1997
Fr. Robert Stewart, O.F.M., Ph.D.
Associate Professor, Theology

2000
John Kupinski, Ph.D., Associate
Professor, Biology

2002
Lauren Pringle De La Vars, Ph.D.
Associate Professor, English

2004
Carol M. Fischer, Ph.D.
Professor, Accounting

2004
Nancy C. Casey, Ed.D.,
Associate Professor, Education

2006
Dennis M. Wilkins, Ph.D.
Associate Professor, J/MC

2007
Richard H. Simpson, Ph.D.
Professor, English

2008
Patrick J. Casey, Ph.D.
Associate Professor, Education

2008
Donald J. Swanz, Esq.
Associate Professor, Accounting

2010
S. Alan Silliker, Ph.D.
Associate Professor, Education

2011
Sandra J. Mulryan, M.S.
Lecturer, English

2014
Gregory Privitera, Ph.D.
Associate Professor, Psychology

2017
Charles J. Walker, Ph.D.
Professor, Psychology

2020
Steven Nuttall, Ph.D.
Associate Professor, Philosophy

Professional Excellence

1982
Fr. Gedeon Gal, O.F.M., Ph.D.
Professor, Franciscan Institute

1983
Stephen W. Eaton, Ph.D.
Professor, Biology

1984
James Martine, Ph.D.
Professor, English

1985
Girard J. Etzkorn, Ph.D.
Professor, Franciscan Institute

1986
Edward K. Eckert, Ph.D.
Professor, History

1987
James A. Beane, Ed.D.
Professor, Education

1988
William L. Wissinger, Ph.D.
Professor, Biology

1989
Christopher C. Gerry, Ph.D.
Professor, Physics

1990
Rega Wood, Ph.D.
Professor, Franciscan Institute

1991
John Mulryan, Ph.D.
Professor, English

1992
Rao Korukonda, Ph.D.
Professor, Management Sciences

1993
Patrick Dooley, Ph.D.
Professor, Philosophy

1994
Thomas J. Schaeper, Ph.D.
Professor, History

1995
Maria Ceprano, Ph.D.
Professor, Education

1998
Anthony Farrow, Ph.D.
Professor, English

2000
Michael J. Lavin, Ph.D.
Professor, Psychology

2001
Joel Horowitz, Ph.D.
Professor, History

2003
David S. Matz, Ph.D.
Professor, Classical Languages

2005
Christopher D. Stanley
Professor, Theology

2006
Zahid Y. Khairullah, Ph.D.
Professor, Management Sciences

2007
Jeffrey A. White, Ph.D.
Professor, Classical Languages

2008
Oleg V. Bychkov, Ph.D.
Associate Professor, Theology

2010
Richard P. Reilly, Ph.D.
Professor, Philosophy

2010
Darwin L. King, M.B.A., C.P.A.
Professor, Accounting

2013
Carl Case, Ph.D.
Professor, Management

2013
Christopher Mackowski, Ph.D.
Associate Professor, J/MC

2013
Phillip G. Payne, Ph.D.
Professor, History

2016
Gregory J. Privitera, Ph.D.
Associate Professor, Psychology

2016
Kimberly Young, Psy.D.
Professor, J/MC

2019
Barry Gan, Ph.D.
Professor, Philosophy

2019
Robin Valeri, Ph.D.
Professor, Psychology

2020
Christopher Stanley, Ph.D.
Professor, Theology & Franciscan Studies

Special Service

1982
Russell J. Jandoli, Ph.D.
Professor, J/MC

1983
Fr. Cosmas Girard, O.F.M., Ph.D.
Professor, Sociology
1984
Nicholas J. Amato, M.A.
Professor, History

1985
Walter V. Budzinski, Ph.D.
Associate Professor, Physics

1986
Carl Wagner, Ph.D.
Professor Emeritus, Psychology

1987
Fr. Canisius F. Connors, O.F.M.
Professor, Classical Languages

1988
Stephen W. Gray-Lewis, Ph.D.
Associate Professor, English

1989
Fr. Timothy J. Quinn, O.F.M.
Assistant Professor, Sociology

1990
John F. Neeson, Ph.D.
Professor, Physics

1991
Leo E. Keenan, Jr., L.L.D.
Professor, English

1992
Ralph King, M.Ed.
Professor, Mathematics

1994
Fr. Joseph Dino, O.F.M.
Professor, Franciscan Institute

1995
Zahid Y. Khairullah, Ph.D.
Professor, Management Sciences

1996
Paul J. Schafer, Ph.D.
Associate Professor, Education

1998
James Martine, Ph.D.
Professor, English

2000
Eleanor English, Ed.D.
Professor, Education

2001
Larry L. Orsini, C.P.A.
Professor, Accounting

2002
David L. Carpenter, Ph.D.
Professor, Psychology

2003  Br. Basil J. Valente, O.F.M., M.S.

2004
Patrick Panzarella, Ph.D.
Associate Professor, English

2005
Joseph E. Zimmer, Ph.D.
Assistant Professor, Reading Educ.

2006
Thomas P. Delaney, Ph.D.
Professor, Counselor Education

2007
Alva V. Cellini, Ph.D.
Professor, Modern Languages

2008
Ann Tenglund, Ed.S.
Director, Friedsam Memorial Library and Vice Chair of Faculty Senate

2012
James W. Mahar, Ph.D.
Associate Professor, Finance

2013
Nancy Casey, Ph.D.
Interim Dean and Associate Professor, Education

2014
Xiao-Ning Zhang, Ph.D.
Associate Professor, Biology

2015
Guy Imhoff, Ph.D.
Professor, French and Interim Dean of Clare College

2018
Ann Tenglund, Ed.S.
Director, Friedsam Memorial Library and Vice Chair of Faculty Senate

Junior Faculty Award

2001
Neal A. Carter, Ph.D.
Assistant Professor, Political Science

2001
David E. Levine, Ph.D.
Associate Professor, Computer Science

2002
Charles E. Gannon, Ph.D.
Assistant Professor, English

2003
Oleg V. Bychkov, Ph.D.
Assistant Professor, Theology

2004
Michael W. Jackson, Ph.D.
Assistant Professor, English

2005
Christopher W. Mackowski, M.F.A.
Assistant Professor, J/MC

2006
Susan Abraham, Th.D.
Assistant Professor, Theology

2007
Mark A. Huddle, Ph.D.
Assistant Professor, History

2008
Darryl J. Mayeaux, Ph.D.
Assistant Professor, Psychology

2009
René Hauser, Ph.D.
Assistant Professor, Education

2010
Kaplan Harris, Ph.D.
Assistant Professor, English

2013
Megan Walsh, Ph.D.
Assistant Professor, English

2013
Gregory J. Privitera, Ph.D.
Assistant Professor, Psychology

2016
Gerald Boersma, Ph.D.
Assistant Professor, Theology

2019
Scott Simpson, Ph.D.
Assistant Professor, Chemistry

2019
Christine Uhl, Ph.D.
Assistant Professor, Mathematics

Adjunct Faculty Award

2005
Tracy W. Schrems, M.A.
English

2010
Jason Fox, B.M.Ed.
Music

2012
C. Kevin Brayer, M.B.A.
Marketing

2015
Edward Bysiek, M.B.A.
Accounting

2018
Evelyn Bysiek, M.S.Ed.
Mathematics
STUDENT FINANCIAL SERVICES

For Academic Year 2020-2021 (As of June 2020)

The estimated cost for a student is listed here (https://www.sbu.edu/admission-aid/freshman-admissions/scholarships-financial-aid/student-financial-services/tuition-and-fees-2020-2021/), covering the fixed charges and the standard fees. It should be noted that the academic year is divided into two semesters of 15 weeks each. The University reserves the right to alter the fees posted without notice.

Withdrawal Refund Policy

Any student who withdraws from the University must give formal notice to the University Registrar. The below policy will be used for all withdrawals from the University with the exception of medical and military service leaves. The official withdrawal date is the date that the student begins the school’s withdrawal process at the Registrar’s Office or the date that the student otherwise provided official notification.

Please refer to the Academic Policy section of this catalog for policies and procedures to formally withdraw from the University. Federal financial aid will be calculated on an earned per diem basis for the academic calendar up to the 60 percent point in the semester. Please refer to the Financial Aid section of the catalog for details.

Students may request a review of their withdraw type, date of withdraw, or calculation within 30 calendar days of issuance of the final billing from the University. Requests made after 30 days will not be reviewed.

Fall/Spring Tuition, Room and Meal Plan Refund

Tuition, room and meal plan charges will be refunded according to the following schedule:

<table>
<thead>
<tr>
<th>When</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st week</td>
<td>90% Refundable</td>
</tr>
<tr>
<td>2nd and 3rd week</td>
<td>80% Refundable</td>
</tr>
<tr>
<td>4th and 5th week</td>
<td>70% Refundable</td>
</tr>
<tr>
<td>6th and 7th week</td>
<td>50% Refundable</td>
</tr>
<tr>
<td>8th and 9th week</td>
<td>25% Refundable</td>
</tr>
<tr>
<td>Withdrawal after 9th week</td>
<td>No Refund</td>
</tr>
</tbody>
</table>

Five Week Tuition, Room and Meal Plan Refund

Tuition, room, and meal plan charges will be refunded according to the following schedule:

<table>
<thead>
<tr>
<th>When</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st week</td>
<td>90% Refundable</td>
</tr>
<tr>
<td>2nd week</td>
<td>50% Refundable</td>
</tr>
<tr>
<td>3rd week</td>
<td>25% Refundable</td>
</tr>
<tr>
<td>Withdrawal after 3rd week</td>
<td>No Refund</td>
</tr>
</tbody>
</table>

Seven Week Tuition, Room and Meal Plan Refund

Tuition, room, and meal plan charges will be refunded according to the following schedule:

<table>
<thead>
<tr>
<th>When</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st week</td>
<td>90% Refundable</td>
</tr>
<tr>
<td>2nd week</td>
<td>75% Refundable</td>
</tr>
<tr>
<td>3rd week</td>
<td>60% Refundable</td>
</tr>
<tr>
<td>4th week</td>
<td>40% Refundable</td>
</tr>
<tr>
<td>Withdrawal after 4th week</td>
<td>No Refund</td>
</tr>
</tbody>
</table>

Refund Policy for Medical or Military Leaves

A leave of absence for medical reasons is issued by the vice president for Student Affairs only upon the written advice of other appropriate professional persons and only for one semester. Tuition will be pro-rated weekly as of the date the vice president for Student Affairs approves the medical withdrawal. Room and meal plan will be pro-rated weekly as of the date the student officially begins the school's withdrawal process or the date that the student otherwise provided official notification. Students may request a review of their withdraw type, date of withdraw, or calculation within 30 calendar days of issuance of the final billing from the University. Requests made after 30 days will not be reviewed.

If a student is called to active duty, a Military Withdrawal will be granted through the University’s Registrar’s Office. Students should contact the Registrar’s Office as soon as possible to fill out the official withdrawal form. A Military Withdrawal will be granted once the University receives a copy of the official orders or a notice from the student’s Commander.

Students with a military withdrawal will not be charged tuition for the semester of withdrawal, will receive a 100% refund, and will be removed from all courses with no credit and no record of attendance on the student's transcript. Room and meal plan will be pro-rated based on the number of weeks the student was enrolled in school.

Credit Balance Refund

A credit balance remaining after all University obligations have been met, which results from state or federal financial aid, grants, or loans will be refunded within 14 days. When a Federal PLUS Loan creates a credit balance on a student’s account, this refund will be payable to the borrower. All other refunds will be payable to the student. Students may request a refund for other credit balances at any time. All refunds are subject to the Bursar’s approval. There are no refunds of fees once the semester has begun. Students have the option to sign up for direct deposit of their student refund. They may do so through their MySBU account (under Student Service tab). All University rules and regulations apply; the Bursar approves all refunds.

Refunds are issued by check on a weekly basis and mailed to the address on file. If you would like your check payable to someone other than the student or mailed to another address, the student will need to inform the Business Office in writing. Requests taken in person from the student will supersede a previous request. Refunds are available for pickup at the Business Office Monday-Friday, from 8 am – 12 pm and 1 pm – 4 pm.

Any excess credit from a payment plan over St. Bonaventure’s cost will not be refunded until the payment plan has been paid in full. Please call the Business Office to discuss the over-payment and ways to adjust the contract so you are not waiting for a refund.

Meal Plan

A student living in a residence hall MUST purchase one of the following University meal plans: Bona Platinum, Bona Gold or Bona Silver.
The ONLY exceptions are students living in Townhouses or Garden Apartments and graduate students. Unused Flex dollars and Block Meals will transfer from the fall semester to the spring semester, provided the student carries a meal plan of equal or greater value for the spring semester. At the end of the spring semester, unused Flex dollars and meals are nonrefundable and cannot be transferred to the summer or new academic year. Absolutely no reimbursements will be given for unused meal plans or Flex dollars. Residential students may not purchase Block plans.

Within the above-mentioned guidelines, students may change a University meal plan during the first ten (10) business days of each semester only. This policy is strictly enforced. Students are required to personally file the appropriate request form for a meal plan change online at bonalexpress@sbu.edu. Meal plan changes are done exclusively online. Meal plans are not in effect and cannot be used when the campus and/or residence halls are closed during specified vacation periods, Christmas or semester breaks, and spring semester midterm break. There will be no dining services available on Thanksgiving Day or Easter Sunday.

**Cancellation of Room**

A student requesting and receiving approval to break this contract prior to the opening of residence halls for the semester, or within the first two weeks of classes, does so under penalty of a $200 cancellation fee, in addition to whatever prorated costs have accumulated for the first two weeks of classes if the student did not request to cancel the contract prior to the date of opening of residence halls.

A student requesting and receiving approval to break this contract after the end of the second week of class of a semester does so under penalty of the cost of the room for the entirety of that semester, in addition to the $200 cancellation fee. In order to properly cancel this contract, student must submit a written request to the Coordinator for Residential Education and Housing for approval. Once approved, a date and time for move out will be agreed upon between the student and the Coordinator for Residential Education and Housing.

**Financial Terms**

Due dates for the payment of tuition, room, meal plan and other charges are set well in advance of the beginning of that semester. The due date for the fall semester is July 15th for returning students, and for the spring semester, January 3rd. Financial responsibility begins with registration for a course. Failure to attend will not cancel a bill. Written notice must be given to the Registrar. A student's registration is subject to cancellation if charges for a semester are not paid by the due date specified on the bill. Students who expect to receive financial aid or loans from any source should begin their application process well in advance of the beginning of any semester. Failure to settle accounts in full will prevent the student from registering for a subsequent semester, receiving academic credit, obtaining transcripts of grades, or receiving his/her diploma.

Transcript holds are placed on any student account that chooses to use monthly payment plan, GA (Graduate Assistant) payment or RA (Resident Assistant) payments. These are elective plans for which the student or families decides to enroll which grant the student a postponement for their bill. Until full payment is received by the University the student account is not considered satisfied.

The University's student account billing is done electronically with our Online Billing System. Students and parents have the ability to view their student account statements and daily student account activity online. St. Bonaventure University's e-billing system offers students and their families a safe means of receiving electronic billing statements and a secure method of making Web-based payments. We are pleased to offer Electronic Check (ACH) payments for tuition, room and meal plans, fees and incidental expenses. There will be no service fee if processed through our new Web-based system. Students enjoy having 24/7 access to student account information. To view your current statement, students should log onto https://my.sbu.edu, select student menu, and click on View/Pay Student Account.

Students are encouraged to register parents as authorized users, which gives them access to the system and e-mail notification when a new bill is available. To set up an authorized user, the student logs onto http://my.sbu.edu, selects student menu, clicks on View/Pay Student Account, and then selects Add Authorized User.

After setting up an authorized user, the student will need to provide their login and password. Once the authorized user has access, they log in through the https://commerce.cashnet.com/sbupay (https://commerce.cashnet.com/sbupay) site. There they will be prompted to reset their password.

For more information about the Online Billing system please refer to the link on https://www.sbu.edu/studentaccounts (http://www.sbu.edu/studentaccounts/) or call the Business Office at (716) 375-2100.

If you wish to submit payment by check please send to St. Bonaventure University, Business Office, P.O. Box 2448, St. Bonaventure, NY 14778. Checks should be payable to St. Bonaventure University. Please indicate the student’s account number and name on the memo line of the check. The University reserves the right to alter any fees without notice. In light of economic fluctuations, the University cannot insure that the tuition and other charges as listed will prevail throughout the student’s attendance.

Books, supplies or other items purchased at the Bookstore may not be charged to student accounts. The bookstore accepts MasterCard, VISA, Discover and American Express. The student is held financially responsible for any laboratory equipment damaged or lost due to the student's negligence, carelessness or failure to follow instructions. Students are responsible for maintaining the physical condition of their dormitory rooms as they find them. Rooms are checked for damages periodically by the Office of Housing, and students will be charged for any damage they cause. Dormitories are available for occupancy only during the time established in the academic calendar.

**Payment Plan Options**

**Payment Plans**

St. Bonaventure University understands that sometimes you need some help managing your tuition bill. That's why we offer the St. Bonaventure University tuition payment plan administered by Nelnet. Payment plans are convenient, manageable payment solutions that give you the option to pay tuition in interest-free monthly installments, rather than one lump sum. Tuition payment plans offer:

- More time to pay. Spread your tuition payments over a period of several months.
- Interest savings. Use a payment plan to make monthly payments, interest free. You can also use a plan in conjunction with traditional student loans and aid.
• Convenience. You can enroll in a plan, manage your account and make payments online, 24 hours a day.

St. Bonaventure understands that education expenses are easier to pay when spread over predictable, monthly payments. Our Interest-Free Deferred Payment Option, offered in partnership with Nelnet, Tuition Management Systems, Inc. (TMS), is an alternative to large semester payments and helps limit borrowing. Under this plan, 50% of the outstanding bill must be paid by August 15th, with the remaining balance paid in increments of 25% due September 15th, and 25% due October 15th, for the fall semester. For the spring semester, 50% of the outstanding bill must be paid by January 10th, with the remaining balance paid in increments of 25% due February 10th, and 25% due March 10th. There is a $40 administrative fee per semester to enroll in this plan. Any balance not covered by the plan should be paid upon receipt of a bill.

If your payment plan amount does not satisfy your bill, the difference should be paid, by the due date, to St. Bonaventure University. Any excess credit from the payment plan over St. Bonaventure’s cost will not be refunded until the payment plan has been paid in full. Please call the Business Office to discuss the over-payment and ways to adjust the contract so you are not waiting for a refund.

Transcript holds are placed on any student account that chooses to use monthly payment plan, GA (Graduate Assistant) payment or RA (Resident Assistant) payments. These are elective plans for which the student or families decides to enroll which grant the student a postponement for their bill. Until full payment is received by the University the student account is not considered satisfied.

Local Banks and Bona ID Card

The local banks in the Olean/Allegany area offer a variety of arrangements for students to maintain checking and savings accounts. A local checking account is suggested in order to expedite purchases locally. Merchants do not normally accept out-of-town checks. A list of banks that participate is available at the Business Office. An Automatic Teller Machine is located within the Reilly Center, adjacent to the University Bookstore, with Five Star Bank as the servicing bank. Visa, MasterCard, Discover and American Express are also accepted.

Bona ID Card

Your Bona ID card serves as your campus identification card, library card, building access card, meal plan card and as “Bona Express,” a convenient, easy, and safe way to make purchases on campus. The Bona Express feature allows students to have a separate account along with their meal plan. Meal plans are required for students living on campus.

The account allows students to have money, called “Bona Bucks,” to make purchases at the University Bookstore and dining facilities. Students may purchase Bona Bucks online at https://sbu.afford.com/PayNow (https://sbu.afford.com/PayNow/). Bona Bucks can be used in the RC Café, Café La Verna, Rathskeller, Hickey Dining Hall, Francis Dining Hall, University Bookstore and concession stands.
THE CENTER FOR ARAB AND ISLAMIC STUDIES

Director: Fr. Michael Calabria, OFM, Ph.D.

Faculty
Wardia Hart, Ed.M.
Ibrahim Zabad, Ph.D.

Mission
Inspired by the historical encounter between Francis of Assisi and the Sultan al-Malik al-Kamil in 1219, the Center for Arab and Islamic Studies at St. Bonaventure University seeks to promote an understanding of Arab and Islamic cultures, an appreciation of both their historical and contemporary significance in the global community, and respectful relations between Muslim and Christian people.

The Mission of CAIS comprises of four main areas: On campus instruction, Off-campus instruction, Community outreach and engagement, and Scholarship.

Courses
Courses in Arab and Islamic studies are offered through various academic departments. See Modern Languages (p. 240) for courses in Arabic. For other courses in Arab and Islamic studies, see: Art History (p. 283), History (p. 227), Theology (p. 277), and Women's Studies (p. 309).
Undergraduate Faculty

A

Pamina Abkowitz (2020)
Assistant Professor, Education
BA, Kent State University; MS Nazareth College; MSEd, St. John Fisher; EdD, St. John Fisher

Remah Alshinina
Assistant Professor, Computer Science
BS, King Abdul Aziz University; MS, Southern New Hampshire University; PhD, University of Bridgeport

Karie A. Altman (2020)
Assistant Professor, Biology
BS, Madonna University; PhD, Oakland University

Khaled Amira (2018)
Assistant Professor, Finance
BS, University of Tunis; MBA, George Washington University; MS, University of Maryland; PhD, George Washington University

Kathryn J. Andrews
Assistant Professor, Education
BS, University of Maryland, Okinawa, Japan, MS, Daemen College, PhD, SUNY Buffalo

Stevens K. Andrianoff (1979)
Assistant Professor, Computer Science
BA, Westminster College; MS, Syracuse University; PhD, Syracuse University

B

Joel H. Benington (1996)
Professor, Director, Bioinformatics, Biology
BA, St. John’s College; PhD, Stanford University

Assistant Professor, Sociology and Criminology
BA, Siena College; M.Div., Washington Theological Union; MA SUNY Buffalo; PhD, SUNY Buffalo

Giles Bootheway (2002)
Lecturer, Finance
MA, St Andrews University; MA Brown University

Christopher Bopp (2020)
Assistant Professor, Computer Science
BS, Rochester Institute of Technology; MS, University of Colorado Boulder; PhD, University of Colorado Boulder

Alison Bourdeau (2020)
Assistant Professor, Counselor Education
BSEd, University of Miami; MSEd, University of Miami; PhD, Florida Atlantic University

Paul J. Brawdy (1998)
Associate Professor, Chair, Physical Education
BS, Indiana University of Pennsylvania; MS, Indiana University of Pennsylvania; MS, University of Wyoming; PhD, University of Northern Colorado

Donna M. Brestensky (1996)
Assistant Professor, Chair, Chemistry
BS, Allegheny College; PhD, Indiana University

Adam M. Brown (2000)
Professor, Education
BA, SUNY Fredonia; MS, SUNY Albany; PhD, SUNY Albany

Lisa C. Buenaventura (2017)
Dean, Dean Graduate Studies, School of Education
BS, University of Washington; MEd, University of Washington; EdD, Seattle University

Anna M. Bulszewicz (2017)
Lecturer, Communication
BA, St. Bonaventure University

Oleg V. Bychkov (1999)
Professor, Theology Franciscan Studies
MA, University of Toronto; PhD, University of Toronto

C

Fr. Michael D. Calabria (2013)
Associate Professor, Director, Center of Arab and Islamic Studies, Modern Languages
BA, Johns Hopkins; MA Brown University; MLS, Columbia University; M.Div./MA, Washington Theological Union; PhD, University of Exeter

Carl J. Case (1999)
Professor, Management
BBA, St. Bonaventure University; MBA, St. Bonaventure University; PhD, University of North Texas-Denton

Alva V. Cellini (1979)
Professor, Chair, Modern Languages
BA, St. Bonaventure University; MS, St. Bonaventure University; MA, SUNY Binghamton; PhD, SUNY Binghamton

Aaron Chimbel (2018)
Dean, Professor, Communication
BS, Texas Christian University, MS, Columbia University

Charles Coate (2000)
Professor, Accounting
BS, Clemson University; MBA, Loyola College of Baltimore; PhD, University of Maryland

Tae Cooke (2012)
Lecturer, Physics
BS, Rochester Institute of Technology; MS, Buffalo State College

Fr. David B. Couturier (2014)
Associate Professor, Executive Director, Franciscan Institute, Theology Franciscan Studies
BA, St. Anselm College; M.Div., Maryknoll School of Theology; Lic Psych, Gregorian University; DMin, Graduate Theological Foundation; PhD, Graduate Theological Foundation

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Lecturer, Education

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Barry L. Gan (1984)
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Kaplan Harris (2008)
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EdD, California Coast University; MEd, Washburn University

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BS, Grace College; MS, Purdue University; PhD, Michigan State University

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Mohammed A. Jahed (2017)
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BBA, University of Chittagong; MBA, University of Chittagong; MS, Central Michigan University; PhD, Curtin University

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Stephen Jodush (2011)
Lecturer, Biology
BS, St. Bonaventure University; MS, St. Bonaventure University

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BA, Georgia State University; MS, Northwestern University

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Althea N. Kaminske (2013)
Associate Professor, Psychology
BA, Indiana University; BS, Indiana University; MS, Purdue University; PhD, Purdue University

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BS, Bucknell University; MS, Pennsylvania State University

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Daniel L. Tate (2001)
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Monica S. Thomas (2013)
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