# ATTENDING FERRUM COLLEGE

## Academic Calendar

### Fall Semester 2019

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check-in and Advising. Residence Halls Open</td>
<td>August 26, Monday</td>
</tr>
<tr>
<td>Opening Convocation (All are Expected to Attend)</td>
<td>August 27, Tuesday</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>August 28, Wednesday</td>
</tr>
<tr>
<td>Last Day to Add Classes</td>
<td>September 3, Tuesday</td>
</tr>
<tr>
<td>Last Day to Drop First 1/2 Semester Classes</td>
<td>September 11, Wednesday</td>
</tr>
<tr>
<td>Last Day to Drop Without Penalty ( Census)</td>
<td>September 13, Friday</td>
</tr>
<tr>
<td>Homecoming Weekend</td>
<td>October 12, Saturday</td>
</tr>
<tr>
<td>Last Day of First 1/2 Semester Classes; Mid-term Grades Due</td>
<td>October 16, Wednesday, (Grades due by 5:00 p.m.)</td>
</tr>
<tr>
<td>Fall Break Begins After the Last Class on Wednesday</td>
<td>October 17 through 20, Thursday through Sunday</td>
</tr>
<tr>
<td>Classes Resume and First Day of Second 1/2 Classes</td>
<td>October 21, Monday</td>
</tr>
<tr>
<td>Last Day to Add Second 1/2 Semester Classes</td>
<td>October 25, Friday</td>
</tr>
<tr>
<td>Ferrum Folklife Festival 10:00am - 5:00pm</td>
<td>October 26, Saturday</td>
</tr>
<tr>
<td>Advising Week</td>
<td>October 28 through November 1, Monday through Friday</td>
</tr>
<tr>
<td>Last Day to Drop Without Penalty 1/2 Semester Classes</td>
<td>November 1, Friday</td>
</tr>
<tr>
<td>Registration Week for 2020 Spring Semester</td>
<td>November 4 through November 8, Monday through Friday</td>
</tr>
<tr>
<td>Last Day to Drop with a &quot;WP&quot; or &quot;WF&quot;</td>
<td>November 6, Wednesday</td>
</tr>
<tr>
<td>Veteran's Day Program</td>
<td>November 11, Monday (Special Events Schedule)</td>
</tr>
<tr>
<td>Thanksgiving Break (starts after Friday classes)</td>
<td>November 23 through December 1, Saturday through Sunday</td>
</tr>
<tr>
<td>Event</td>
<td>Date</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>Classes Resume</td>
<td>December 2, Monday</td>
</tr>
<tr>
<td>Last Day of Classes</td>
<td>December 10, Tuesday</td>
</tr>
<tr>
<td>Reading Day</td>
<td>December 11, Wednesday</td>
</tr>
<tr>
<td>Exam Period (Student Leave after Their Last Exam)</td>
<td>December 12 through December 16, Friday through Monday</td>
</tr>
<tr>
<td>Final Grades Due by Noon. Residence Halls Close</td>
<td>December 17, Tuesday</td>
</tr>
</tbody>
</table>

**Winter Term (Online only)**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classes Begin, Last Day to Add, Last Day to Drop</td>
<td>December 18, Wednesday</td>
</tr>
<tr>
<td>Last Day of Classes</td>
<td>January 8, Wednesday</td>
</tr>
<tr>
<td>Grades Due by Noon</td>
<td>January 9, Thursday</td>
</tr>
</tbody>
</table>

**Spring Semester 2020**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check-in and Advising Day</td>
<td>January 14, Tuesday</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>January 15, Wednesday</td>
</tr>
<tr>
<td>Martin Luther King Day</td>
<td>January 20, Monday (Special Events Schedule)</td>
</tr>
<tr>
<td>Last Day to Add Classes</td>
<td>January 21, Tuesday</td>
</tr>
<tr>
<td>Last Day to Drop First 1/2 Semester Classes</td>
<td>January 29, Wednesday</td>
</tr>
<tr>
<td>Last Day to Drop without Penalty (Census)</td>
<td>January 31, Friday</td>
</tr>
<tr>
<td>Last Day of First 1/2 Semester Classes; Mid-term Grades Due</td>
<td>February 28, Friday (Grades due by 5:00 p.m.)</td>
</tr>
<tr>
<td>Spring Break Begins After the Last Class on Friday</td>
<td>February 29 through March 8, Saturday through Sunday</td>
</tr>
<tr>
<td>Classes Resume &amp; First Day of Second 1/2 Semester Classes</td>
<td>March 9, Monday</td>
</tr>
<tr>
<td>Last Day to Add Second 1/2 Semester Classes</td>
<td>March 13, Friday</td>
</tr>
</tbody>
</table>
### Last Day to Drop without Penalty
1/2 Semester Classes
March 20, Friday

### Advising Week
March 23 through March 27, Monday through Friday

### Registration Week for 2020 Fall Semester
March 30 through April 3, Monday through Friday

### Last Day to Drop Classes with a WP/WF
April 1, Wednesday

### Easter Break Begins After Classes on Thursday
April 10 through April 13, Friday through Monday

### Classes Resume
April 14, Tuesday

### Last Day of Classes
April 28, Tuesday

### Reading Day
April 29, Wednesday

### Final Exams
April 30 through May 4, Thursday through Monday

### Final Grades Due
May 5, Tuesday (Grades due by 9:00 a.m.)

### Baccalaureate 7:30 p.m. in Vaughn Chapel
May 8, Friday

### Commencement 10:00 a.m.
May 9, Saturday

### Three Week Terms (E-Term and May Term)

<table>
<thead>
<tr>
<th>Event</th>
<th>Date and Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check-in for E-Term and May Term</td>
<td>May 11, Monday</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>May 12, Tuesday</td>
</tr>
<tr>
<td>Last Day of Classes</td>
<td>May 29, Friday</td>
</tr>
<tr>
<td>Grades Due by Noon</td>
<td>June 2, Tuesday</td>
</tr>
</tbody>
</table>

### About Ferrum College

#### Statement of Mission

Ferrum College is a liberal arts institution founded on Christian principles and related to The United Methodist Church. It is our mission to educate students in the disciplines of higher learning and to help them be thoughtful and perceptive, to be articulate and professionally capable, and to be caring and concerned citizens of their community, nation, and world. We therefore commit ourselves to developing the whole student, both in openness to a wide range of intellectual discovery, and in the physical, spiritual, and social aspects of life.
Our campus environment supports service to others and the development of a personal code of values. Toward these ends, we expect all members of the campus community to treat each other with compassion, to respect each other’s diverse qualities and backgrounds, and to support each other in the common pursuit of insight and discovery. In all these endeavors, we encourage students, faculty, and staff to appreciate excellence and to dedicate themselves to achieving it.

**Vision Statement**

Ferrum College's unparalleled setting in Virginia's Blue Ridge Mountains forms an inspiring backdrop for a unique and multifaceted educational experience that will focus on leading edge learning opportunities, diverse outdoor, cultural, and service activities, and spiritual enrichment.

**About Ferrum College**

Founded in 1913, Ferrum College provides lifelong learning and outstanding career and graduate school preparation in a setting of rich natural beauty. A four-year, private, co-educational, liberal arts college related to the United Methodist Church, the College offers nationally recognized bachelor's degree programs ranging from business and environmental science to teacher education and criminal justice, campus-wide wireless Internet, small classes and a dedicated faculty. Surrounded by the Blue Ridge Mountains, numerous lakes, rivers state parks, and small towns brimming with regional heritage, Ferrum College is located in southwest Virginia, approximately 35 miles south of Roanoke, VA and 75 miles north of Greensboro, NC. The area boasts a wide variety of venues for outdoor recreation and cultural enrichment.

**Ferrum College Student Learning Outcomes**

The Ferrum College graduate develops integrated knowledge in the liberal arts and depth of knowledge in a chosen program of study. Learning experiences span across the five broad domains enumerated below.

1. Liberal Arts
2. Critical Thinking
3. Communication Skills
4. Competence in Academic Discipline
5. Citizenship

**History of the College**

Ferrum College was founded in 1913 as a training school for students in the southern Blue Ridge Mountains. Public education in the area was just beginning and Ferrum played an important role. To meet the changing needs of students and to respond to changes in higher education, Ferrum became a junior college in 1926 and, in 1974, began offering bachelor degrees.

Today, Ferrum is affiliated with the United Methodist Church and serves students of all faiths from across the region, the United States, and many countries. The College is regionally accredited by SACSCOC and offers over thirty programs in the liberal arts and the professions that lead to the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, and Bachelor of Social Work degrees.

**Non Discrimination Statement**
Ferrum College is an Equal Opportunity Employer and Educator. In accordance with all federal, state, and local laws, it is the policy of the College not to discriminate against any employee or applicant for employment in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, or any other aspect of employment.

**Disclaimer**

The contents of this catalog represent the most current information available at the time of publication. During the period of time covered by this Catalog, it is reasonable to expect changes to be made without prior notice. As a multi-purpose document, the content of this Catalog and the referenced policies or procedures do not create and do not constitute a contract of any kind. The Catalog describes the courses of study, explains certain rules and regulations, states the cost of attendance, contains lists of the administration and faculty and describes other aspects of campus life in effect at the time of publication. The College reserves the right to vary from them and to modify any of them at any time without prior consent or notice even during the academic year or period. Not all College policies and procedures affecting students are described in the College Catalog but are outlined and described in the Student Handbook.

**General Information**

**Accreditation**

Ferrum College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate degrees. Contact the Commission on Colleges at:

1866 Southern Lane
Decatur, Georgia 30033-4097

or call (404) 679-4500, for questions about the accreditation of Ferrum College.

Ferrum College is accredited by the University Senate of The United Methodist Church and is a member of the National Association of Schools and Colleges of the United Methodist Church.

The social work program receives accreditation visits from its national professional organization, and the teacher education program is regularly evaluated and approved by the Department of Education of the Commonwealth of Virginia.

**Notification of Rights Under FERPA**

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the day a Ferrum College official receives a request for access. Students should submit to the registrar, dean, program coordinator, or other appropriate official, written requests that identify the record(s) they wish to inspect. The Ferrum College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes is inaccurate. Students may request an amendment to a record that they believe is inaccurate. They should write the appropriate College official responsible for the record, clearly identify the part of the record they want
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. Upon request, the College may disclose education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

Notice Regarding Directory Information

The Family Educational Rights and Privacy Act (FERPA), a Federal law, requires that the College, with certain exceptions, obtain student's written consent prior to the disclosure of personally identifiable information from student education records. However, the College may disclose appropriately designated "directory information" without written consent, unless the student has advised the College to the contrary in accordance with College procedures. The primary purpose of directory information is to allow the College to include this type of information from student education records in certain College publications. Examples include:

- College Directory
- Honor roll or other recognition lists
- Graduation programs
- Sports activity sheets
- News/publicity releases

Directory information, which is information that is generally not considered harmful or an invasion of privacy if released, can also be disclosed to outside organizations without the student's prior written consent.

If a student does not want Ferrum College to disclose directory information from their education records without prior written consent, he or she must submit written notification, by September 15th for the Fall semester or by January 31st for the Spring semester, to the:

Office of the Registrar
Ferrum College
P.O. Box 1000
Ferrum, VA 24088

The College has designated the following information as directory information:

- Name
- Legal home permanent address
• Hometown
• High school attended
• Previous or future institutions of study
• Parents/Guardians’ names and hometowns
• Photograph or video clip
• Dates of attendance
• Class year
• Program of study (major and/or minor)
• Degrees, honors, and awards received
• Grade point average, in recognition of academic achievement
• Research or special curricular projects
• Athletic information (as provided on athletic bio form)
• Participation in officially recognized activities

No other information will be made available unless the student gives Ferrum College written permission to release information to specific individuals regarding academic progress, student conduct, and financial services. Students wishing to waive their right under FERPA can complete an Education Record Release Form. Forms are available online and in the Office of Student Affairs and the Office of the Registrar.

**Student Accountability Records**

The Office of Student Life has the responsibility of maintaining judicial records of all documented violations of the Student Handbook. These records are maintained for a period of three years from the time a student graduates or leaves Ferrum College. Records of a disciplinary suspension or failure to complete sanctions will be kept for a period of ten years. If a student is judicially expelled from Ferrum College the records are kept indefinitely. The Office of Student Life will not release any information concerning a student's disciplinary record to any individual or agency outside the College without the prior written consent from the student unless the records are subpoenaed or unless the release is otherwise required or allowed by law.

IMPORTANT NOTE: Under Virginia state law, a Respondent suspended for, expelled for, or withdrawing from the College while under investigation for a violation involving Sexual Violence, suspension, expulsion, or withdrawal will be prominently noted on the Respondent's academic transcript. The notation shall be removed from the Respondent's academic transcript if they 1) completes the term of the suspension and all accompanying sanctions and 2) has been determined to be in Good Standing.

**Undergraduate Admissions**

Prospective students and their parents are cordially invited to visit Ferrum College. Appointments for interviews and tours of the campus may be arranged by calling the Office of Admissions, which is located in the Spilman-Daniel House, at (540) 365-4290 or 1-800-868-9797 or online at admissions.ferrum.edu/experience-ferrum/visit/. Staff are available weekdays for campus tours at 10:00 a.m. and 2:00 p.m., and by appointment, on Saturdays at 10:30 a.m., except during holiday weekends.

**Admissions Standards**

To be accepted as full-time degree candidates, applicants must meet the following qualifications: graduate from an accredited high school with a standard or advanced studies diploma, receive a high school equivalency certificate based on the GED, or complete a home-school curriculum comparable to that required for high school graduation. When the Admissions Committee is reviewing an applicant for admission it considers the following: courses taken in high school,
grades in courses recommended for admission to Ferrum College, extracurricular activities, SAT or ACT scores, recommendations, admissions interview (if required), and other information available relevant to the applicant’s academic or disciplinary record.

**Recommended High School Preparation**

Students applying to Ferrum College should have completed the recommended number of years suggested for each of the following courses:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Required Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>World Language</td>
<td>3</td>
</tr>
<tr>
<td>History Social Science</td>
<td>4</td>
</tr>
<tr>
<td>Fine Arts or Career and Technical Ed.</td>
<td>1</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>4</td>
</tr>
<tr>
<td>Health and Physical Ed.</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics (Algebra II or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Economics and Personal Finance</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Ferrum College is willing to consider students whose preparation does not include all of these subjects. Personal interviews are not required for all students. However, the Admissions Committee may require an interview for students who have not completed the recommended number of academic courses, lack the appropriate GPA or standardized test scores, or to supplement the information on their application. The results of the interview will be used in the admissions decision.

**When to Apply for Admission**

Fall – Candidates for the fall semester at Ferrum College may apply for admission upon completion of their junior year of high school.

Spring – Candidates for the spring semester should apply at least thirty days prior to the beginning of the spring term (see Academic Calendar).

**How to Apply for Admission**

Visit www.ferrum.edu to apply online or request a paper application by calling 1-800-868-9797, or in writing to the Office of Admissions. Applications should be sent to the Office of Admissions with a nonrefundable fee of $25 to:

Office of Admissions, Spilman-Daniel House
Ferrum College
P.O. Box 1000
Ferrum, VA 24088-9000

Applicants should:

1. Request that an official transcript of his/her secondary school record be sent to the Office of Admissions. This interim record will be used in making the admissions decision. Upon graduation from high school, applicants must request a final transcript be sent certifying graduation with a standard or advanced studies diploma.
2. Request that the results of Scholastic Assessment Test (SAT) or the American College Testing (ACT) be sent to the Office of Admissions.

College Entrance Test

Applicants who have completed high school during the year prior to enrollment are required to take either the Scholastic Assessment Test (SAT) or the American College Testing (ACT). This requirement may be waived in some instances (see Test Optional Admissions Policy). Information on dates and fees can be obtained from a high school guidance office or by contacting: College Board SAT Program (www.collegeboard.org), and for the American College Testing Program (ACT) (www.act.org).

How to Accept an Offer of Admission

An accepted student will give his or her intention to enroll at Ferrum College by submitting a $250 confirmation deposit. The deposit is not an additional charge, but an advance payment that will be credited to the student's account for the upcoming semester. The deposit is refundable until May 1 of the current year. Once the confirmation deposit has been paid, the student will have online access through Panther Tracks to complete next enrollment steps such as the housing survey, health forms, and class registration.

Special Admissions Categories

Test Optional Admission Program

Students with high school grade point averages of 3.0 or better who are on track to earn a minimum of a standard high school diploma may be accepted without standardized test scores assuming all other requirements for admissions are met. The Admissions Committee will evaluate the high school transcript of all students falling in this category on a case by case basis.

Admission as a Special Student

Individuals registering for fewer than 12 semester hours per term and not intending to complete a specific program of study may be admitted as special students.

Admission as a Transfer Student

Ferrum College welcomes transfer applicants and encourages them to visit the college campus. Transfer students should follow the same admissions procedure as outlined for recent high school graduates. In addition, transfer students must request that an official transcript of their college work be sent to the Ferrum College Office of Admissions. Transfer students with more than 24 hours of transfer credit may be exempt from submitting high school transcripts and college entrance tests.

Students with transferable credit will not be required to repeat equivalent course content at Ferrum College. Students must meet the number of upper level hours required for graduation by the student's major program and the College. Only credit hours, not grade point average, transfer to Ferrum College. Therefore, transfer credit does not enter into the grade point average for honors.
Transfer students will receive full consideration for housing, financial aid, and campus co-curricular activities. Transfer students may be eligible for academic merit scholarships.

**Transfer Credit Policy**

Ferrum College will accept credit, towards graduation, for all courses which correspond to those offered at the College, have been passed with a "C" or better grade, and have been earned from an appropriately accredited college or university. However, degree recipients must complete at least 32 of their last 64 credit hours at Ferrum College. At least 50% of the hours required for major(s) and minor(s) must be completed at Ferrum College. Transfer students are required to meet the Liberal Arts requirements, including writing intensive, speaking intensive, experiential requirements, and E-Term requirements, as outlined in the catalog. All non-developmental courses above 100 level which have been passed with a "C" or better grade, will be accepted for credit as necessary for graduation. Students with transferable credit will not be required to repeat equivalent course content at Ferrum College. Students must meet the number of upper level hours required for graduation by the student's major program and the College. Only credit hours, not grade point average, transfer to Ferrum College, therefore transfer credit does not enter into the grade point average.

**Guaranteed Admissions Agreement for Virginia Transfer Students**

When a student who has graduated under the Guaranteed Admissions Agreement from an accredited Virginia Community College with an Associate of Arts degree, an Associate of Science degree, or an Associate of Arts and Sciences degree, transfers to Ferrum College, Ferrum College agrees that the student has satisfied the Liberal Arts Requirements portion of its graduation requirements. This agreement requires the student to have earned a grade of "C" or higher in courses applicable to the transfer-oriented degree program, have earned a minimum of 60 transferable credits, and hold an overall cumulative GPA of 2.0 or higher prior to enrollment at Ferrum College. The student must satisfy all other graduation requirements including writing intensive, speaking intensive and E-term. (See Graduation Requirements for specific guidelines.)

Similar agreements may be established with other community and junior colleges in the mid-Atlantic states. To receive additional information or a listing of these cooperative institutions, please contact the Ferrum College Office of Admissions.

**Readmission for Former Ferrum Students**

Former Ferrum College students who have not enrolled at the College for a semester or more may apply for readmission. Interested students must submit a written request for readmission to the Dean of Admissions. Students must provide official transcripts if they have taken any courses at another institution since leaving Ferrum.

Readmission petitions from students who are not in good academic standing will be reviewed by Provost and the Dean of Admissions. Full-time students who leave Ferrum College and are readmitted will be subject to meeting the requirements of the current catalog (refer to the Academic Policies section of this catalog under the "Regulations Governing Catalog" for additional clarification).

**Admission as an International Student**
International students desiring admission to Ferrum College are encouraged to apply as early as possible. Students must submit:

- Copy of high school transcript translated into English.
- Score results from the Test of English as a Foreign Language (T.O.E.F.L.) exam, or the English Proficiency Exam (E.P.E.), International English Language Testing System (I.E.L.T.S.), or the Scholastic Aptitude Test (S.A.T.) are required.
- Personal Financial Information sheet (provided by the Office of Admissions).
- The I-20 Form is provided only after a student is accepted and has demonstrated the ability to pay tuition, room, board, and fees, and has submitted the $250 confirmation deposit indicating intent to enroll.

Veterans' Credit

Credit for educational experiences in the Armed Forces may be granted, based on recommendations of the American Council of Education. Credits are recorded for students after completion of at least one semester (15 or more semester hours) of resident study at Ferrum with a GPA of 2.0 or better. Veterans must provide their DD-214 along with any military transcripts to the Office of the Registrar.

Advanced Placement (AP), International Baccalaureate (IB), and College Level Examination Program (CLEP)

Course credit as well as advanced standing may be earned through the Advanced Placement Test Program of the College Entrance Examination Board, the International Baccalaureate Program, and the College Level Examination Program. Advanced Placement credit may be granted upon presentation of a score of 3 or above. International Baccalaureate credit may be granted upon presentation of a score of 5 or above. Ferrum College will accept scores from the College Level Examination Program (CLEP) in accordance with the recommendations set forth by the American Council of Education (scores of 50 or higher are required). Official scores directly from the testing centers are required before credit can be granted.

New Student Programs

Orientation

Ferrum College offers several programs to ensure that all new students begin their college careers as smoothly and pleasantly as possible. All new freshmen, transfer students and their families are introduced to the campus during one of the Panther PAWS days scheduled during the summer. Connection Weekend, an orientation program for all freshmen and transfer students, is offered immediately prior to the opening of fall semester. All incoming students must attend PAWS and Connection Weekend which include advising, orientation, activities, and social gatherings. Following the advising sessions on Sunday before classes begin, new students will gather together in Vaughn Chapel for the New Student Convocation.

Financial Information

Tuition expenses and the availability of financial aid are considerations of immense importance to both students and their parents. Ferrum College endeavors to ensure that qualified and deserving applicants are given adequate financial
assistance, enabling them to meet their educational goals. The College has an extensive program of financial aid, including loans, scholarships, grants, and a highly successful work-study program.

Charges for students entering in the 2019-2020 academic year are listed below.

**Expenses (2019-2020)**

**First Semester**

New students are required to make a $250 confirmation deposit within thirty (30) days of acceptance (refundable until May 1).

Returning students must indicate their intention of enrolling for the next academic year by remitting a confirmation deposit of $250 prior to March 15 (refundable until May 1).

**Second Semester**

New students are required to make a $250 confirmation deposit within thirty (30) days of acceptance (non-refundable).

*Note: Financial aid will not cover confirmation deposits.*

**Fees**

**FULL-TIME TUITION (12-19 credit hours)**

<table>
<thead>
<tr>
<th>Per Semester</th>
<th>Resident Student</th>
<th>Day Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$17,625</td>
<td>$17,625</td>
</tr>
<tr>
<td>Room/Board* (Average Rate)</td>
<td>$5,715-$6,730</td>
<td></td>
</tr>
</tbody>
</table>

Students are billed prior to the beginning of each semester.

Payment in full for the first semester is due by August 1, 2019.

Payment in full for the second semester is due by December 15, 2019.

*Varies per housing option and does not include apartment style accommodations.

**Part-Time Tuition/Fees**

One to six hours: $710 per credit hour

Seven to eleven hours: $985 per credit hour
### Special Instructional Fees (In addition to tuition)

<table>
<thead>
<tr>
<th>Fee</th>
<th>Fee Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Art Course Fees</strong></td>
<td>$125</td>
</tr>
<tr>
<td>(Courses include: ART 101, ART 102, ART 104, ART 130, ART 204, ART 206, ART 215, ART 217, ART 222, ART 228, ART 230, ART 304, ART 306, ART 317, ART 322, ART 324, ART 328, ART 330, ART 332, ART 398, ART 406, ART 411, ART 417, ART 428, ART 430, ART 450, ART 497, and ART 498)</td>
<td></td>
</tr>
<tr>
<td><strong>Criminal Justice Fee</strong></td>
<td>$35</td>
</tr>
<tr>
<td>(Courses include: CJU 250 and CJU 330)</td>
<td></td>
</tr>
<tr>
<td><strong>Criminal Justice Fee (CJU 335)</strong></td>
<td>$50</td>
</tr>
<tr>
<td><strong>Dance (Private) Lesson Fee</strong></td>
<td>$350</td>
</tr>
<tr>
<td>(Courses include: DAN 122, 123 to 422, 423)</td>
<td></td>
</tr>
<tr>
<td><strong>No one may take more than 3 credits of private lessons per semester.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>HHP Course Fee</strong></td>
<td>$10</td>
</tr>
<tr>
<td>(Courses include: HHP 100 and HHP 206)</td>
<td></td>
</tr>
<tr>
<td><strong>Music (Private half hour) Lesson Fee</strong></td>
<td>$350</td>
</tr>
<tr>
<td>(Courses include: MUS 151, 152 to 451, 452)</td>
<td></td>
</tr>
<tr>
<td><strong>Pre-Professional Health Fee (PPH 100)</strong></td>
<td>$75</td>
</tr>
<tr>
<td><strong>No one may take more than 3 credits of private lessons per semester.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Music (Private one hour) Lesson Fee</strong></td>
<td>$710</td>
</tr>
<tr>
<td>(Courses include: MUS 161, 162 to 461, 462)</td>
<td></td>
</tr>
<tr>
<td><strong>No one may take more than 3 credits of private lessons per semester.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Teacher Education Field Placement Fees</strong></td>
<td>$135</td>
</tr>
<tr>
<td>(Courses include: EDU 310, EDU 311, EDU 312, EDU 330, EDU 352, EDU 353, EDU 355, EDU 358 and EDU 360)</td>
<td></td>
</tr>
<tr>
<td><strong>Teacher Education Student Teaching Fee (EDU 404)</strong></td>
<td>$350</td>
</tr>
<tr>
<td><strong>2 Credit Lab Science Fee</strong></td>
<td>$35</td>
</tr>
</tbody>
</table>
(Courses include: ASI 120, SCI 101, SCI 102, SCI 121, SCI 122, SCI 123, SCI 124, SCI 125, SCI 126, SCI 127, SCI 128, SCI 129, SCI 130, SCI 132, SCI 134, SCI 135, SCI 136, SCI 137, SCI 139, SCI 140, SCI 141, SCI 143, SCI 144, and SCI 145)

4 Credit Lab Science Fee | $75

(Courses include: AGS 218, AGS 314; CRP 301, CRP 315, ASI 201, ASI 201, ASI 302, ASI 316, ASI 414, BIO 105, BIO 109, BIO 110, BIO 111, BIO 201, BIO 202, BIO 203, BIO 254, BIO 255, BIO 301, BIO 303, BIO 305, BIO 306, BIO 311, BIO 330, BIO 419, CHM 103, CHM 104, CHM 105, CHM 301, CHM 302, CHM 305, CHM 315, CHM 331, CHM 425, EPD 202, ESC 102, ESC 103, ESC 202, ESC 203, ESC 209, ESC 321, ESC 190, 290, 390 or 490, ESC 405 ESC 413, ESC 421, GEO 220, GEO 221, HOR 321, HOR 410, HOR 411, HOR 415, HOR 418, PHY 201, PHY 202, PHY 203, PHY 204, SCI 201, SCI 244 and SCI 250)

Theatre Course Fees | $100

(Courses Include: THA 202, THA 402 and THA 498)

Theatre Course Fees | $150

(Courses Include: THA 203 and THA 300)

Audit Fee (per credit hour) | $350

Course Overload (per credit hour over 19 hours) | $710

Independent Study (per credit hour) | $710

Internship (If enrolled in other classes) | $175

Internship (If not enrolled in other classes) Minimum Fee | $1,200

| OR Per Credit Hour Rate | $240

**Miscellaneous Fees**

Car Registration (for Day Students only) | $35

Credit by Examination Fee | $290

Graduation Fee (covers regalia, diploma and ceremony) | $125

Health Education Fee (if applicable) | $20

Late Check-In Fee | $125
New Student Fee | $85
---|---
Replacement of ID Cards | $45
Student Activities Fee | $115

E-Term Cost – Fees may apply.

Overload fees will be waived if caused by E-Term course.

The college reserves the right to make necessary adjustments in the fees at any time.

The annual estimated cost for books is $800.

**Payment Options**

Students are billed prior to the beginning of each semester. Full payment or payment arrangements to cover the entire balance (tuition and fees less financial aid) is required before participating in any college program and before attending any class.

**Check or Money Orders**

The Office of Student Accounts is open Monday – Friday from 8:00 a.m. to 5:00 p.m. You may contact Student Accounts via e-mail at stacctm@ferrum.edu or by phone at 1-800-868-9797 and choosing option #7. The College will receive checks or money orders at the address below:

Ferrum College  
Attn: Accounting Department  
P.O. Box 1000  
Ferrum, VA 24088

Include your name and Ferrum College account number (ID number) on your payment.

**Payment Plan, Credit Cards, ACH Debit to Checking**

If you would like to make a payment in full or in part via the phone or web, you may do so by a variety of methods through our payment partner, Tuition Management Systems.

Whether you can pay in full or need help, we highly recommend you consider paying your education expenses monthly by using the Interest-Free *Monthly Payment Option* offered by Tuition Management Systems. The payment plan is available for a small enrollment fee and includes personal account service and counseling, automated account information 24 hours a day, and access to your account through their website.

Visit Tuition Management Systems web site www.ferrum.afford.com for more information on payment options, free education payment counseling, and the many ways they can help you afford education. You can also call them toll free at 1-800-722-4867.

**Overload Fee**
Students may not register in excess of 19 hours of credit per semester without the approval of the Provost of the College. If such approval is granted, the student will be charged $710 per semester hour for all coursework in excess of 19 hours.

Special Categories

Senior citizens, age 65 and older, may attend Ferrum classes tuition-free; however, this policy does not apply to Continuing Education, or special programming.

Financial Policies

All returning students must indicate their intention of enrolling for the next academic year by remitting a confirmation deposit of $250 prior to March 15.

Payment of Tuition, General Fees, Room and Board

Students are billed prior to the beginning of each semester for tuition, general fees, and room and board. Student accounts, after adjustments for Financial Aid, are required to be paid in full prior to the student attending classes, or participating in other college activities. (Exceptions: See the Monthly Payment Option above.) For payments other than cash or credit cards, Ferrum College reserves the right to withhold services including, but not limited to, transcripts, grades and diplomas until method of payment has successfully been processed through all financial institutions. Payments in full for the first semester is due by August 1 and payment for the second semester is due by December 15. Payments not received by the due date are subject to a monthly late payment penalty.

All inquiries concerning financial aid and student loans should be made to the Office of Financial Aid in advance. Prompt return of accurate and complete documents will prevent delays in financial aid processing.

In order to avoid a delay in receiving academic information, all costs and charges must be paid in full prior to the student leaving college due to graduation, transfer, or any other reason. Any student who has an account balance will not receive a transcript, certificate, diploma, or any other academic information. Furthermore, should formal collection become necessary to collect past due accounts, an additional 50% of the unpaid balance plus all attorneys' fees will be assessed by the collection agency for expenses incurred in the collection process. Accounts placed with a collection agency will also be reported to a credit bureau.

Institutional Withdrawal Policy

(Also applies to moving off campus during the semester)

<table>
<thead>
<tr>
<th>SCALE 1: Students who withdraw will be charged for tuition, room and board, based on the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>During the first week of the semester</td>
</tr>
<tr>
<td>During the second week of the semester</td>
</tr>
</tbody>
</table>
During the third week of the semester | 60%

<table>
<thead>
<tr>
<th>Scale 2: In situations involving suspension or expulsion of a student, charges for tuition, room and board will be based on the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>During the first week of the semester</td>
</tr>
<tr>
<td>During the second week of the semester</td>
</tr>
<tr>
<td>During the third week of the semester</td>
</tr>
<tr>
<td>During the fourth week of the semester</td>
</tr>
</tbody>
</table>

The above scale does not apply to fees. Fees are charged at 100%.

After four weeks of any semester, no adjustments to any charges will be given.

Title IV aid recipients will have their financial aid pro-rated if they withdraw within the first 60% of the semester.

The College’s complete refund policy is published on the Ferrum College website under Financial Aid.

Ferrum College Grant Funds Policy

Ferrum College funds (Merit Grants, FC Grants, FC Scholarship, Endowments, etc.) will be prorated based on SCALE 1 as listed above (i.e. Students will receive 10% of total Ferrum College Grant funds if they are charged 10% and withdraw in the first week).

Students who are expelled/suspended will receive institutional funds based on SCALE 2 (i.e. If a student is suspended in the first week, the student will be charged 20% and only receive 10% of their institutional funds).

Return of Title IV Funds Policy (Federal Withdrawal Policy)

When a student withdraws from coursework before 60% of the semester is completed (regardless of the reason for the withdrawal), a Title IV refund is required by federal laws. Title IV refund refers to all Title IV Federal funds such as Pell Grants, SEOG Grants, Iraq/Afghanistan Service Grant, TEACH Grants, Perkins Loans, Stafford Loans (Subsidized and Unsubsidized), and PLUS Loans.

For example, if a student withdraws on day 30 of a semester that is 100 days in length they essentially would be eligible for 30% of any Title IV aid received. (30/100=30%). This percentage is the amount of Title IV aid “earned” by the student.

Assume that the student received an award of $2,775 Pell Grant, $350 SEOG, $750 Perkins, and $1,742 in Subsidized Stafford Loan for a total of $5,617 (both Federal and Institutional funds) for the semester.

<p>| Total Federal Funds | $5,617 |</p>
<table>
<thead>
<tr>
<th>Multiplied by percentage earned</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Funds Earned to Date</td>
<td>$1,685.10</td>
</tr>
</tbody>
</table>

Essentially the institution would be required to refund $3,931.90 (5,617 - $1,685.10) of the students Title IV federal aid since this portion is considered "unearned" by the student. The student would then be responsible for payment of these funds and any other outstanding balance to Ferrum College after the adjustments have been made.

Only aid that is final and disbursed is eligible to be included in the total Title IV and Ferrum Grant aid figure (i.e. if a student fails to sign a promissory note and their Stafford Loan has not yet been disbursed, the student may no longer be eligible for those funds).

**Additional Information**

A student who earns a grade of "F" or "I" in all classes at the end of the semester is also subject to the Return of Title IV policy. Professors will be e-mailed to verify the last date of attendance in class and the withdrawal calculation will be completed based on the professor's certification of the last day the student attended the course.

Note: If a student withdraws before census date (3rd Friday of classes or end of drop/add period) they will lose eligibility for state aid such as the Virginia Tuition Assistance Grant (VTAG) and the College Transfer Grant.

**Financial Assistance**

Ferrum makes every effort to provide financial aid consistent with individual and family ability to meet college expenses. A comprehensive assistance program, including campus jobs, scholarships, grants, and loans, is available. The majority of Ferrum College's financial aid programs are awarded to students based on financial need (in combination with other factors such as academic achievement) as determined by the results of the Free Application for Federal Student Aid (FAFSA). Award programs which are not based on need include the Virginia Tuition Assistance Grant (VTAG), Ferrum College Merit Grants and Scholarships, Unsubsidized Stafford Loans, PLUS (Parent) Loans and alternative educational loans available through lending institutions.

**Financial Aid Application Procedure**

1. New students will automatically receive aid information from the Ferrum College Office of Admissions; returning students should use the FSA ID information created in the previous academic year.
2. The Free Application for Federal Student Aid (FAFSA) may be completed after October 1 for the next academic year. Priority deadline for receipt of the FAFSA results is February 1 for all students. Students whose forms are received after the priority deadline will still be considered for financial aid. However, self-help (loans or work) may constitute a larger portion of the aid "package" and/or the student may receive less total aid.
3. If a student is chosen for verification of income information, appropriate documentation must be provided to the Office of Financial Aid before financial aid is disbursed or made final.
4. The Financial Aid staff will develop a financial aid package which may be composed of gift aid (grants, scholarships) and/or self-help aid (work-study, loans). The student is notified of his or her financial assistance in a letter or through the institutions online web portal.
5. New aid applications must be completed for each academic year. In order to receive financial assistance, students must be enrolled at Ferrum College and must be making satisfactory academic progress (see Academic Policies section).
6. There may be some instances when a student's financial aid award must be adjusted. Students will receive a revised award letter if adjustments have been made to their aid award.
7. Financial aid is usually disbursed in 50% increments, i.e. 50% in the fall term and 50% in the spring term.

Financial General Policies

There will be no refund of tuition, fees, charges, or any other payments made to Ferrum College in the event that the operation of the College is suspended at any time as a result of any act of God, strike, riot, disruption, or for any other reason beyond the control of the College.

Change of Residency Status

Students who move off campus, whether with a relative or in their own residence, will see a change in their financial aid award. Merit awards, including Ferrum College Scholarships and Grants, as well as Federal or Ferrum College need based financial aid awards will be reduced for students who move off campus. Students should make an appointment to speak with a staff member in the Office of Financial Aid to learn about changes to their financial aid award should you wish to live off campus.

Grants/Scholarships

The following programs are sources of gift assistance. They do not require repayment. Students must maintain Satisfactory Academic Progress as designated in the College Catalog to be eligible for any Title IV Federal Grant Programs.

Virginia Tuition Assistance Grant (VTAG)

Virginia residents who plan to attend Ferrum College may be eligible for a grant from the Commonwealth of Virginia which is not based on financial need. The program was established to assist Virginia's private colleges in reducing the tuition gap between private and public in-state colleges. Grant funding is determined by the General Assembly and amounts reflected on the student and award letter are estimated and not guaranteed. For the academic year 2019-2020, the estimated grant amount is $3,400. Applications are available from the college in the spring of each year. The completed application must be returned to the Office of Financial Aid by July 31. Late VTAG applications may be submitted, but awards for late applicants are contingent on available funds remaining after the July 31 applicants are funded. Students may receive VTAG funds for a maximum of eight semesters (undergraduate).

Federal Pell Grant

Pell is a federal aid program which provides grants to high need students. Students apply by submitting the FAFSA. The maximum Pell Grant award is based on Federal allocations approved by Congress.

Federal Supplemental Educational Opportunity Grant (FSEOG)
The FSEOG was also established under the federal aid programs. By completing the FAFSA, each student with exceptional financial need is automatically considered for an award. Priority is given to Federal Pell Grant recipients.

**Praise and Worship Team Scholarships**

This scholarship is offered up to 10 students per year who are interested in a leadership position within Spiritual Life and worship experience. Recipients will consist of musicians, singers, dancers, worship leaders, and individuals to assist in managing sound and promotion, singing and/or playing contemporary Christian music. Recipients of the scholarship will receive $1600 per year ($800 per semester). An in-person or videotaped audition may be required and can be arranged through the Office of Spiritual Life. This scholarship is renewable annually if the recipient maintains a minimum 2.3 GPA and fulfills all other requirements of the scholarship.

**Academic Scholarships**

Ferrum College offers academic scholarships based upon scholastic achievement for entering students. Only full-time students are eligible for academic scholarships. Students who are eligible for more than one scholarship, or other tuition scholarships, such as Tuition Remission or certain Veteran's Benefit programs receive only the higher award.

**Ferrum College Scholarships and Merit Grants**

Entering freshmen and transfers seeking their first bachelor's degree are eligible for Ferrum College Scholarships or Merit Grants ranging of $13,500 to $23,500. To be eligible, students must be accepted for admission. Students must have a GPA of 2.0 or higher (on a 4.0 scale) and a minimum combined SAT score of at least 810 on the two-part test or 15 on ACT test. Amounts will vary, depending upon the above criteria, as well as resident/commuter status and transfer credits. Awards are renewable for each year of enrollment as long as students maintain Satisfactory Academic Progress. Resident students who elect to move off campus will see their Ferrum College merit scholarships and grants reduced. Students are advised to consult with staff in the Office of Financial Aid should they wish to live off campus.

**Work Programs**

All students who complete the FAFSA and are eligible for need-based aid are considered for a work-study position. Approximately 825 students are awarded work-study positions each year, working approximately 6-13 hours per week in areas as diverse as faculty and administrative offices, food services, the library, science labs, facility services and maintenance shops. Funds are provided by the Federal Work Study Program (FWS) and various college programs. Federal Work Study funds are paid directly to the student for hours completed. Students must maintain satisfactory Academic Standards in order to be eligible for any Title IV Federal Work Study funds.

**Loan Programs**

Loan funds borrowed from the following programs are to be repaid according to the guidelines established in the federal regulations. By accepting a loan, the student has a legal responsibility to repay the loan amount as instructed in the promissory note. In fulfilling this obligation, the student establishes an early credit reference. Students must maintain satisfactory Academic Progress in order to be eligible for any Title IV Federal Loan Program.

**Federal Stafford Loans**
Stafford Loans are available at an interest rate as determined by higher education legislation. A student with financial need as determined by the FAFSA can apply for the Subsidized Stafford Loan. Interest does not accrue until graduation, and loan repayment is deferred during college enrollment. A student without financial need (also determined by the FAFSA) can apply for the Unsubsidized Stafford Loan, but the interest accrues during college enrollment. Repayment commences six months after the student leaves school or drops to less than half-time. Students must complete a Stafford Loan Master Promissory Note and Stafford Loan Entrance Counseling as first time borrowers to apply for the Stafford Loan. Returning students who have borrowed previously do not need to complete any additional loan information. Students who wish to decline all or a portion of their Stafford Loan should reject their eligible loan program on Panther Portal or by contacting the Office of Financial Aid by phone, e-mail, or written notification. Each student will be informed of his/her rights and responsibilities through the entrance counseling session.

**Federal PLUS Parent Load**

PLUS is a federal loan program designed to assist parents of dependent undergraduate students. Parents must provide documentation which verifies the dependency status of the student. A credit check is required. Interest rates are determined by July 1 of each year by the Federal Government. Repayment commences within sixty days after the loan funds are disbursed. Loan eligibility is determined by subtracting the student's expected financial aid from the total estimated cost of attending Ferrum. PLUS applications are available in the Office of Financial Aid or online. Deferment options are available for PLUS Loans. Parents should contact COD (Common Originals and Disbursements) at 1-800-557-7394 for information on deferment request.

**Alternative Loans**

In addition to federal loans, financing options are available through banks and other educational lending institutions. These programs are designed to assist students and their families who may not be eligible for federal grant and loan funds or who need additional educational financing. Most alternative loans require that the borrower/cosigner demonstrate credit-worthiness. These alternative loan institutions may be searched for online.

**United Methodist Aid Programs**

United Methodist students are encouraged to apply for assistance from The United Methodist Church programs which are described below.

Students can visit: [http://www.ferrum.edu/financial-aid/united-methodist-programs/](http://www.ferrum.edu/financial-aid/united-methodist-programs/) or visit the Office of Financial Aid for more information.

- **United Methodist Scholarships**
  Ferrum nominates qualified applicants annually for the United Methodist Scholarships available through the General Board of Higher Education and Ministry in Nashville, Tennessee. Financial need, superior grades, and church membership are factors in selection. A FAFSA must be filed to determine eligibility. Scholarships, available to four or five students each year, range from $500 to $1,000. Nominations end on June 1.

- **United Methodist Foundation Scholars Program**
  The purpose of the scholars program is to value-centered education in a Christian context in United Methodist-related institutions through scholarship assistance to United Methodist students. This program provides four (4) $1,000 scholarships at each United Methodist-related precolligate school and four-year college or university. One scholarship is earmarked for an entering first-year college student, one for a second-year college student, one for a third-year college student, and one for a rising college senior. Nominations end on June 1.
• Other United Methodist Programs
  Many other United Methodist programs are available. Ferrum College participates in the Triple and Double Your Dollar for Scholars Programs, as well as the United Methodist Leadership Scholars Program. United Methodist scholarship information is available online at www.gbhem.org or www.umhef.org. Students may be limited to one United Methodist program per year.

• United Methodist Student Loans
  Low interest student loans are available through the United Methodist Church Office of Loans and Scholarships in Nashville, Tennessee. Need is a factor, as are grades, church membership, and U.S. citizenship. Loan applications are available from the General Board of Higher Education and Ministry at www.gbhem.org.

Endowed Scholarships

Numerous endowed scholarships are available to students who demonstrate financial need. Endowed scholarships may be used to replace the Ferrum Grant during the academic year. There are no additional applications for endowed scholarships.

Veteran's Benefits

Ferrum College complies with all policies set forth by the United States Department of Veterans Affairs, including the Veterans Benefits and Transition Act of 2018, Section 3679 of title 38. Veteran's Benefits may be available for active duty or retired military students, or dependents of military personnel. All educational benefit information as stated below, as well as current application process and payment amounts are available online at www.gibill.va.gov.

IMPORTANT NOTE: Students who are reviewing other programs not specifically listed below should contact the Veteran's Benefit Administrator at Ferrum College to ensure that the institution participates in those potential military benefit programs.

Receipt of Chapter 33/Yellow Ribbon Veteran's Benefits and Financial Aid

Students who will receive Chapter 33 Veteran's Benefits/Yellow Ribbon will have their Financial Aid evaluated based on receipt of this program. Students from Virginia are required to complete a Military Benefits Worksheet that will assist the Financial Aid Office in determining the student's eligibility for available state funding (i.e. Virginia Tuition Assistance Grant etc.). All Veteran's Benefit programs and all funds received must be counted as financial aid when determining eligibility for state funds.

Students will be allowed to utilize their merit scholarships (Ferrum Scholarships/Merit Grants, Ferrum Transfer Scholarships/Grants) to assist with paying up to 50% of room and board costs. All other institutional need based grants (Ferrum Grant, Endowments and Foundation Grants, and some other federal or state need based programs will not be available to students receiving this benefit.

Students who qualify for Pell Grants may use those funds to assist with costs for the academic year. Student Loans are also available for students to assist with additional costs if necessary.

Receipt of Other Veteran's Benefit Programs and Financial Aid

Students who receive other Veteran's Benefit programs (Chapters 31, 35, 1606, 1607, etc.) will have their financial aid reviewed to determine eligibility for state funding (i.e Virginia Tuition Assistance Grant). All Veteran's Benefit programs must be counted as financial aid when determining eligibility for state funds. The Financial Aid Office will use the most current payment rates on the GI Bill website to determine eligibility for state funding. To learn more on eligibility, transfer of benefits, payment rates, etc. students and parents should visit the GI Bill Website.
To Apply

- The student must have applied for Admission to Ferrum College. Students can apply online at www.ferrum.edu.
- The Parent should submit the TEB (Transfer of Education Benefits) online with the Department of Defense.
- Upon approval of the benefit transfer, the student will need to apply for the education benefits (GI Bill) with the Department of Veteran's Affairs.
- Upon approval of your Veteran's Benefits, you will receive a Certificate of Eligibility from the Department of Veteran's Affairs. Forward a copy of your Certificate of Eligibility, which designates your benefit information/eligibility, to the Veteran's Benefits Certifying Official at Ferrum College, PO Box 1000, Ferrum, VA 24088.
- Students or parents with questions should contact the Veteran's Benefits Certifying Official at (540) 365-6924.

Campus Life

Ferrum College encourages and supports student participation in a wide variety of co-curricular activities designed to complement the classroom experience. The primary purpose of the Division of Student Affairs involves implementation of program opportunities which promote a balanced living and learning environment throughout the campus community. Based on this philosophy, the various offices within Student Affairs implement programs that address the developmental (social, recreational, educational, and cultural) and personal needs of each student. As a result, education becomes more than facts learned from a textbook or lecture; it also includes the development of the total person.

Student Activities

Students can develop leadership potential, leadership skills and career related learning while having fun by participating in co-curricular activities and intramural programs sponsored by the Office of Student Leadership and Engagement. The purpose of the Office of Student Leadership and Engagement is to personalize and broaden educational experiences. Students, faculty, and staff are involved in all aspects of the development and implementation of programs and leadership opportunities. The utilization of student ideas, input, and involvement is vital to the development of a balanced programming format.

Spiritual Life

Your college experience will include times of educational learning, physical health and wholeness, and faith formation. As an institution of higher education related to the United Methodist Church, Ferrum College seeks to create an environment that fosters this integration of body, mind, and spirit. Students from all faith traditions are encouraged to participate in outreach, fellowship, and programs that develop spiritual growth as well as celebrate their faith. At the heart of this exploration is a deeper understanding of how our individual and collective beliefs shape and impact our future and world. In this spirit, the Office of Spiritual Life seeks to be a sanctuary for a diverse community for the love of God and others.

Ferrum College employs a full-time Dean of the Chapel who is available to assist students with connecting to various faith exploration/formation opportunities on and off campus, offer pastoral support, and journey with you through your time at Ferrum. The Dean of the Chapel practices an open door policy in the Office of Spiritual Life (Room 108) on the lower level of Franklin Hall.
Opportunities for spiritual growth are scheduled through the Office of Spiritual Life in both the Fall and Spring Semesters. These opportunities may include but are not limited to: small group studies/discussion, service opportunities, mission trips, intentional faith formation groups, worship arts, Panther Christian Athletes, and Mu Sigma Chi (a student Christian fraternity). Vaughn Chapel Meditation Room is open throughout the week offering a place for quiet reflection on your spiritual journey.

Gathering as a faith community for worship has always been a vital part of our spiritual formation experience. Ferrum College offers a weekly interdenominational worship service in Vaughn Chapel. The Sunday evening service is grounded in the Christian tradition, is student led and is open to all students, faculty, staff, and the local community.

In addition to Ferrum College’s worship service, faith based churches/communities representing most of the major faith traditions are located in the surrounding area. The Office of Spiritual Life can assist students in finding a church or faith community of their choice.

Your college experience is a unique combination of body, mind, and spirit. Ferrum College Campus Ministries offers that space for you to seek to unite, as John Wesley once said, "knowledge and vital piety", learning and holiness. For more information contact the Dean of the Chapel at (540) 365-4285 or the Office of Spiritual Life (Room 108) Franklin Hall.

**Fine Arts and Cultural Series**

Ferrum College offers a wide variety of cultural programs for the campus and the community. The art department offers student, faculty, and guest artist exhibits throughout the academic year. The College offers visiting lecture series including the Wright Lectures. The music department offers recitals by guest artists and faculty.

The Ferrum College Blue Ridge Institute & Museum features gallery exhibitions, an annual Folklife Festival, an interactive Farm Museum, Heritage Archives, FloydFest Live & Learn, and innovative outreach programming.

**Performing Arts**

Ferrum College believes that student performances are an important element of a total education experience. The College, therefore, supports a wide variety of student performing groups, including four major theatrical productions a year, student directed 2nd stage productions, Black Mask-Improv Club, Alpha Psi Omega-the Theatre Arts National Honor Society which sponsors and develops many productions on campus, the Concert Choir, Ferrum College Chorale, the Ferrum College Marching Band including the Color Guard, the Ferrum College Mountain Winds ensemble, and other instrumental ensembles.

Many students wish to develop their talents in art, music, and theatre while at Ferrum College although they do not plan full-time careers in these fields. They may major or minor in one of the programs in the arts or select individual applied student courses to develop their talents.

**Student Government Association**

The Student Government Association (SGA) of Ferrum College is composed of currently enrolled Ferrum students. The SGA leadership is elected by the student body each spring following the guidelines and procedures outlined in the SGA Constitution and Bylaws. The SGA promotes student involvement in the governance of the College; enhances the living learning environment of the campus community through sponsoring of social, educational, cultural, and recreational programs; and provides effective communication channels between students and the College.
Clubs and Organizations

Students are encouraged to participate in one or more of the student clubs and organizations representing a wide variety of academic, social and civic interest. Membership in a campus organization enriches the educational experience, improves leadership ability, enhances academic achievement, increases career success and develops social skills. A complete listing of clubs and organizations is available at: http://www.ferrum.edu/leadershipandengagement/.

Academic and Professional Organizations

National honor societies at Ferrum include:

- Alpha Chi (junior and senior students)
- Alpha Phi Sigma (criminal justice students)
- Alpha Psi Omega (theatre students)
- Beta Beta Beta (biology students)
- Kappa Delta Pi (education students)
- Kappa Pi (art students)
- Lambda Sigma (sophomore students)
- Phi Alpha (social work students)
- Phi Alpha Theta (history students)
- Pi Sigma Alpha (political science students)
- Psi Chi (psychology students)
- Sigma Tau Delta (English students)

Students may also participate in the following clubs: ENACTUS-Entrepreneurial Action Us, Agriculture Club, Chemistry Club (including Student Affiliate membership in the American Chemical Society), Recreation Club, Sigma Psi Delta, English Club, Criminal Justice Club, Political Science Association, Psychology Club, Social Work Club, Art Club, and Student Virginia Education Association.

Athletics

Ferrum College offers a wide variety of intercollegiate athletics for both men and women students. Men's programs include baseball, basketball, cross country, football, golf, lacrosse, soccer, swimming, tennis and wrestling. Women's intercollegiate teams include basketball, cross country, field hockey, golf, lacrosse, soccer, softball, swimming, tennis, volleyball, and wrestling. Cheerleading and equestrian teams are open to men and women.

Another popular participatory activity on campus is intramural programming. Intramurals offers a variety of sport, such as basketball, flag football, soccer, softball, volleyball, table tennis, kickball, other sports, and more fun competitive and non-competitive activities.

The YMCA at Ferrum College, swimming pool, tennis courts, weight room, and other athletic facilities are available on a regular basis for formal and informal participation.

The College has a consistent winning record in athletics. The College competes in intercollegiate activities as a Division III member of the National Collegiate Athletic Association. The 2018-19 academic year was Ferrum College's first year as a member of the Old Dominion Athletic Conference (ODAC), one of the oldest and most respected NCAA Division III conferences in the nation.
Honors and Awards

Each spring an awards ceremony, leadership banquet, and an athletic banquet are held to recognize achievement in academic disciplines, co-curricular activities, and athletics. Students receive prestigious awards such as:

- The Algernon-Sydney Sullivan Award is presented annually to a student in recognition of spiritual qualities practically applied to daily living.
- The James T. Catlin, Jr., Citizenship Award is presented to the graduate who has best demonstrated qualities for citizenship and general leadership ability.
- The Lillie Warwick Slaven Award is awarded to the student who exemplifies the ideals of the ministerial profession and has provided outstanding student leadership at Ferrum.
- The Arthur S. Owens Leadership Award in Human Services is presented annually to a junior or senior student who demonstrates qualities of outstanding character, leadership, initiative, and honor.
- Who's Who in American Universities and Colleges, a national publication, invites the college to select a limited number of students annually for recognition based upon excellence in scholarship, leadership, and participation in educational and extracurricular activities, general citizenship and service to the college, and promise of future usefulness to society.

Counseling Services

Ferrum College students have access to a professional counselor located on campus in Bassett Hall. Designed for short-term, problem-solving situations, the main objective of counseling is to help students achieve academic and personal goals as well as to provide support during stressful times.

Students should call the Office of Student Counseling directly (540) 365-4219 during normal business hours, Monday through Friday, 8:30 a.m.–5:00 p.m. to schedule an appointment or contact the therapist by email (jstallard@ferrum.edu); the counselor will return the call or email as soon as possible during regular business hours. Education sessions and peer groups will be conducted on campus free of charge by the counselor as scheduling permits.

If a student is in need of long-term therapy, the counselor may make a referral to an outside therapist for in-depth, therapeutic counseling.

Students are assured that all counseling services are confidential between the student and counselor unless the counselor believes there is a substantial likelihood that the student will, in the near future, cause serious harm to themselves or others. In situations where a student is believed to be in danger, the counselor shall follow Ferrum College's established protocols, which includes notifying College officials if appropriate.

Office of Career Services

The primary purpose and mission of the Office of Career Services is to assist Ferrum College students and alumni in developing, evaluating, and implementing career, graduate or professional school and/or employment plans. Each student's career development is a life-long process that can be learned and developed.

A comprehensive four-year program of career development at Ferrum College includes the following elements: self-assessment, career/academic major choice, successful educational and experiential learning involvement, and preparing employment or graduate school applications. Throughout their education, students are offered activities to help them develop career planning skills.

The Office of Career Services staff offers individual and group advisement, interactive computer assessment (FOCUS 2), resume reviews, job market research, individual and panel mock interviews (using digital critique methods),
graduate school planning, and training in all aspects of the employment search process. The Career Services Office website provides information on career planning programs ("What Can I Do With This Major?", "Occupational Outlook Handbook", etc.) and employment search activities. The website also includes links to employment search websites. Students have access to free practice test opportunities for the graduate and professional school entrance exams. Job notices received from employers are sent to faculty and students.

Students are introduced to experiential learning opportunities such as internships which provide practical experience in the student's major area of study. The Office of Career Services also provides access to three career fair events, a graduate school fair, Federal Expo fairs and other networking opportunities.

The Office of Career Services is located in the Career and Leadership Center in the lower level of Franklin Hall. Contact the Office of Career Services at (540) 365-4441 or www.ferrum.edu/career to schedule an appointment or explore the wide variety of services that we offer to our students and alumni.

Health Forms

Personal well-being is a key ingredient to a successful college experience. As part of the enrollment process, each student is required to have an up-to-date health form and immunization record on file at the College prior to enrollment at Ferrum.

Tri-Area Community Health Center at Ferrum

The Tri-Area Community Health Center at Ferrum, located in lower Vaughn Chapel, provides health related advice and treatment for students experiencing health-related problems. A full staff including a doctor, nurse practitioner, x-ray and lab technicians, nurses, pharmacy and support staff are available.

Ferrum College does not offer student health insurance coverage; however, it is strongly recommended that students have health insurance. Students should have a current insurance card (including prescription card) available for on-campus, emergency, or other off-campus medical care.

Residency Requirement

Ferrum College is a residential institution of higher education. Research has shown that academic, social, emotional, and cultural growth among college students is enhanced by residential programs. Therefore, all full-time students are expected to live on campus. Any exception to this policy requires a formal petition (called a Residency Requirement Waiver) to be filled out and submitted to the Office of Student Life.

Ferrum College Community Code

All members of the Ferrum College community share a common responsibility to refrain from actions which obstruct the mission of Ferrum College, hinder the safety and security of community members or their property, prevent the proper use of the facilities of the College, or impair the development and maintenance of an environment which is necessary for an institution of higher learning. Together, we have the responsibility to safeguard the rights of others, to encourage discussion, to respect the right to study and learn, and to create an image and atmosphere of which we can be proud. The basis for implementing this responsibility can be found in the Ferrum College Community Code, which states:
In reaching toward the full development of our individual potential as persons and toward a high quality of life as a community of people, we of Ferrum College recognize the following basic principles as obligations to ourselves and to our community.

Personal responsibility for achievement in our work, study, and activities on campus.

Care for and assistance to colleagues on campus in the fulfillment of their responsibilities.

Respect for the rights of all members of the campus community.

Protection and preservation of personal and community property, resources, and heritage.

Worthy participation in the wider community beyond campus.

Ferrum College reserves the right to exclude any student who acts in an undesirable manner, or who does not benefit from the College programs. Students are advised that it is their responsibility to familiarize themselves with all Ferrum College policies and procedures outlined in the Student Handbook, which can be accessed online at http://www.ferrum.edu/downloads/student-affairs/student_handbook.pdf

**Residence Halls**

The College provides a variety of residence hall living environments in which students have an opportunity to experience different lifestyles and responsibilities while in attendance at Ferrum College.

To aid in the development of a living-learning environment, residence halls are staffed with qualified professional staff and student staff members.

**Student Accountability**

All students are expected to abide by the Ferrum College Community Standards and Residence Hall Policies as stated in the Student Handbook, which can be accessed online at http://www.ferrum.edu/downloads/student-affairs/student_handbook.pdf.

**The Honor System**

Ferrum College's honor system is based on the philosophy that academic endeavor is undermined by cheating, plagiarism, or lying for academic advantage. The Honor Board is made up of faculty and student members and hears cases related to the above violations. The full honor policy can be found online in the Student Handbook at http://www.ferrum.edu/downloads/student-affairs/student_handbook.pdf. Students are responsible for following its provisions.

**Student Internal Complaint System**


**Student Services and Information**
Dining Service-Franklin Hall Dining Hall

INCOMING FRESHMEN ONLY

Meal Plan B will be the default resident meal plan (included in board fees) for all incoming freshmen residential students living in Clark, Dyer, Roberts, Riddick, Chapman, Bassett, Moore, Arthur and Susannah Wesley. Freshmen students may request to change to Meal Plan A prior to the Spring semester.

**Meal Plan B:** 15 meals per week plus $325/semester in Dining Dollars for use at any of our Retail Dining venues or in the Dining Hall plus three guest meals per semester.

**RESIDENT MEAL PLANS (included in board fees):**

**Meal Plan B** will be the default resident meal plan for all residential students living in Clark, Dyer, Roberts, Riddick, Chapman, Bassett, Moore, Arthur and Susannah Wesley.

**Meal Plan A:** 19 meals per week plus $175/semester in Dining Dollars for use at any of our Retail Dining venues or in the Dining Hall plus three guest meals per semester.

**Meal Plan B:** 15 meals per week plus $325/semester in Dining Dollars for use at any of our Retail Dining venues or in the Dining Hall plus three guest meals per semester.

Please contact Nikki Pittman at npittman@ferrum.edu if you would like Meal Plan A instead of Meal Plan B.

There is no additional cost to change from Plan B to Plan A.

**Meal Plan M** will be the default resident meal plan for resident students approved to live in Ferrum Village, Hillcrest Apartments or 602 Apartments.

**Meal Plan M:** 10 meals per week plus $325/semester in Dining Dollars for use at any of our Retail Dining venues or in the Dining Hall plus three guest meals per semester.

Students enrolled in Meal Plan M may request a meal plan change by contacting Nikki Pittman at npittman@ferrum.edu. There is an additional $550 charge per semester for this option. Please contact Student Accounts (540) 365-4239 before Meal Plan A or B can be issued.

**Changing Meal Plan**

Students will only be allowed to change their meal plan prior to the start of the semester. If changes are not made prior to the start of the semester, the student will have to wait until the following semester to change their meal plan.

When deciding about the appropriate meal plan, consider

- How many meals are normally eaten per day
- Participation in athletic or club activities
- Whether Retail Dining food choices are desirable.

**Commuter Students**
Commuter students may place money on their Ferrum ID card ($20 minimum) using a credit card at Student Accounts (540) 365-4239 located in John Wesley Hall. Commuter students may place money on their Ferrum ID card ($20 minimum) using cash or check at the Office of Dining Services (540) 365-4453 located in Franklin Hall. Commuter students may also pay cash prices when eating at any of our Retail Dining venues.

The Ferrum College ID serves as the meal card and must be presented for all meals and Dining Dollar transactions. There are limited options for students who forget to bring their ID for Dining Hall transactions: 1) Retrieve ID card and return to the Dining Hall, 2) Pay cash for the meal, 3) Have another student who has a card with sufficient Dining Dollars pay for the meal, or 4) Purchase a new Ferrum College ID card.

**Additional Information**

- Shirts and shoes are required in the Dining Hall.
- The meals per week can only be used by the cardholder and are not transferable.
- Dining Dollars must be used before the end of each semester and are not refundable.
- Students are allowed to add additional dollars to their account, but these dollars must also be used by the end of each semester.
- If a student uses all available meals for a week, Dining Dollars may be used to purchase meals/menu items in the Dining Hall or at any of our Retail Dining venues.
- Guest meals must be identified upon entry to the Dining Hall.
- The week starts on Sunday and ends on Saturday.
- Please return all dishes, glassware, and utensils to the dish room window after dining.

**Dining Hall Hours of Operation when classes are in session:**

**Monday-Friday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Breakfast</th>
<th>7:00 a.m.—9:45 a.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Breakfast</td>
<td>9:46 a.m.—10:59 a.m.</td>
<td></td>
</tr>
<tr>
<td>Lunch</td>
<td>11:00 a.m.—2:15 p.m.</td>
<td></td>
</tr>
<tr>
<td>Light Lunch</td>
<td>2:16 p.m.—4:29 p.m.</td>
<td></td>
</tr>
<tr>
<td>Dinner</td>
<td>4:30 p.m.—8:00 p.m.</td>
<td></td>
</tr>
</tbody>
</table>

*The Dining Hall will close at 6:30 p.m. on Friday.*

**Saturday & Sunday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Brunch</th>
<th>10:30 a.m.—1:00 p.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dinner</td>
<td>4:30 p.m.—6:00 p.m.</td>
<td></td>
</tr>
</tbody>
</table>
Please note: During inclement weather when classes are canceled or delayed, the Dining Hall will open at 10:00 a.m. and may close at 6:00 p.m. based on employee availability.

Questions or concerns regarding meal plans or the Dining Hall should be directed to Kim Allen, Operations Manager, in the Office of Dining Services at (540) 365-6927.

Billing inquiries and credit card payments should be resolved through Student Accounts at (540) 365-4239.

Please "like" Ferrum College Dining Services on Facebook to receive important updates, leave suggestions, and receive daily menus and information of special events!

**Post Office**

All students are assigned mail boxes at the post office in Franklin Hall. Official mail from all Ferrum College offices will be sent to this box for students. All students are expected to check campus mail boxes at regular intervals. Students who do not return the mail box key at the end of their final semester will be assessed a $25 key replacement fee.

**Transportation**

The Ferrum Express is a free service that is also open to the public. Maps and Schedules can be found online at www.ferrum.edu/leadershipandengagement. Students wishing transportation to and from mass transit terminals in Roanoke should make arrangements with a friend in advance of their trip.

**E-Mail and Internet Access**

Students are provided a Ferrum College e-mail address and have Internet access via their own computer or smart device. The Library and lab computers are also available for student use.

**Information Services Help Desk and Computer Labs**

The Information Services Help Desk in Bassett Hall lobby is open 8:30 a.m.-4:30 p.m., Monday-Friday, when the College is in session. Information Services staff and student assistants can provide support with basic hardware and software questions and troubleshooting. These services are available at no charge to students.

There are Computer Labs in Beckham Hall, Garber Hall, and the Stanley Library Learning Annex. When not used for scheduled classes, computer labs are open to students. The Beckham Hall Labs are staffed by student assistants Sunday through Thursday evenings, 6:00 p.m. until 10:00 p.m. when the College is in session. The Garber Hall Lab is open by appointment only, and the Stanley Library Computer Lab is open during library operating hours when not reserved for instructional sessions. Additional computers are located on the first and second floors of the Library for student use. Additionally, a limited number of laptop computers may be available for short-term checkout to students from the Stanley Library.

**Breaks/Holiday Policy**
During Fall and Easter Breaks, residential students wishing to stay in their assigned Residence Hall rooms must make their request by the stated deadline before the break starts, in writing to, and receive written approval from, the Dean of Students (or designee). The college dining hall may be closed during these breaks. Any person entering into halls without written permission will be considered trespassing and may be subject to discipline. Students are not permitted to have guests on campus when staying for breaks.

During Thanksgiving, Winter Break, and Spring Breaks, the residence halls will be closed and will not be staffed. Students living in Hillcrest, Ferrum Village East, and Ferrum Village West are permitted to remain in their apartments during these breaks; however, they must receive written permission from the Dean of Students (or designee).

**Departure at the End of the Academic Year**

Students completing final examinations must depart from the College within 24 hours from the time they finish their last exam.

**Motor Vehicles**

A student may keep a motor vehicle on campus, provided it is properly registered with the Ferrum College Campus Police Department and is operated in a safe and orderly fashion. It is the responsibility of all faculty, staff, and students to familiarize themselves with all College vehicle regulations, as well as all applicable state laws regulating the use of motor vehicles. Temporary decals are available in the Ferrum College Campus Police Department.

No inoperable vehicles may be stored or parked on the premises. All vehicles must maintain a current license and be currently registered with all appropriate authorities and jurisdictions.

**ACADEMIC POLICIES**

**Academic Regulations**

Ferrum College maintains a tradition of a comprehensive academic program rooted in the liberal arts. The College strives to maximize students' success through a system of individual attention and positive reinforcement. The curriculum includes opportunities for career preparation as well as self-development and the fulfillment of personal educational goals.

**Regulations Governing Catalog**

The catalog for the year in which a student enters Ferrum College is the governing document for requirements for graduation. However, students who change their program of study after their first year of enrollment must apply the regulations in the current year's catalog. Students must submit a new degree plan indicating the catalog change.

If a student leaves Ferrum College and enrolls as a full-time student in another institution or is dropped for academic or disciplinary deficiency and subsequently re-enrolls at Ferrum College, the governing catalog for the student will be that for the year of re-enrollment. (Refer to the Admissions section of this catalog under "Readmission for Former Ferrum Students" for additional clarification.)

**Campus-wide Assessment Program**
Ferrum College maintains a continuing assessment process to achieve quality and to determine how well it realizes its institutional mission. As a part of a comprehensive assessment program, the College also regularly evaluates each academic major and program. Instruments and tools are used to gather evaluative information. Course evaluations, standardized as well as campus-generated questionnaires, interviews, written essays and written performance evaluations are all used as components in a scheduled cycle of assessment activity. Students and employees are expected to participate promptly and seriously in assessment activities as requested.

Credit By Exam

Currently enrolled, qualified students demonstrating satisfactory academic competency in particular subjects may earn credit by successfully completing a departmental examination. A departmental exam may be taken only one time for a course, and the student must attain a grade of 70% or better in order to receive credit for the exam. No more than 10% of a student's coursework at Ferrum College may be earned by credit by exam.

Credit by exam is not available for all courses taught at the College. In general, courses that are experiential (such as labs, physical activity, E-Term, and those designated writing or speaking intensive, etc.) are not available in credit by exam format. An exam may not be used to remove grades of "D", "F" or "WF" or to improve a grade already earned. Requests for departmental exams must be initiated with the academic advisor and approved by the Program Coordinator, School Dean and the designated faculty member who will design and administer the exam. A special fee is charged and must be paid prior to taking the examination. (See Miscellaneous Fees) For credit to be obtained in a given term, the examination has to be administered no later than three weeks prior to the beginning of the regularly scheduled examination period of the Fall and Spring terms. Credits awarded by credit by examination may apply toward graduation requirements and will become part of the student's permanent record. If the student passes the exam, a "P" grade will be assigned. However, the grade earned on the exam will not be calculated into the student's cumulative GPA. Courses completed in credit by exam format will be noted on the transcript as such.

Class Attendance

College policy dictates that attendance is required at a minimum of three-fourths of all class meetings in order to receive credit in a course. The instructor, in consultation with the School Dean or the Dean of Academic Affairs, may determine that unusual circumstances and the student's work in the course justify the assignment of a grade other than F. Unusual circumstances include extended illness or other emergencies, the student's participation in college-sponsored activities, or some combination thereof. The policy governing the remaining one quarter of class meetings is established by the individual professor and is recorded on the course syllabus.

The College expects consistent, punctual attendance in regularly scheduled classes. There should, therefore, be no absences except those due to sickness or other emergencies, or those incurred in representing the College in an organized activity, such as athletic events or musical or theatrical performances. In these cases students must obtain written explanation of an absence from an appropriate source (faculty member, coach, medical professional), in order to be excused for the absence. Students assume full responsibility for advising professors of their absences and for initiating the procedure for making up work missed.

In the case of absences in excess of the limit established in the class syllabus, instructors may adjust the course grade (in accordance with stated course policy) according to the number of absences, or the student may be advised to drop the course within the guidelines outlined in the current drop-add policy.

Course Loads

To be classified as "full-time" and to be eligible to occupy college housing and participate in intercollegiate athletics as well as other college-related activities, a student must register for a minimum of 12 hours of coursework per semester.
The average course load is 16 hours per semester, and the maximum recommended course load is 19 hours per semester. Students carrying more than 19 hours per semester must obtain the approval from the Provost of the College and will be assessed an overload fee. (See Instructional Fees.)

Students are considered "part-time" if they register for fewer than 12 semester hours of work. Part-time students who are degree candidates should contact the Office of Admissions and follow the regular admissions procedure.

**Student Classification by Credit Hours**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>A student who has been admitted to the College and has earned fewer than 24-credit hours.</td>
</tr>
<tr>
<td>Sophomore</td>
<td>A student who has earned at least 24-credit hours but fewer than 56-credit hours.</td>
</tr>
<tr>
<td>Junior</td>
<td>A student who has earned at least 56-credit hours but fewer than 88-credit hours.</td>
</tr>
<tr>
<td>Senior</td>
<td>A student who has earned at least 88-credit hours but who has not earned a bachelor's degree.</td>
</tr>
</tbody>
</table>

**Independent Study**

Students may arrange to take a course by independent study when they need a course that is not being offered. A student wishing to take a course by independent study must petition the appropriate School Dean and the Provost for course approval by submitting the required independent study form available in the Office of the Provost. Once all signatures are collected, forms and required documentation are to be submitted to the Office of the Provost for approval. Formal approval for any independent study course must be granted by the end of the add period of the semester in which the course is taken. No more than twelve credit hours of independent study courses may apply toward a bachelor's degree. An independent study should normally be completed in the semester in which it is approved. After an independent study has been approved, the fee will be added to the student's account. (See Instructional Fees.)

**Internships**

Many programs offer an internship, normally worth three to nine semester hours of credit. The internship usually consists of a carefully supervised work experience in an area related to the student's major field of study. Typically, this experience takes place over the period of a summer or one semester in the student's junior or senior year. Internships may be offered on a pass/fail basis at the discretion of each appropriate School Dean. This decision will be made and posted well in advance of class registration.

All students participating in an internship are expected to provide their own transportation as well as assume responsibility for other expenses incurred while in the field. Students interested in establishing an internship should consult department guidelines and the Internship Program Handbook published by the Office of the Provost's and should consult the Program Coordinator in their major. The student will be charged a fee in addition to tuition when an internship is enrolled along with other courses during fall and spring semesters. Students enrolling in an internship during the summer or when not enrolled in any other courses during the regular academic year are charged an internship fee (see Instructional Fees.)

Eligibility for internships, as stated in the Internship Program Handbook, includes:

1. Successful completion of at least 24-semester hours of 300-400 level credits.
2. Achievement of a minimum grade point average of 2.0 on all coursework attempted at Ferrum and a 2.0 on all coursework in the major.
3. Written approval of the student's internship contract by the Program Coordinator and the appropriate School Dean.
4. Internship Request Form must be signed and submitted to the Office of the Registrar.
5. An internship may not be added after the last day to add classes each semester.

The complete list of procedures and requirements can be viewed in the Internship Handbook.

**Grading System**

Grade point averages are determined by dividing the total quality points earned by the number of semester hours of attempted coursework. A semester hour is the value of one class hour per week throughout a semester. Ferrum uses the following grading scale:

- **“A”** - Excellent, 90-100 = 4.0 quality points per semester hour.
- **“B”** - Good, 80-89 = 3.0 quality points per semester hour.
- **“C”** - Average, 70-79 = 2.0 quality points per semester hour.
- **“D”** - Passing, 60-69 = 1.0 quality points per semester hour.
- **“F”** - Failing, below 60 = 0 quality points.
- **“FF”** - A Penalty “F” may be given only by the Honor Board as a result of being found responsible for an Honor Code violation. While the course may be repeated, the "F" will always be computed in the GPA. This "F" will be recorded on the transcript as "FF". The Honor Board is responsible for notifying the Office of the Registrar if there is a violation that warrants a penalty of "FF".
- **“I”** - In special cases, such as a lengthy illness, the student (with the permission of the instructor) may petition the Academic Standards Committee before the end of the seven weeks to extend the period of completion. The “I” will convert to an "F" unless a petition to extend the completion time is granted by the Academic Standards Committee.
- **“W”** - Withdrawn with documented extenuating circumstances. See Withdrawal from College
- **“WF”** - Withdrawn when failing; computed into the grade point average as an "F".
- **“WP”** - Withdrawn when passing; not computed into the grade point average.
- **“R”** - Repeat; a non-credit, no penalty grade which may be awarded only in ENG 101 and MTH 100. The grade is intended for underprepared students in English or mathematics who work diligently and show potential but do not attain sufficient skill to proceed in the sequence. To do so, students must first repeat the course.
- **“S”** - This grade can only be given to a student as a mid-term grade. It must not be used for a final grade at the end of the semester. The “S” means that a student is making satisfactory progress in the course.
- **“U”** - This grade can only be given to a student as a mid-term grade. It must not be used for a final grade at the end of the semester. The “U” means that a student is making unsatisfactory progress in the course.
- **“P”/"F”** - Pass/Fail; the courses in which students may earn a "pass/fail" grade must be designated by the offering department. Such courses are included in the computation of the student's course load and total hours earned; however, no quality points are assigned for "P" grades. A failure of a "pass/fail" is considered as an "F" and does affect the student's grade point average.
- **“AU”** - Audit; a non-credit course grade designation elected by the student within the first week's add period. The audited credits count as hours carried and are subject to fee assessment. Approval to audit a class must be granted by the instructor and email notification sent to the Office of the Registrar.

**Incomplete**
An incomplete (I) for a course will be granted only in cases of prolonged illness, family emergency, or some other documented unforeseen circumstance that prevents the student from completing the course requirement on time. A student who wishes to receive an "I" may make a request with the instructor of the course to initiate the process. This must be done before final grades are due in the Office of the Registrar.

The instructor will determine the appropriate amount of time necessary for completion of the work. However, the incomplete work must be completed within seven weeks after the end of the semester in which the "I" is given. In special cases, such as a lengthy illness, the student, with the consent of the instructor, may petition the Academic Standards Committee via e-mail at academicstandards@ferrum.edu before the end of the seven weeks to extend the period of completion.

Upon completion of the coursework, the "I" will be replaced with a final grade. If the course is not completed by the end of the seven weeks, the "I" will be converted into an "F" grade unless a petition to extend the completion time is granted by the Academic Standards Committee. The extension, if granted, will extend no longer than the subsequent semester (work must be completed by the end of the spring semester for fall incompletes and no later than the beginning of the fall semester for spring incompletes). Summer incomplete extensions, if granted, will be completed no later than the end of the fall semester. A student may not be permitted to enroll for credit in any course that has the incomplete course as a stated prerequisite without permission of the instructor.

Grade Reporting

Grades may be viewed on the student's Panther Portal (from the student Portal go to Self-Service, then Webadvisor for Students, then Academic Profile, click the Transcript link, and submit. Grades are viewable immediately after the grades are entered by the professor. If a student needs an official verification of grades, transcripts may be requested on the Panther Portal (same process as above) after clicking on Academic Profile, select the "Transcript Request" link. If using the GoApp to request transcripts, Click the menu then the Transcript Request.

Grade Review Process

Concerns about a course grade should be directed to the faculty member who taught the course within six weeks after the grade is given. In cases where the student feels the problem has not been resolved, he or she may speak to the appropriate School Dean and, finally, to the Provost. The student will be notified of a decision within two weeks. In no case may a grade be changed after one calendar year without the permission of the Provost.

Graduating with Honors

To graduate with honors, a student must achieve the following grade point averages based on all credit work attempted at Ferrum College:

- Summa Cum Laude – 3.80
- Magna Cum Laude – 3.60
- Cum Laude – 3.40

Dean's List

The Dean's List is made of students whose grade point average is at least 3.40 out of a possible 4.0 and is confirmed at the end of the fall and spring semesters. A student must be full-time (have earned 12 hours) to qualify.
Repeating Courses

For the purpose of improving their overall academic average, students are permitted and encouraged to repeat courses in which they have grades of "D" or "F". Only the higher grade obtained in a repeated course is included in a student's grade point average. For transfer purposes, note that other institutions may consider total hours attempted in calculating the GPA. A Penalty "F" (Grading System) may be repeated, but the "F" is still computed in the grade point average. (Quality Points are not factored into transfer work.)

Drop-Add Procedure

Students are allowed to add a course to their schedules or change sections of a course online with their academic advisor during the first week of each semester. They may drop a course, without penalty, within three weeks (two weeks for half semester courses) of the beginning of each semester. Courses dropped during the adjustment period are not entered on students' academic records and may be dropped via an online process by the academic advisor. A student must earn credit for two-thirds of courses for which they are enrolled as of week three (census date). Starting with the fourth week through the tenth week, courses dropped from a student's schedule will be reflected by a "WP" or "WF" grade, to be determined by the course instructor. In cases of extenuating circumstances, a student may petition the Provost for a "W" grade. All such petitions should be in writing and must satisfy one of the following criteria: 1) prolonged illness; 2) family emergency; or 3) documented unforeseen circumstances. A student whose petition is granted will receive a "W" grade.

In adding or dropping courses, students should:

1. Determine the schedule adjustment through consultation with the faculty advisor. Advisors can add or drop classes online using the Panther Portal.
2. If a "WP" or "WF" grade is required, students should promptly discuss the implication with their Academic Advisor. Students should also discuss the grade and any extenuating circumstances with the Professor. Students can access a drop form on the Panther Portal and submit a completed form to the Office of the Registrar signed by both the advisor and professor.
3. Students should verify the accuracy of their schedule on their Panther Portal when any adjustments are made. Unless a course change has been made in this manner it does not have official standing and will not be recognized as valid by the College. In such a case where the proper drop procedure is not followed, a grade of "F" will be recorded at the end of the semester. A student whose status changes from full- to part-time as a result of classes dropped after the first week will not be eligible for any refund of tuition except as required by federal regulations for Title IV financial aid recipients.

Withdrawal from College

Students with extenuating circumstances that make it necessary to withdraw from Ferrum College should do so officially to maintain good standing. The following are considered extenuating circumstances: 1) prolonged illness; (2) family emergency; or 3) documented unforeseen circumstances. They should obtain an official withdrawal form from the Assistant to the Dean of Academic Affairs for Academic Initiatives in the Academic Resources Center to initiate withdrawal procedures. It is the responsibility of the student to complete the Withdrawal Form and complete the exit meeting, acquire signatures from the appropriate departments, which include, Student Accounts, Financial Aid, and Residence Life. The Office of the Registrar will contact faculty to ascertain grade status and last day of attendance. Withdrawing students are instructed to turn in their identification cards, residence hall or apartment keys, post office box key, and clear any charges on their student account, at the time of the exit interview. Failure to complete formal withdrawal procedures will result in grades of "F" for courses in which students were registered that term and in general, cannot be appealed to Academic Standards. The form with all acquired signatures must be submitted to Assistant to the Dean of Academic Affairs for Academic Initiatives.
- Official withdrawals within the first four weeks of the semester will result in the deletion of courses from a student's permanent record.
- Official withdrawals between the fourth week and the tenth week will result in grades of "WP" or "WF" as granted by each faculty member.
- A student with extenuating circumstances (including documented medical excuses) may petition the Provost for "W" grades prior to the last day of classes.

Involuntary withdrawals will be administered by the Office of Student Life. (Refer to the Student Handbook for guidelines and processes related to involuntary medical withdrawals.) In order for the College to consider granting a voluntary medical withdrawal, the student must provide evidence, supported and documented by a physician, of a serious, personal medical issue. Any refund for which withdrawing students are eligible will be based upon the date of the official withdrawal. Students who withdraw early may be subject to a return of Title IV aid programs (Stafford loan, PLUS loan, Pell grant, SEOG, and Perkins loans). Students should review the Return of Title IV Policy for further clarification. All withdrawals (except those for which the Academic Standards Committee has granted grades of "W" following an appeal) will be subject to the Standards of Satisfactory Academic Progress and Financial Aid Eligibility chart. Students that withdraw from the College may seek readmission by emailing readmit@ferrum.edu.

### Leave of Absence

Students in good standing prior to completion of a semester may be granted a leave of absence from the College for up to two semesters for specific vocational, educational, or medical reasons. Students desiring such a leave of absence must apply in writing to the Provost. Students approved for a leave of absence must also apply for readmission by emailing readmit@ferrum.edu. Financial aid recipients should check with the Office of Financial Aid as federal guidelines do not allow for more than a 180 day leave of absence without impacting your aid. Students withdrawing should refer to the Institutional Withdrawal Policy. "Withdrawal from College" section.

### Academic Support Services and Opportunities

Ferrum College offers a variety of academic opportunities and support services to address the needs of our diverse student body. Students are strongly encouraged to utilize these services to maximize their academic potential.

### Academic Advising

Academic advising at Ferrum College provides students with information that will strengthen academic performance, enhance the student registration process, and improve timely degree completion.

All freshmen are advised by their Gateway professor. During the second semester of the freshman year, students are assigned to an advisor that specializes in a single major. Students who have not selected a major remain with the Gateway professor until a major is decided upon. While students are ultimately responsible for fulfilling college requirements, advisors are the assisting experts who help students plan an efficient program of study.

### Academic Resources Center (ARC)

The ARC houses a number of programs that assist and empower students to achieve academic success. Housed in the lower level of the Stanley Library, the ARC is open twenty-four hours a day and provides a quiet place for students to study or complete individual or group projects. Throughout the day, faculty from varied disciplines hold their office hours in the ARC, giving students an opportunity to work with professors outside of class in a comfortable environment.
Ask ME First Center (AMFC)

The Ask ME First Center (AMFC) is committed to providing first generation college students, those whose parents never enrolled in post-secondary education, with resources that contribute to their academic and personal success. With an emphasis on mentorship, social activities, and pre-professional development opportunities, the AMFC aims to increase retention and graduation rates of first generation students.

Boone Honors Program

The Boone Honors Program has both curricular and co-curricular components. Curricular components, especially the honors seminars, are designed to enhance the honors student's undergraduate academic experience. Co-curricular components help create a community within the program that builds friendships while supporting curricular initiatives. Any student entering with a cumulative high school GPA of 3.5 or higher and a combined math/verbal SAT score of 1200 or higher is eligible for honors program membership, and members are awarded scholarship at the highest level of the Admissions/Financial Aid matrix (except for top competitive scholarships). Students who do not meet eligibility criteria upon entry but make the Dean's List at Ferrum College may apply for membership and should contact the honors director concerning procedures for membership review.

Students who complete the Honors Program are awarded the Boone Honors Medallion at Commencement. They will have completed four honors-designated seminars in lieu of 12 hours of applicable general education requirements and a capstone course taken during the junior or senior year, currently listed as HON 435 - Values and Vocation. Students must earn a grade of "C" or higher and an overall GPA of 3.2 or higher for these seminars, and must also maintain a cumulative GPA of 3.4 or higher. Please refer to Course Descriptions under the Honors (HON) course designation for a current list of honors seminars.

Additionally, honors students undertake 12 hours of independent honors-enrichment projects. These projects will be undertaken in regularly taught courses, generally in the student's major or minor, wherein honors students undertake individualized projects outside regular course requirements. The point of honors-enriched coursework is to extend a topic, approach, or project so that honors students gain an enhanced understanding of the area of study and have greater opportunity for individualized research. Students have the option of undertaking an honors thesis project to satisfy up to six hours of the honors enrichment requirement, depending on the scope of the project.

Honors students also complete foreign language study through the intermediate level and are required to undertake a Study Abroad experience; most students fulfill the latter requirement through an E-Term course (thus completing another general education requirement). A travel scholarship of up to $3,000 is available for the honors student for the Study Abroad experience.

Honors students also get early preregistration, and resident honors students are offered a preferential housing option. Finally, honors students are regularly invited to participate in social and cultural outings to museums, lectures, and entertainment venues, at program cost. Contact Dr. Lana Whited, Director of the Boone Honors Program, for more information.

Brother4Brother and Sister4Sister

Brother4Brother (B4B) and Sister4Sister (S4S) are peer mentoring programs in which upper class students provide personal, academic, and social mentoring for freshman students at Ferrum College. Students learn to conduct themselves in a mature manner, discover ways to engage themselves in the Ferrum community and beyond, and develop the skills and attitude required to be successful; both at Ferrum and in their chosen career.
College Skills Courses

College skills courses are designed to support students at Ferrum College who are placed on academic warning or probation. These courses provide special advising to discuss students' adjustment to college life and transition issues that can impact academic performance. It is the ultimate goal of the course to help students make the fundamental changes that will enable them to become successful.

Early Alert System

Faculty and staff can report student concerns using an Early Alert reporting form. Faculty and staff use the form when they observe any student struggling academically or personally, or to report family or other personal issues that might affect the student's performance or well-being. Academic professionals then contact students to help them get appropriate support.

Ferrum Foundations

Ferrum Foundations is a pre-first semester experience held one week prior to the beginning of the Fall semester. Experiences are designed to facilitate students' transition from high school to college. Students participate in curricular and co-curricular activities that help develop readiness for college, critical thinking skills, a sense of community, and connection to the Ferrum College campus. Incoming freshmen also register for HHP 149-Selected Topics in Physical Education and earn one college credit.

First Year Experience Program

The First Year Experience Program addresses issues and concerns shared by new Ferrum College students and introduces them to the responsibilities and privileges of living and learning in an academic community. The program is designed to help students adjust to Ferrum College, develop a better understanding of learning processes, acquire academic and social skills crucial to personal and professional success, and take advantage of the campus resources available to them.

The Program consists of Panther PAWS, Connection Weekend, and GWS 101. New students, both freshmen and transfers, and their parents or guardians, are introduced to Ferrum College during one of the Panther PAWS days scheduled during the summer. When students come to campus in August, they participate in Connection Weekend, a three-day orientation to college life.

Freshmen take GWS 101, a two-hour, two-credit course that helps students begin their college experience with an integrating academic experience and to achieve familiarity with campus resources and college policies.

International and Intercultural Learning Opportunities

Ferrum College students are provided multiple opportunities to learn about various domestic and international cultures. A few examples are provided below:

The Appalachian Cluster: The Appalachian Cluster examines modernization in Appalachia from several different points of view – English, sociology, and science. All participants take three classes together so that students and faculty
form a unique learning community. Classes involved are SOC 101 - General Sociology, ESC 102 - Introduction to Environmental Science, and ENG 101 - Composition and Rhetoric. Students who have already received credit for the freshman composition requirements may enroll in ENG 207. Any one of these courses can be honors-enriched by students in the Boone Honors Program. While participants learn a great deal about Appalachia, the focus of instruction is general education, teaching basic concepts of science, sociology, and English, using Appalachia as a tool for getting there. The region is close at hand and rich in opportunity. Participants do site visits to locations being studied, learning fundamentals of critical thinking through original research.

**Study Away:** Ferrum College students may elect to participate in a number of study abroad opportunities, ranging from several weeks to a summer, a semester or a full academic year. International study/travel short term programs are offered regularly by members of the College faculty each May as part of our E-Term courses, as well as at other times of the year. These programs have included, but have not been limited to such destinations as Austria, Belize, England, Honduras, Ireland, New Zealand, the Russian Federation and South Africa. We also have on-going exchange programs with China Three Gorges University in Yichang City, China, Sejong University in Seoul, South Korea and the Pskov Pedagogical University in Pskov, Russia. In addition, numerous approved study abroad providers, such as The Center for Cross Cultural Study: Spanish Studies Abroad, have been popular with the College students, offering additional opportunities for long-term study in areas ranging from Asia to Europe to Central and South America.

Finally, a new initiative of the Methodist Church will support international academic opportunities among Methodist Institutions world-wide, offering exciting new study abroad possibilities. Students are invited to visit the Ferrum College Office of International Programs for guidance in exploring study abroad.

**Math Center**

The Math Center provides assistance to students taking any mathematics course or math-related course offered at Ferrum College. Assistance is provided for homework, test preparation or projects. Math faculty are available according to scheduled hours to provide tutoring and help during the week. The Math Center is located on the lower level of the Stanley Library in the ARC.

**Office of Academic Accessibility (OAA)**

Ferrum College admits qualified students regardless of disability and welcomes the full participation of students with disabilities in all aspects of campus life. The OAA coordinates with various campus partners to ensure equal access to College programs, facilities and services.

Students with disabilities who require accommodations should contact the OAA as early as possible prior to the start of their first academic semester, or upon onset of disability, to initiate the intake and eligibility process. Students who seek academic accommodations must submit current disability documentation to the Director of the OAA to request the desired accommodations.

**Peer Assisted Learning (PAL)**

Peer tutors are assigned to primarily (but not limited to) introductory level courses. The student PAL facilitator is recommended by the professor and then works with that professor to provide current help. The PAL establishes a schedule for study sessions twice a week, as well as provides extra sessions prior to major tests. Students may also schedule one-on-one sessions with the PAL tutor assigned to their class. A schedule of classes and study sessions can be found on the ARC website, posted around campus and in the ARC.

**Think and Learn Center (TLC)**
The TLC supports certain sections of first-year courses at Ferrum College. The TLC provides regularly scheduled, out-of-class, professionally facilitated learning sessions. These sessions provide an interactive, collaborative review of the difficult material in the course.

**Writing Center**

The Writing Center is available to all students who seek to improve their writing skills in connection with any course on campus. Students at all levels of ability are encouraged to visit the Writing Center for individual assistance at any stage of a writing project from brainstorming and planning to researching, drafting, and revising. Located on the main floor of the Stanley Library, the Writing Center is open for drop-in visits on a regular schedule of both day and evening hours during the academic semesters and E-Term.

**Academic Progress and Financial Aid Eligibility**

All students at Ferrum College are expected to achieve satisfactory progress toward a baccalaureate degree. Exhibiting such progress is necessary to remain in good standing and to remain eligible to receive financial aid. For satisfactory progress to be demonstrated, a full-time student must meet the following minimum guidelines for advancement to the baccalaureate degree within a period of time, up to five years. For purposes of this policy, students will be considered full-time for the semester if their class load is at least twelve credit hours at the end of the add period.

**Standards of Satisfactory Academic Progress (SAP)**

<table>
<thead>
<tr>
<th>(Quantitative Measure)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of semesters completed</td>
<td>1.4</td>
<td>1.6</td>
<td>1.8</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Required cumulative GPA</td>
<td>1.4</td>
<td>1.6</td>
<td>1.8</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Qualitative Measure**

All students must complete 67% of all registered coursework by the end of the semester. Withdrawn and transfer credits will count as attempted coursework. Part-time students who have not passed 50% of the hours attempted in any single semester will be placed on academic suspension.

**Maximum Time-frame**

In order to demonstrate satisfactory academic progress a student must complete a bachelor's degree within a maximum 150% of full-time study or five years. The 150% requirement requires that a student may not earn more credit hours than 150% of what is required for the degree (i.e., Ferrum College's degree program requires 121 credit hours so 150% of 121 equals 182 maximum credit hours.) Students entering their sixth year of full-time coursework are also ineligible for financial aid. These time frames may be appealed. Please review the Appeals Process under Financial Aid Policies for additional information.

The status of transfer students will be determined based on the number of transferable hours they bring to Ferrum College upon entry. For example, a student who enters the College with 30-41 transferable hours will be considered to have completed three semesters; consequently, his or her first Ferrum College semester will be considered the fourth,
and he or she must meet the appropriate Grade Point Average (in chart below) based only on coursework at the College.

<table>
<thead>
<tr>
<th>Total Transferable Credits (excluding Dual Enrollment)</th>
<th>9-18</th>
<th>19-29</th>
<th>30-41</th>
<th>42-54</th>
<th>55-67</th>
<th>68-90</th>
<th>81-93</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester equivalency:</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Required GPA upon completion of semester</td>
<td>1.6</td>
<td>1.8</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Readmitted students:** who have taken courses at other institutions after leaving Ferrum College will not be considered transfer students for the purpose of determining satisfactory academic progress. These students will be evaluated individually by the Office of the Registrar in consultation with the Dean of Admissions to determine their readmission status (good standing, academic warning, or academic probation). Transfer grades, with scores of "C" or higher and hours completed will be taken into consideration as will the students' prior Ferrum College academic records in making this determination.

Students meeting these standards will be considered in good standing. Academic penalties for not meeting these standards are Academic Warning, Academic Probation, and Academic Suspension. However, students with excessive absences or that refuse to complete assigned coursework may be subject to suspension at anytime. Students listed on academic probation status will (see Financial Aid Policy) need to submit a letter of appeal to the Financial Aid Appeals Committee for review of financial aid eligibility.

Official student records are maintained in the Office of the Registrar. Students should email this office for any question regarding academic status at roffice@ferrum.edu.

### Academic Warning

At the end of any semester, if a student in good academic standing fails to meet the published standards (See chart above) and has passed at least six hours, he or she will be placed on academic warning.

A student on academic warning attend a required College Skills course (CSK 092) and use the Academic Resource Center (ARC) and other appropriate campus resources. Students not adhering to the criteria of academic warning may be subject to suspension at anytime. Placement of academic warning will also impact a student's financial aid eligibility. See "Financial Aid Policies".

A student can remain on academic warning for only one semester. At the end of that semester, if he or she has complied with the program of study for students on academic warning and has met the published standards (see SAP Chart), he or she will return to good standing. If not, he or she will either be placed on academic probation or academic suspension.

### Academic Probation

A student who has been on academic warning, and is unable to return to good standing but has passed at least six hours, will be placed on academic probation.

A student on academic probation must attend a required College Skills course (CSK 096) and use the ARC and other appropriate campus resources. Students on academic probation will analyze behaviors, academic strategies and academic issues while planning their return to good standing.

Placement on academic probation will impact a student's financial aid eligibility. See "Financial Aid Policies". A student can remain on academic probation for only one semester. At the end of a semester of academic probation, if the
student meets the published standards (see SAP Chart), the student returns to good standing. If the student does not meet the published standards following a semester of academic probation, the student will be placed on academic suspension. Students not adhering to the criteria of academic probation may be subject to suspension at anytime.

Eligibility for participation in co-curricular activities is determined annually, at the beginning of each fall semester. Students on academic probation are ineligible to participate in the following co-curricular activities:

- Intercollegiate and club sports
- Touring performance groups
- Student Government Association (officers)
- Club Organizations Officers
- Art shows and major theatre productions unless required for satisfaction of course requirement
- Student media organizations (editors and managers) unless required for satisfaction of course requirement
- Study Away

Students on academic probation during the fall semester may participate in these activities during the spring semester provided they have returned to good academic standing. In addition, individual teams, clubs, and organizations may enforce stricter eligibility standards than these minimum standards.

**Academic Suspension**

A student who has been on academic probation, and is unable to return to good standing but has passed at least six hours, will be placed on academic probation.

- A student on academic suspension may not be enrolled during the next regular semester at Ferrum College.
- Students seeking readmission following academic suspension should show evidence of being able to do successful coursework at Ferrum College. This is normally accomplished during the summer at Ferrum College or by successful coursework earned at another accredited institution.
- A student suspended at the end of the spring semester may seek readmission on the basis of work completed during the summer.
- Student must seek approval from the Office of the Registrar prior to enrolling in a course at another institution by using the Request to take Courses Elsewhere form.
- An official transcript must be sent to the Office of the Registrar.
- Students must earn a "C" or higher in order for courses to transfer back to Ferrum College.

Students not adhering to the criteria of academic suspension may be subject to suspension at anytime.

Academic appeals of suspension must be made in writing to the Academic Standards Committee following directions provided in the student's letter of suspension. No student may return to the College either part-time or full-time without following the appeals procedure outlined in his or her suspension letter. Students who submit an appeal to the Academic Standards Committee should also submit an appeal for review of Financial Aid eligibility to the Financial Aid Appeals Committee (See Appeals Process under Financial Aid Policies). Readmission to the College does not guarantee approval of Financial Aid.

**Financial Aid Policies**

**Using Federal Financial Aid for Repeating Courses**

Federal regulations prohibit the Financial Aid Office from awarding aid to any student who is not making satisfactory academic progress. The satisfactory academic progress policy applies to all sources of Title IV financial aid programs (including Stafford and PLUS loans) with the exception of the Virginia TAG grant and selected Ferrum College
entitlement grants which do not have an academic requirement for renewal. Satisfactory Academic Progress will be reviewed at the end of each semester.

Federal guidelines limit the use of federal financial aid when repeating courses. The first time that a student repeats a passed course with a grade of "D" or higher to improve Grade Point Average (GPA), it is permissible to use federal financial aid. However, if the same course is repeated a second time, the course will not be counted in the student's total credit hours for the semester, possibly making the student part-time and therefore losing full-time federal financial aid. Students may retake failed courses with no reduction in federal financial aid.

Definitions

Financial Aid Warning: Financial Aid Warning occurs when a student does not make Satisfactory Academic Progress standards as listed above for the first time after a semester of good academic standing. Students who are placed on financial aid warning will retain their eligibility for financial aid for the next semester.

Financial Aid Probation: At the end of any semester during which the student has been on Financial Aid Warning, if the student does not return to good academic standing they are considered ineligible for Financial Aid. Students may appeal their financial aid status (see Appeals Process). If the appeal is approved by the Financial Aid Appeals Committee, the student will be placed on Financial Aid Probation for one semester and students may be required to complete an Academic Plan with the student's academic advisor (see Academic Plan section below).

Policy

Student folders are reviewed each semester when final grades and academic standing lists become available. For those students attending E-Term, those folders will be reviewed after completion of E-Term coursework. The student's name is checked against the academic warning, probation and suspension lists provided by the Office of the Registrar. If the student is on academic probation, or suspension, he/she is determined to be ineligible to receive financial aid for the subsequent semester. A notification letter is sent to the student by the Office of Financial Aid regarding his/her financial aid status and right to appeal. If the student later notifies us that he/she has been able to make up the deficiency during the summer for the next fall semester, the reviewer will obtain updated academic progress confirmation from the Office of the Registrar and mark the folder accordingly. The student will then be reviewed for financial aid for the next semester.

Academic semesters are defined by the Academic Standards Committee each year. Traditionally, the fall semester begins in August/September and ends in December. The spring semester begins in January and ends in April/May. There are 15 weeks as required by law to award Title IV funds. Ferrum College is currently a credit hour based institution with two traditional terms and one experiential term (E-Term) in May that is at no additional tuition cost to the student for their first required course. Payment periods are determined on a per year basis, unless the student has notified the Financial Aid Office that his/her enrollment plans will be on a per semester basis.

Students who do not meet satisfactory progress at the end of the spring semester may be able to meet standards by attending summer school. The students must work with their advisor and/or any resources available to determine which courses are appropriate for completion in summer school.

Students will be reviewed for compliance at the end of each semester. Financial Aid Policies apply to all students regardless of enrollment status.

Financial Aid Appeals Process
Students who are not making Satisfactory Academic Progress and have lost their financial aid eligibility have the right to appeal their financial aid status based on extraordinary or extenuating circumstances.

Extenuating circumstances include: death in the family, injury or illness of the student or family member, documented disability, or other extenuating circumstances not mentioned above. Students may also appeal the 150% maximum time-frame requirement based on extraordinary or extenuating circumstances as discussed above. The student will have met the 150% requirement if they have accumulated 182+ credit hours.

Students also entering their sixth year of coursework will be required to appeal for financial aid, based on length of time of their program.

To appeal the 150% maximum time-frame or sixth year limitations, the student must submit a letter of appeal to:

Financial Aid Appeals Committee  
C/O Office of Financial Aid  
P.O. Box 1000  
Ferrum, VA 24088

or by email at finaid@ferrum.edu, detailing why additional time is necessary to complete the degree and when the student expects to complete his/her program of study.

To appeal for financial aid based on academic standing, the student must submit a letter of appeal online at https://www.ferrum.edu/financial-aid/ by clicking the link "Financial Aid Appeals for Satisfactory Academic Progress (SAP)".

Appeals MUST contain: Why the student failed to make Satisfactory Academic Progress, and what the student will do, or what has changed in the student's situation that will allow him/her to demonstrate Satisfactory Academic Progress at the next evaluation. Appeals MUST be detailed regarding the circumstances that affected the student's ability to maintain academic progress.

Students will be notified by e-mail when a determination has been made by the Financial Aid Appeals Committee.

Students are not guaranteed eligibility for financial aid through the appeals process.

Financial Aid Academic Plan

Students who have failed to meet Satisfactory Academic Progress requirements and who will require more than one semester to return to good standing may be eligible to regain eligibility for financial aid by completing an academic plan. The student must first appeal to the Financial Aid Appeals Committee as detailed above. If the appeal is approved, the student will work closely with his/her advisor to develop an academic plan that will have the student back in good academic standing within a specific time frame as designated in the approved academic plan.

DEGREES

Catalog Home
Undergraduate Program of Study

Ferrum College awards the Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Bachelor of Fine Arts (B.F.A.), and Bachelor of Social Work (B.S.W.) degrees, depending on the major that students pursue. All degree candidates must complete at least 121 hours of coursework, of which 30 hours must be at the 300-400 level, with at least a 2.0 cumulative grade point average within their academic major. At least 50% of the hours required for a major or a minor must be completed at the College. (This requirement may be waived at the discretion of the program coordinator in association with the School Dean.) Please refer to the detailed listing for graduation requirements.

The undergraduate program of study consists of two complementary parts: General Education requirements and Major requirements. Students must complete both sets of requirements to earn the Bachelor's degree. Some Majors may require the completion of a Minor as well. Students may also meet a Minor requirement by completing a second Major.

General Education Requirements

The General Education requirements are designed to provide students with a breadth of knowledge, skill, and understanding that will prepare them to perform successfully as well-informed citizens and professionals in their community, nation, and world. General Education courses also provide an enriching context for the in-depth study required in every major. All students, regardless of their major program of study, must complete the General Education requirements.

The General Education requirements are divided into two types: Foundations courses introduce students to the full range of academic disciplines traditionally associated with college-level education, including the arts, humanities, social sciences, mathematics, and sciences. Perspectives and Interactions courses allow students to engage actively with that breadth of knowledge by developing their abilities to analyze, connect, evaluate, persuade, and communicate. Ferrum College is firmly committed to the idea that the combination of Foundations and Perspectives and Interactions courses in the General Education curriculum provides students with the strengths they need to realize their individual potential and to engage meaningfully in the world around them.

Foundations: the Liberal Arts Requirements

A multidisciplinary range of courses selected from all the academic schools of the College provides the foundation upon which the Ferrum College curriculum is built. All Bachelor's degree students at the College must complete courses that fulfill the 37-hours of requirements in the Liberal Arts. A detailed list of these requirements is provided on the following page.

Perspectives and Interactions: the Skills Requirements

In combination with the Foundations requirements, the Perspectives and Interactions requirements are designed to develop the level of awareness and essential skills necessary to interpret, evaluate, and utilize knowledge. (Please note that some of these courses may simultaneously fulfill some of the Foundations and Major / Minor requirements.) Students must complete courses that allow them to develop their abilities and understanding in the following important areas:

Oral Communication (Courses Designated as Speaking Intensive)
Speaking Intensive (SI) courses prepare students to enter their careers and communities with the ability to share ideas and information through effective oral presentation. For a detailed description of how to complete this requirement, please see Oral Communication.

**Written Communication (Courses Designated as Writing Intensive)**

Writing Intensive (WI) courses, offered within a variety of disciplines, challenge students to develop their writing skills beyond the fundamental level established in first-year English Composition courses. In WI courses, students strengthen their abilities in the effective written presentation of research, analysis, synthesis, evaluation, and argument. For a detailed description of how to complete this requirement, please see Written Communication.

**Foundations Courses: Fulfilling the Liberal Arts Requirements**

Liberal Arts Requirements

**Perspectives and Interactions Courses: Fulfilling the Skills Requirements**

(Note: some of these courses may also count towards fulfilling requirements in other General Education areas or in particular Majors and Minors.)

Students must complete requirements in the following categories:

**Oral Communication: Fulfilling the Speaking Intensive (SI) Requirement**

Speaking Intensive (SI) Requirement

**Writing in the Curriculum**

Ferrum College considers writing a vital academic process, a special mode of learning, and one of the best available indicators of a student's ability to think. Therefore, the faculty expects students to show increasing skill in stating logical, unified ideas, developing concepts, organizing appropriate formats, and using language both correctly and effectively. To help students attain this goal, the faculty expects that the regular instructional program of the College will teach writing skills throughout the student's four-year program of study.

1. All students must complete one full year of freshman composition, one course in sophomore literature, and the College Writing Intensive requirement. The faculty expects that these courses will develop the fundamentals by which all students' writing skills will improve during the junior and senior years.
2. To support students in their development as writers, Ferrum College provides a faculty-staffed Writing Center where students can receive individualized professional assistance with any writing project.
3. The College also offers a Fundamentals of Writing course for students who need additional preparation before entering the traditional freshman composition courses.
4. Individual departments may establish additional writing elements for their classes.

Written Communication: Fulfiling the Writing Intensive (WI) Requirement

Students can fulfill the WI requirement by completing six hours of courses designated as Writing Intensive with a grade of "C" or higher in the writing assignments. At least three hours of Writing Intensive courses must be at the 300-400 level. (Completing ENG 102 with a grade of "C" or higher is a prerequisite for registering for any Writing Intensive course.)

Students who have completed one 200-level literature course (ENG 200, ENG 201, ENG 202, ENG 203, ENG 204, ENG 205, ENG 206, ENG 207, ENG 209, ENG 210, ENG 211, ENG 212, ENG 213, ENG 214, ENG 215) to meet the Liberal Arts Requirements may fulfill three hours of the WI requirement by earning a "C" or better in a second 200-level literature course (ENG 200-ENG 215) or in an upper-level foreign language literature class or SPA 403 or SPA 404.

All courses used to satisfy the Writing Intensive requirement must be taken at Ferrum College. Students who wish to transfer courses specifically designated as writing intensive at other institutions may appeal to the Dean of the School of Arts and Humanities.

The list of Writing Intensive courses may vary from year to year; courses that can fulfill the requirement are not limited to those listed in the student's catalog year of entry. A listing of all courses that meet the writing intensive requirement (if successfully taken with a grade of "C" or higher) are found at the following link: Writing Intensive courses.

Experiential Learning: Fulfiling the Experiential Requirements

Experiential Learning courses involve students in direct experiences combined with focused reflection as a way to enhance knowledge and skills. This approach to education connects learning to the world beyond the classroom and links theory with practice. At Ferrum College, students must complete an Experiential Component, which is listed within each program of study in the College Catalog. In addition to the Experiential Component requirement, student must pass at least one course in the Experiential Term (E-Term). E-Term is conducted in the three weeks immediately following Commencement and includes a choice of both on-campus and travel courses in a variety of disciplines. E-Term courses may also apply to other General Education and/or Major/Minor requirements.

A majority of E-Term courses do not have prerequisites and are appropriate for most students, even those entering their second or third semester of college. Courses offered in E-Term vary from year to year; a complete list of choices will be available for consideration during registration for the Spring Semester. Credits for E-Term courses may also apply to other requirements in majors / minors and the General Education curriculum.

Costs for E-Term: For full-time students, there are no additional tuition or room/board costs for the required E-Term session. Any supplementary course costs for travel, materials, laboratory use, etc. in an E-Term course will be listed with the course description as a course fee during preregistration and then applied to the student's account upon registration. Students are obligated to pay all non-refundable course fees if they do not drop the E-Term course by the fourth week of the spring semester.
Part-time students will be charged for an E-Term course at the credit hour rate that is applied to regular semester courses.

Limited scholarships for travel courses are available; contact the Director of E-Term for further information.

If a student wishes to take more than the one required E-Term course, tuition and room/board costs will be applicable at the current per credit hour rate.

**Registering for E-Term:** Currently enrolled full-time and part-time students will generally register for an E-Term course when they register for Spring Semester; the last possible date to register for E-Term is the last "add" date during the first week of the Spring Semester.

An E-Term course does not count as part of the 12-hour load required for full-time status. If a student is registered for 18-19 hours in the Spring Semester, adding an E-Term course may put the student in "overload" status for that semester, but overload fees will not be applied.

Students' academic standing will determine their eligibility for enrollment in E-Term travel courses (see guidelines in Academic Progress and Financial Aid Eligibility).

Regardless of the timing of enrollment, all students must abide by specific course enrollment requirements, which may include interviews or seeking the approval of the instructor. A student enrolling for an E-Term course after the typical November registration must accept decisions already made by the instructor in any missed class meetings and agree to any additional restrictions set by the course instructor to insure student safety.

The last day to drop an E-Term course is the first day of E-Term classes.

## Satisfactory Academic Progress Impact on E-Term Participation

Students who are in good academic standing or have been placed on academic warning may register for any E-Term course and are eligible for travel scholarship opportunities.

Students who are on academic probation or who are on disciplinary probation or higher during the fall semester may not register for an E-Term course that has overnight or off campus travel but they will be eligible to register for on campus E-Term courses.

If the student is not meeting satisfactory academic progress at the end of the fall semester, the following factors apply:

- Students placed on academic warning for the spring semester, will remain in the E-Term course and will be allowed to retain any travel scholarship that has been awarded.
- Students placed on academic probation for the spring semester, will be dropped from any enrolled E-Term course that has overnight off campus travel. All fees will be refunded and any travel scholarship award will be forfeited.
- Students placed on academic suspension for the spring semester, will be withdrawn from all classes for the spring semester, including the E-Term course. If the student appeals the academic suspension and is allowed to return for the spring semester on probation, the student will not be allowed to enroll in any E-Term course involving overnight off campus travel.

Students who were on probation during the fall semester and return to good standing by the beginning of the spring semester, may register for any E-Term course, including overnight off campus travel during add week in the spring semester. Students opting to do this will be responsible for payment of applicable deposits and fees.
Students placed on disciplinary probation or higher after spring registration or during the spring semester will be removed from the E-Term overnight off campus travel course. The student will be responsible for applicable deposits and fees.

Students who choose to drop an E-Term course due to poor performance in multiple Spring Semester classes may be responsible for all applicable deposits and fees.

Students whose grades in spring semester (excluding the E-Term course) result in academic suspension will be withdrawn from the enrolled E-Term course. Students will be responsible for applicable deposits and fees.

**Graduation Requirements**

Students must utilize online Eight-Semester plans and assistance of faculty advisors in the formulation of an acceptable course of study leading to a degree. Students should review their progress frequently by using the Panther Portal "Academic Planning" link and "Program Evaluation" link to be sure they are in compliance with all degree requirements. Both the student and the advisor will review the catalog, program evaluation and academic planning tool each semester and adjust the academic plan based on the course rotations and schedule of offerings. Prior to registration, all second semester sophomore and junior students will be provided with an audit and pre-graduation clearance from the Office of Advising.

Students reaching Senior status will be required to complete a Graduation Clearance and Diploma Order form with their Advisor. The student and the advisor will update the student's academic plan. The completed Graduation Clearance and Diploma Order forms must be submitted to the Office of the Registrar for approval. The student is ultimately responsible for ensuring compliance with all degree requirements.

To graduate, a student must:

- complete the Graduation Clearance and Diploma Order form from the Office of the Registrar by early October of the Fall Semester prior to May graduation.
- successfully complete 121 semester hours, with 30 of these hours at the 300-400 level, maintaining a grade point average of at least 2.0 for hours earned at Ferrum College. Students must also maintain a 2.0 grade point average within their academic major.
- meet the appropriate Liberal Arts Core Requirements and major/minor requirements (including Program Specific Requirements, Experiential Component, and pass one E-Term).
- satisfy the Speaking and Writing Intensive requirements.
- satisfy the Global Awareness, Integrated Learning and Quantitative Reasoning requirements (see Transfer Credit Policy if a transfer student, or Regulations Governing Catalog if changing a program of Study after the first year of enrollment.
- be enrolled for at least one academic year or its equivalent at Ferrum College.
- have completed at least 50% of total hours required for a major at Ferrum College. The Program Coordinator can recommend that this requirement be waived. It must be approved by the School Dean.
- have completed at least 50% of total hours required for a minor at Ferrum College. The Program Coordinator can recommend that this requirement be waived. It must be approved by the School Dean.
- complete the last semester of academic work at Ferrum College. A student may transfer a maximum of nine semester hours of work back to the College to complete the requirements for graduation. More than nine hours must have the approval of the Academic Standards Committee.
- clear all financial obligations to the College.

To participate in graduation, a student may not fall short of the required minimum of 121 credit hours by more than one course or an internship. Also students must have attained at least a 2.0 cumulative and major grade point averages. Students lacking a course or internship must submit proof of summer registration to the Office of the Registrar to complete the work prior to the beginning of the next fall term. All degree candidates are encouraged to participate in graduation exercises.
Programs of Study (Majors)

A major is a focused, disciplinary or interdisciplinary program of academic concentration. There are two kinds of majors at Ferrum College: those which require a minor and those which do not. If a program of study requires a minor, a student may choose to satisfy that minor by completing a second major. Every bachelor's degree candidate must complete a major. Programs of more than 39 hours are normally interdisciplinary with significant content drawn from two or more disciplines. A major may require up to 57 hours of which no more than 39 hours can be required in a single discipline or subject designation. In addition to the particular courses required in the major, a school may specify up to 20 hours within the general college Liberal Arts requirement. Note: At least 50% of the required courses for any major must be completed at the College.

Program Specific Requirements

These requirements may consist of up to 12 hours of additional coursework as designated by the Program (major) and may include, but are not limited to: foreign language, accounting, computer science, PHI 101, BUS 230, COM 201 additional laboratory science, additional mathematics, etc.

Minors

Minors are groups of related courses with at least 9 hours at the 300-400 level (6-8 hours may be considered adequate depending upon the nature of student learning in the proposed courses in the minor, and upon a strong and compelling rationale for less than 9 hours). Such a proposal must be approved through the full faculty approval process. Except for the teacher education minor, minors contain 18-21 hours. Note: At least 50% of the required courses for any minor must be completed at Ferrum College.

Declaring/Changing Programs (Majors)/Minors

Students may declare programs (majors), and minors with their academic advisor. The advisor will complete a Program Change Request Form available under Advising from Faculty & Staff Services on the Panther Portal. Students must discuss their desired program shifts with their advisors to insure complete understanding of the requirements and options involved and to avoid any loss of time and credits.

The catalog for the year in which a student enters Ferrum College is the governing document for requirements for graduation. However, students who change their program of study after their first year of enrollment must apply the regulations in the current year's catalog. Students must submit a new degree plan indicating the catalog change.

Earning a Second Degree

A student currently working on a first baccalaureate may acquire a second major or minor by completing the courses and hours required. If a student wishes to earn two different degrees simultaneously (i.e., seeking a B.A. and a B.S.), instead of one degree with multiple majors, he or she must meet the conditions listed below.

A second baccalaureate degree may be earned by persons who already hold a bachelor's degree from Ferrum College or from another accredited institution. A student who enters Ferrum College to work on a second degree shall be classified academically as a senior. To earn a second degree, the student must meet the following requirements:
1. All Liberal Arts Requirements in effect at the time of the second degree must be completed (either by current or previous coursework);
2. The student must meet all prerequisite and course requirements in the major field of the second degree, with at least half of the required courses in the major taken at Ferrum College;
3. The student must complete at least 30 hours of additional coursework at Ferrum College beyond the earned hours of the first degree;
4. The student must earn a cumulative grade point average of 2.0 or higher in coursework completed for the major and second degree;
5. A person seeking a second degree must be admitted through the regular admissions process.

Programs (Majors and Minors)

Program

Accounting, B.S.

The accounting major is an interdisciplinary major designed to prepare students with the knowledge, the analytical ability and the skills to succeed in the managerial, governmental, non-profit or systems fields of accounting, or in graduate school. It is supported by a strong liberal arts education and an extensive selection of courses in business and economics. It is a very demanding and challenging major; students majoring in accounting are expected to achieve grades of "C" or better in their accounting courses in order to continue in the program.

Experiential Component (Complete 2 Credit Hours from Following Courses):

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- ACC 499 - Accounting Internship 3 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 499 - Internship 3 Credit(s).

Liberal Arts and Program Specific Requirements (9 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses for the Major (39 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ACC 301 - Managerial Accounting 3 Credit(s).
- ACC 302 - Intermediate Accounting I 3 Credit(s).
- ACC 303 - Intermediate Accounting II 3 Credit(s).
- ACC 403 - Auditing 3 Credit(s).
- ACC 405 - Taxation 3 Credit(s).
- ACC 498 - Senior Seminar in Accounting 3 Credit(s).
- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).

Choose Four of the Following Courses (12 Credit Hours)

At least two must be accounting courses and one must be either ACC 408 or BUS 325.

- ACC 304 - Advanced Accounting Theory 3 Credit(s).
- ACC 306 - Government and Nonprofit Accounting 3 Credit(s).
- ACC 380 or 480 - Topics in Accounting Variable hours Credit(s).
- ACC 401 - Advanced Studies in Cost Accounting 3 Credit(s).
- ACC 407 - International Accounting 3 Credit(s).
- ACC 408 - Accounting Software Applications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 314 - Advanced Corporate Finance 3 Credit(s).
- BUS 325 - Advanced Computer Applications 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
- BUS 331 - Production/Operations Management 3 Credit(s).
- ECO 313 - Money and Banking 3 Credit(s).
- ECO 400 - International Finance 3 Credit(s).
- ECO 405 - Government and Business 3 Credit(s).

Total Credit Hours Required in Major: 53-54

Total Credit Hours Required in Degree: 121

Experiential Component Hours 2 – 3 (are counted in the major hours)

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.250 grade point average is a prerequisite for the internship.

Students have the opportunity to enroll in specialized courses in accounting.

**Agricultural Sciences, Agribusiness Emphasis, B.S.**

**Agricultural Sciences**

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly
integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.

Experiential Component (Complete 1 of the Following Courses:)

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).
Agribusiness Emphasis

Required Courses (29-30 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
  OR
- BUS 313 - Business Finance 3 Credit(s).
  OR
- BUS 318 - Introduction to Electronic Commerce 3 Credit(s).
- BUS 320 - Entrepreneurship 3 Credit(s).
- Choose TWO from: AGY, ASI, HOR Credit Hour(s): 7-8

Total Credit Hours Required for Agricultural Sciences with Agribusiness Emphasis: 50-51

Total Credit Hours Required in Degree: 121

Agricultural Sciences, Animal Science Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.
Experiential Component (Complete 1 of the Following Courses:)

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Animal Science Emphasis

Required Courses (34 Credit Hours)

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ASI 232 - Livestock Evaluation and Judging 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).
Choose TWO from the Following Courses

- CRP 301 - Principles of Field and Forage Crop Production 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- HOR 321 - Plant Propagation 4 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Total Credit Hours Required for Agricultural Sciences with Animal Science Emphasis: 55

Total Credit Hours Required in Degree: 121

Agriculture Education Endorsement

Ferrum College also offers teacher licensure in vocational agriculture (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education Minor). Besides the Liberal Arts and Program Specific Requirements and the required major common courses in agricultural sciences, Agricultural Sciences majors seeking a secondary teacher endorsement must complete the following courses in either Animal Science or Horticulture emphasis areas:

Animal Science

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ASI 232 - Livestock Evaluation and Judging 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 419 - Plant Physiology and Biotechnology 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Agricultural Sciences, Crop Science Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study
within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad “hands-on” approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.

Experiential Component (Complete 1 of the Following Courses:)

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Crop Science Emphasis
Required Courses (36 Credit Hours)

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- CRP 301 - Principles of Field and Forage Crop Production 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- BIO 419 - Plant Physiology and Biotechnology 4 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Choose TWO from the Following Courses

- HOR 321 - Plant Propagation 4 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).

Total Credit Hours Required for Agricultural Sciences with Crop Science Emphasis: 57

Total Credit Hours Required in Degree: 121

Agricultural Sciences, Equine Studies Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furtherfs this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.
Experiential Component (Complete 1 of the Following Courses:)

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).

- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).

- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Equine Studies Emphasis

Required Courses (25 Credit Hours)

- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ASI 205 - Horse Science 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 325 - Stable Management 3 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).
Additional Requirements for Equine Studies

Liberal Arts Requirements (3 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).

Program Specific Requirements (3 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).

Total Credit Hours Required for Agricultural Sciences with Equine Studies Emphasis: 46

Total Credit Hours Required in Degree: 121

Agricultural Sciences, Horticulture Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.

Experiential Component (Complete 1 of the Following Courses:)

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)
- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s).
  OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Horticulture Emphasis

Required Courses (35 Credit Hours)

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
  OR
- BIO 305 - Introductory Genetics 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 301 - Invertebrate Zoology 4 Credit(s).
- BIO 419 - Plant Physiology and Biotechnology 4 Credit(s).
- HOR 321 - Plant Propagation 4 Credit(s).
- HOR 410 - Greenhouse Management 4 Credit(s).
- HOR 411 - Landscape Design and Management 4 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
• HOR 418 - Plant Pest Management 4 Credit(s).

Total Credit Hours Required for Agricultural Sciences with Horticulture Emphasis: 57

Total Credit Hours Required in Degree: 121

Agriculture Education Endorsement

Ferrum College also offers teacher licensure in vocational agriculture (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education Minor). Besides the Liberal Arts and Program Specific Requirements and the required major common courses in agricultural sciences, Agricultural Sciences majors seeking a secondary teacher endorsement must complete the following courses in either Animal Science or Horticulture emphasis areas:

Horticulture

• AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
• CRP 315 - Soil Science and Management 4 Credit(s).
• HOR 321 - Plant Propagation 4 Credit(s).
• HOR 410 - Greenhouse Management 4 Credit(s).
• HOR 411 - Landscape Design and Management 4 Credit(s).
• HOR 418 - Plant Pest Management 4 Credit(s).

Art (Minor Required), Graphic Design Emphasis, B.A.

Art

The goal of the art program is to provide an excellent educational experience that develops technical skills, critical and aesthetic judgment, and a sound knowledge of the visual arts appropriate to students seeking a general appreciation of the arts as well as to aspiring fine arts professionals. The faculty engage students in the discipline of visual art as a major component in the liberal arts tradition including studio practice and art history. Students complete a common group of foundation and art history courses and then choose an emphasis area to develop a solid yet individualized program.

Experiential Component (Complete 1 of the Following Courses:)

• ART 497 - Senior Studio 3 Credit(s).
• ART 398 - Artist Practices 3 Credit(s).
• ART 498 - The Senior Exhibition 3 Credit(s).

Common Required Courses (24 Credit Hours)
Foundations (Choose 6 credit hours)

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 104 - Drawing Fundamentals 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).

Art History & Theory (9 Credit Hours)

- ART 320 - Ancient Through Medieval Art in History 3 Credit(s).
- ART 321 - Renaissance to Impressionist Art in History 3 Credit(s).
- ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

Advanced Study (9 Credit Hours)

- ART 398 - Artist Practices 3 Credit(s).
- ART 497 - Senior Studio 3 Credit(s).
- ART 498 - The Senior Exhibition 3 Credit(s).

Graphic Design Emphasis (15 Credit Hours)

Liberal Arts Requirements (3 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).

Program Specific Requirements (6 Credit Hours)

- BUS 304 - Advertising 3 Credit(s).
- COM 101 - Introduction to Mass Communication 3 Credit(s).

Introduction to Media (9 Credit Hours)

- ART 222 - Basic Computer Graphics 3 Credit(s).
- ART 215 - Photoshop 3 Credit(s).
- ART 232 - Web Design X 3 Credit(s).

Studio Practice (6 Credit Hours)

- ART 322 - Graphic Print Media 3 Credit(s).
- ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121
Art (Minor Required), Studio Arts Emphasis, B.A.

Art

The goal of the art program is to provide an excellent educational experience that develops technical skills, critical and aesthetic judgment, and a sound knowledge of the visual arts appropriate to students seeking a general appreciation of the arts as well as to aspiring fine arts professionals. The faculty engage students in the discipline of visual art as a major component in the liberal arts tradition including studio practice and art history. Students complete a common group of foundation and art history courses and then choose an emphasis area to develop a solid yet individualized program.

Experiential Component (Complete 1 of the Following Courses:)

- ART 497 - Senior Studio 3 Credit(s).
- ART 398 - Artist Practices 3 Credit(s).
- ART 498 - The Senior Exhibition 3 Credit(s).

Common Required Courses (24 Credit Hours)

Foundations (Choose 6 credit hours)

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 104 - Drawing Fundamentals 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).

Art History & Theory (9 Credit Hours)

- ART 320 - Ancient Through Medieval Art in History 3 Credit(s).
- ART 321 - Renaissance to Impressionist Art in History 3 Credit(s).
- ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

Advanced Study (9 Credit Hours)

- ART 398 - Artist Practices 3 Credit(s).
- ART 497 - Senior Studio 3 Credit(s).
- ART 498 - The Senior Exhibition 3 Credit(s).

Studio Arts Emphasis (15 Credit Hours)

(This emphasis can be used for the Art Education Endorsement)

Students choosing the Studio Arts emphasis may not receive credit for an additional ART emphasis area without the approval of the Program Coordinator.
Introduction to Media (Choose 6 credit hours)

- ART 204 - Intermediate Drawing 3 Credit(s).
- ART 206 - Introduction to Ceramics 3 Credit(s).
- ART 217 - Introduction to Photography 3 Credit(s).
- ART 228 - Introduction to Sculpture 3 Credit(s).
- ART 230 - The Painting Studio 3 Credit(s).

Studio Practice (Choose 6 credit hours)

- ART 304 - Advanced Drawing 3 Credit(s).
- ART 306 - Intermediate Ceramics 3 Credit(s).
- ART 317 - Intermediate Photography 3 Credit(s).
- ART 328 - Intermediate Sculpture 3 Credit(s).
- ART 330 - Intermediate Painting 3 Credit(s).

Advanced Study (Choose 3 credit hours)

- ART 406 - Advanced Ceramics 3 Credit(s).
- ART 411 - Figure and Anatomy 3 Credit(s).
- ART 417 - Advanced Photography 3 Credit(s).
- ART 428 - Advanced Sculpture 3 Credit(s).
- ART 430 - Advanced Painting 3 Credit(s).
- ART 450 - Directed Study in Advanced Studio Problems 3 Credit(s).
- ART 499 - Internship 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Biology, B.S.

The Biology curriculum is designed to introduce students to the major areas of the biological sciences and to enable them to gain competence in using the concepts and investigative methods appropriate to each. Students may select a course of study suited to their particular interests with emphases in botany, zoology, cellular biology, or physiology. Students may pursue independent study and research in areas ranging from biotechnology to field research, may assist professors in their investigations, and may serve as laboratory and teaching assistants in the courses. Biology students receive preparation that enables them to enter a variety of professional careers or to continue their studies in graduate and professional schools.

Experiential Component (Complete the Following Courses):

- BIO 110 - Introductory Biology I 4 Credit(s).
- BIO 111 - Introductory Biology II 4 Credit(s).
• BIO 201 - Vertebrate Zoology 4 Credit(s).
  OR
• BIO 301 - Invertebrate Zoology 4 Credit(s).
  OR
• BIO 254 - Human Anatomy and Physiology I 4 Credit(s).

• BIO 202 - Introduction to Plant Science 4 Credit(s).
  OR
• BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).

• BIO 305 - Introductory Genetics 4 Credit(s).
  OR
• BIO 330 - Cell Biology 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 104 - General Chemistry II 4 Credit(s).

• MTH 111 - Pre-Calculus I 3 Credit(s).
  OR
• MTH 112 - Pre-Calculus II 3 Credit(s).
  OR
• MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements (8 Credit Hours)

• CHM 301 - Organic Chemistry I 4 Credit(s).

• PHY 201 - General Physics I 4 Credit(s).
  OR
• PHY 203 - Fundamentals of Physics 4 Credit(s).

Required Courses (43-45 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s).
• BIO 111 - Introductory Biology II 4 Credit(s).

• BIO 201 - Vertebrate Zoology 4 Credit(s).
  OR
• BIO 301 - Invertebrate Zoology 4 Credit(s).
  OR
• BIO 254 - Human Anatomy and Physiology I 4 Credit(s).

• BIO 202 - Introduction to Plant Science 4 Credit(s).
  OR
• BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).
  OR
BIO 311 - Field Botany 4 Credit(s).

BIO 230 - Introduction to Cell and Molecular Biology 3 Credit(s).
BIO 305 - Introductory Genetics 4 Credit(s).

BIO 330 - Cell Biology 4 Credit(s).
OR
BIO 303 - Microbiology 4 Credit(s).
OR
CHM 315 - Biochemistry 4 Credit(s).

ESC 203 - Fundamentals of Ecology 4 Credit(s).

ESC 205 - Tropical and Marine Ecology 4 Credit(s).
OR
ESC 206 - Community Ecology of the Southeast 4 Credit(s).
OR
ESC 207 - South African Ecology and Culture 4 Credit(s).
OR
ESC 208 - Ireland’s Natural History: Interaction of Nature and Culture 4 Credit(s).
OR
ESC 302 - Conservation Biology 3 Credit(s).
OR
ESC 321 - Aquatic Ecology 4 Credit(s).

MTH 208 - Introductory Statistics 3 Credit(s).
OR
ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).

NSM 398 - Junior Seminar 3 Credit(s). *
NSM 498 - Senior Seminar 3 Credit(s). *

Major Electives (12 Credit Hours @ 300-400 level)

12 hours from other BIO or approved Life Science courses all at the 300-400 level:

- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).
- ESC 302 - Conservation Biology 3 Credit(s).
- ESC 321 - Aquatic Ecology 4 Credit(s).
- ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
- PSY 333 - Biological Psychology 3 Credit(s).

Total Credit Hours Required in Major: 55-57
Total Credit Hours Required in Degree: 121

Business Administration, Business Analytics Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.

The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students' understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).
  Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).
  OR
- ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
- BUS 498 - Senior Seminar: Business Policy 3 Credit(s).
  OR
- ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Business Analytics Emphasis (24 Credit Hours)

The Business Analytics emphasis area focuses on the opportunity to achieve organizational goals, profit and non-profit, through the analysis of data and business processes. The application of data analysis has become integral to organizational competitiveness, customer satisfaction and growth as well as improving services to clients of non-profit agencies. Students studying Business Analytics will learn how to leverage data for improvement in organizational efficiency and effectiveness. They will learn how to use analytical skills to solve problems in an increasingly complex economic environment. Technology is an important component of Business Analytics program with SAS, VirtualBox or VMware, SPSS, Excel, Access and other software (as appropriate) being utilized to generate numerical results for analysis. Emphasis is placed on what data need to be investigated, interpreting the numeric results of the data, and writing concise reports. Application of the theories and principles from the required courses will be the hallmark of the Business Analytics program.

- ACC 409 - Equity and Bond Analysis 3 Credit(s).
Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Business Administration, Financial Management Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.

The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.
Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students' understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

OR

- ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
Financial Management Emphasis (24 Credits)

Financial Management involves the efficient acquisition and use of funds. Every organization, whether it is a large corporation or a small business, must be concerned with financial management. There are a number of job opportunities for financial planners, budgeting officers, analysts, and decision-makers. The financial management program prepares graduates for financially-oriented positions in business or in management of financial institutions such as banks, insurance companies, and brokerage houses.

- BUS 202 - Introduction to Investments 3 Credit(s).
- BUS 314 - Advanced Corporate Finance 3 Credit(s).
- ECO 313 - Money and Banking 3 Credit(s).
- ECO 400 - International Finance 3 Credit(s).
- Approved Electives (See below): 12 Credit Hour(s)

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Business Administration, Management Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.
The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students’ understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 401 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).

*Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.*

Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

*OR*
Common Required Courses (24 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
- BUS 498 - Senior Seminar: Business Policy 3 Credit(s).
  OR
- ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Management Emphasis (24 Credit Hours)

Management involves achieving results by the combination and use of all available resources in an organization. Because this task is complex, all managers must possess technical and conceptual skills as well as interpersonal and communications skills. Ferrum College’s program is designed to help students develop these skills. It is an appropriate program for those students planning to enter general management and for those whose career goal is to own their own businesses.

- BUS 320 - Entrepreneurship 3 Credit(s).
- BUS 325 - Advanced Computer Applications 3 Credit(s).
- BUS 331 - Production/Operations Management 3 Credit(s).
- BUS 403 - Human Resources Management 3 Credit(s).
- Approved Electives (See below) Credit Hour(s): 12

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Business Administration, Marketing Emphasis, B.S.
Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.

The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students' understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Liberal Arts and Program Specific Requirements (12 Credit Hours)
• ACC 201 - Principles of Accounting I 3 Credit(s).
• ACC 202 - Principles of Accounting II 3 Credit(s).
• ECO 201 - Principles of Macroeconomics 3 Credit(s).
• ECO 202 - Principles of Microeconomics 3 Credit(s).
• MTH 111 - Pre-Calculus I 3 Credit(s).
• MTH 208 - Introductory Statistics 3 Credit(s).

OR
• ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

• BUS 230 - Computer Applications 3 Credit(s).
• BUS 303 - Principles of Management 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• BUS 313 - Business Finance 3 Credit(s).
• BUS 315 - Business Law 3 Credit(s).
• BUS 330 - Quantitative Methods: Management 3 Credit(s).
• BUS 498 - Senior Seminar: Business Policy 3 Credit(s).

OR
• ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Marketing Emphasis (24 Credit Hours)

Marketing is the link between the organization and the consumer and involves planning and execution of the conception, pricing, promotion, and distribution of products. Ferrum College's marketing program gives students a basic understanding of marketing and its role in society and business. It prepares students for such fields as advertising, sales, marketing research, retail sales management, and Internet-based careers.

• BUS 304 - Advertising 3 Credit(s).
• BUS 305 - Professional Selling 3 Credit(s).
• BUS 316 - Retail Management 3 Credit(s).
• BUS 410 - Marketing Research 3 Credit(s).
• Approved Electives (See below) Credit Hour(s): 12

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48
Total Credit Hours Required in Degree: 121

Business Administration, Sports Management Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.

The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students' understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).
  Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).
  OR
- ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
- BUS 498 - Senior Seminar: Business Policy 3 Credit(s).
  OR
- ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Sports Management Emphasis (24 Credit Hours)

The growth of sports as a major industry has increased the need and opportunity for well-trained professional managers. A well rounded business education which includes Finance, Accounting, Management, Marketing and Quantitative Skills with a focus on sport management skills is essential in this rapidly growing field. Sport Management majors can expect to find careers in professional sports, sports and fitness clubs, golf clubs, ski areas, education, the media, athlete representation, nonprofit recreation for such organizations as the YMCA, Boy and Girls Clubs, community programs, intercollegiate athletics and in the consumer segment.

It is recommended that the student choosing the Sports Management Emphasis obtain a license in First Aid Response.

Students using Sports Management as their emphasis are encouraged to take REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration as one of their approved electives.
- HHP 402 - Organization and Administration of Sport 3 Credit(s).
- BUS 250 - Introduction to the Business and Economics of Sports 3 Credit(s).
- BUS 403 - Human Resources Management 3 Credit(s).
- REG 450 - Special Events Planning and Management 3 Credit(s).
- Approved Electives (See below) Credit Hour(s): 12

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Chemistry (Minor Required for B.A.), B.A. or B.S.

Chemistry is the central science whose boundaries reach into both biology and physics. Chemistry is the science concerned with the composition, structure, and properties of different substances, the correlation of substances' properties to their structures, and the energy changes accompanying the transformation of these substances.

A Ferrum College B.A. or B.S. in chemistry, together with the appropriate minor or supporting elective courses, will prepare a student to begin a career in business, industry, government, science, or secondary education. Students are prepared for graduate school in any of the fields of chemistry or related interdisciplinary areas such as toxicology, environmental engineering, materials science, or pharmacology. Some graduate programs in Forensic Science specify that a bachelor's degree in Chemistry (or other natural science) is required for admission. The chemistry major also makes the student competitive for entrance into professional schools in business or law, as well as the more traditional areas such as veterinary and human medicine and pharmacy.

The Experiential Component (requirement of the major) in this program is met by successful completion of all laboratory courses specified by the major.

B.S. Degree (Without Minor)

Liberal Arts Requirements (7 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements (7 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s), or higher
Choose one of the following courses:

- MTH 221 - Calculus II 3 Credit(s). OR
- MTH 322 - Calculus III 3 Credit(s).

Required Courses (54 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 305 - Analytical Chemistry 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).
- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
- CHM 425 - Inorganic Chemistry 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- PHY 203 - Fundamentals of Physics 4 Credit(s).
- PHY 204 - Fundamentals of Physics 4 Credit(s).

Choose 6 Credit Hours from the following list:

- CHM 331 - Forensic Science 4 Credit(s).
- CHM 220 - Principles of Pharmacology 3 Credit(s).
- CHM 190, 290, 390 or 490 - Special Topics 1-4 Credit(s).
- CHM 405 - Advanced Chemistry Laboratory 4 Credit(s). (E-Term only)
- CHM 412 - Environmental Chemistry 3 Credit(s).
- CHM 420 - Medicinal Chemistry 3 Credit(s).
- CHM 195, 196 to 495, 496 - Independent Research 1-3 Credit(s).

Total Credit Hours Required in Major: 54

Total Credit Hours Required in Degree: 121

B.A. Degree (Minor Required)

Liberal Arts Requirements (7 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s). OR
- BIO 111 - Introductory Biology II 4 Credit(s).
  AND
- MTH 203 - Concepts in Calculus 3 Credit(s). OR
- MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements (8 Credit Hours)

- PHY 201 - General Physics I 4 Credit(s). AND
- PHY 202 - General Physics II 4 Credit(s).
OR
- PHY 203 - Fundamentals of Physics 4 Credit(s). AND
- PHY 204 - Fundamentals of Physics 4 Credit(s).

Required Courses (39-41 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 305 - Analytical Chemistry 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).
- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 425 - Inorganic Chemistry 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).

Choose 2-4 Credit Hours from the following list:

- CHM 331 - Forensic Science 4 Credit(s).
- CHM 220 - Principles of Pharmacology 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
- CHM 190, 290, 390 or 490 - Special Topics 1-4 Credit(s).
- CHM 405 - Advanced Chemistry Laboratory 4 Credit(s).
- CHM 412 - Environmental Chemistry 3 Credit(s).
- CHM 420 - Medicinal Chemistry 3 Credit(s).
- CHM 195, 196 to 495, 496 - Independent Research 1-3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39-41

Total Credit Hours Required in Degree: 121

Students who intend to pursue graduate education in chemistry are strongly encouraged to pursue the B.S. degree and to take MTH 208 - Introductory Statistics, MTH 246 - Linear Algebra I, MTH 322 - Calculus III, and MTH 332 - Differential Equations in addition to the required MTH 211 - Calculus I course.

**Computer Technology and Information Systems, Computer Networks and Cybersecurity Emphasis, B.S.**

**Computer Technology and Information Systems**

Computer Technology and Information Systems is an interdisciplinary major that prepares students in the specialized areas of 1) Computer Networks and Cybersecurity, 2) Web Design and Programming Languages for Applications. Starting from a solid foundation in business and computer science concepts, students learn to appreciate and understand
the relationships between these two disciplines and the application of computer technology systems in business. The major prepares students to design and implement information decision support systems; hence, they can fill management, planning, and decision-making roles within any organization. In addition, the emphasis areas will further enable students to fill positions that require specialized skills in various computer technology areas. This major also prepares students for graduate studies in business, information systems, technology, or other related fields. Cybersecurity Emphasis: While data is increasingly providing a wealth of information and insight to corporations at their fingertips, it is also becoming detrimental in the wrong hands. With progressively more information traveling over the wires, the need for protection is greater now than ever before. This new track will therefore not only help prepare our graduates with the skills required to work in data security, but also help to narrow the skill shortage gap as being currently experienced in the industry.

Experiential Component (Complete 1 of the Following Courses:)

- CSC 230 - Web Design 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 499 - Internship 3-9 Credit(s).

Liberal Arts Requirements (6 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 234 - Mathematical Reasoning 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

- ACC 110 - Introduction to Accounting 3 Credit(s).
- CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s).
- OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (30 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 430 - Management Information Systems 3 Credit(s).
- CSC 229 - Programming Concepts and Algorithm Design 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 312 - Computer Organization 3 Credit(s).
- CSC 340 - Visual Basic for Applications 3 Credit(s).
- CSC 401 - Database Theory 3 Credit(s).
- CSG 455 - Systems Analysis and Design 3 Credit(s).
- CSC 498 - Senior Research Seminar (Capstone) 3 Credit(s).

Computer Networks and Cybersecurity Emphasis (26 Credit Hours)
- CJU 220 - Criminal Law 3 Credit(s).
- CSC 102 - Hardware Maintenance and Troubleshooting 3 Credit(s).
- CSC 145 - Social Networking Best Practices 3 Credit(s).
- CSC 345 - Advanced Networking Configuration and Management 3 Credit(s).
- CSC 350 - Operating Systems 3 Credit(s).
- CSC 435 - Fundamentals of Cybersecurity 3 Credit(s).
- CSC 445 - Digital Forensics and Cybercrime 3 Credit(s).
- SCI 144 - Science of Crime 2 Credit(s).

Total Credit Hours Required in Major (Depending on Emphasis Area):
54 – 56 Credit Hours

Total Credit Hours Required in Degree: 121

Computer Technology and Information Systems, Web Design and Programming Languages for Applications Emphasis, B.S.

Computer Technology and Information Systems

Computer Technology and Information Systems is an interdisciplinary major that prepares students in the specialized areas of 1) Computer Networks and Cybersecurity, 2) Web Design and Programming Languages for Applications. Starting from a solid foundation in business and computer science concepts, students learn to appreciate and understand the relationships between these two disciplines and the application of computer technology systems in business. The major prepares students to design and implement information decision support systems; hence, they can fill management, planning, and decision-making roles within any organization. In addition, the emphasis areas will further enable students to fill positions that require specialized skills in various computer technology areas. This major also prepares students for graduate studies in business, information systems, technology, or other related fields.

Cybersecurity Emphasis: While data is increasingly providing a wealth of information and insight to corporations at their fingertips, it is also becoming detrimental in the wrong hands. With progressively more information traveling over the wires, the need for protection is greater now than ever before. This new track will therefore not only help prepare our graduates with the skills required to work in data security, but also help to narrow the skill shortage gap as being currently experienced in the industry.

Experiential Component (Complete 1 of the Following Courses:)

- CSC 230 - Web Design 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 499 - Internship 3-9 Credit(s).

Liberal Arts Requirements (6 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 234 - Mathematical Reasoning 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

- ACC 110 - Introduction to Accounting 3 Credit(s).

- CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s).
  OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).

- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (30 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 430 - Management Information Systems 3 Credit(s).
- CSC 229 - Programming Concepts and Algorithm Design 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 312 - Computer Organization 3 Credit(s).
- CSC 340 - Visual Basic for Applications 3 Credit(s).
- CSC 401 - Database Theory 3 Credit(s).
- CSC 455 - Systems Analysis and Design 3 Credit(s).
- CSC 498 - Senior Research Seminar (Capstone) 3 Credit(s).

Web Design and Programming Languages for Applications Emphasis (24 Credit Hours)

- ART 222 - Basic Computer Graphics 3 Credit(s).
- BUS 318 - Introduction to Electronic Commerce 3 Credit(s).
- CSC 230 - Web Design 3 Credit(s).
- CSC 235 - Programming for Portable Devices 3 Credit(s).
- CSC 310 - Java Programming 3 Credit(s).
- CSC 320 - Programming Using C++ 3 Credit(s).
- CSC 321 - Data Structures 3 Credit(s).
- MTH 243 - Discrete Mathematics 3 Credit(s).

Total Credit Hours Required in Major (Depending on Emphasis Area): 54 – 56 Credit Hours

Total Credit Hours Required in Degree: 121

Criminal Justice, Criminology Emphasis, B.A. or B.S.
Criminal Justice

The Criminal Justice Program is designed to prepare students for careers in law, law enforcement, corrections, and social science research. Conceived with the idea that criminal justice professionals will benefit from a strong liberal arts education, the program stresses theory and policy analysis combined with professional experience. A Ferrum College criminal justice graduate will have strong oral and written communication skills as well as the ability to think critically and solve problems while recognizing the importance of high ethical standards.

Experiential Component (Complete 1 of the Following Courses:)

- CJU 499 - Internship 3 Credit(s).
- SOC 391 - Directed Study in Sociology 1-3 Credit(s).

Liberal Arts Requirements (6 Credit Hours)

- MTH 107 - Introduction to Finite Mathematics 3 Credit(s). OR
- MTH 111 - Pre-Calculus I 3 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).

Program Specific Requirements (6 Credit Hours)

- MTH 208 - Introductory Statistics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

B.S. Degree Requires Two Courses from the Following (6 Credit Hours)

- ACC 110 - Introduction to Accounting 3 Credit(s). OR
- ACC 201 - Principles of Accounting I 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- COM 201 - Public Speaking 3 Credit(s). OR
- THA 222 - Voice and Diction 3 Credit(s).
- CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s). OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s). OR
- BUS 230 - Computer Applications 3 Credit(s).
- ENG 461 - Professional Writing 3 Credit(s).

B.A. Additional Degree Requirements (6 Credit Hours)

Six hours of foreign language at the 200 level or higher.

Common Required Courses (33 Credit Hours)
• CJU 201 - Introduction to Criminal Justice 3 Credit(s).
• CJU 204 - Fundamentals of Corrections 3 Credit(s).
• CJU 220 - Criminal Law 3 Credit(s).
• CJU 300 - Dilemmas and Decision Making in Criminal Justice 3 Credit(s).
• CJU 314 - Courts and the Judicial Process 3 Credit(s).

• CJU 320 - Deviance and Social Control 3 Credit(s), OR
• SOC 320 - Deviance and Social Control 3 Credit(s).

• CJU 370 - Research Methods & Statistics in Criminal Justice 3 Credit(s).
• CJU 498 - Seminar 3 Credit(s).
• PSC 202 - State and Local Government 3 Credit(s).
• PSY 230 - Social Psychology 3 Credit(s).
• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).

Criminology Emphasis

This emphasis will allow students to have a broader background in the field of Criminal Justice. Students will be better prepared to work in many different areas of Criminal Justice, from Law Enforcement, Corrections, Juvenile Probation, Adult Probation, or enter graduate programs in criminal justice or law.

Required Emphasis Courses (24 Credit Hours)

• CJU 310 - Victimology 3 Credit(s).
• CJU 315 - Constitutional Law for Criminal Justice Professionals 3 Credit(s).
• CJU 340 - Interviewing and Crisis Intervention 3 Credit(s).
• CJU 350 - Crime and Delinquency Prevention 3 Credit(s).

• CJU 406 - Probation, Parole, and Community Corrections 3 Credit(s).
  OR
• CJU 311 - Restorative Justice 3 Credit(s).
  OR
• CJU 361 - Criminal Justice Administration and Leadership 3 Credit(s).

• PSY 320 - Abnormal Psychology 3 Credit(s).
• PSY 348 - Techniques of Counseling 3 Credit(s).
• SOC 202 - Social Problems 3 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Criminal Justice, Forensic Investigation Emphasis, B.A. or B.S.
Criminal Justice

The Criminal Justice Program is designed to prepare students for careers in law, law enforcement, corrections, and social science research. Conceived with the idea that criminal justice professionals will benefit from a strong liberal arts education, the program stresses theory and policy analysis combined with professional experience. A Ferrum College criminal justice graduate will have strong oral and written communication skills as well as the ability to think critically and solve problems while recognizing the importance of high ethical standards.

Experiential Component (Complete 1 of the Following Courses:)

- CJU 499 - Internship *3 Credit(s).*
- SOC 391 - Directed Study in Sociology *1-3 Credit(s).*

Liberal Arts Requirements (6 Credit Hours)

- MTH 107 - Introduction to Finite Mathematics *3 Credit(s).* OR
- MTH 111 - Pre-Calculus I *3 Credit(s).*
- SOC 101 - General Sociology *3 Credit(s).*

Program Specific Requirements (6 Credit Hours)

- MTH 208 - Introductory Statistics *3 Credit(s).*
- PSY 201 - General Psychology *3 Credit(s).*

B.S. Degree Requires Two Courses from the Following (6 Credit Hours)

- ACC 110 - Introduction to Accounting *3 Credit(s).* OR
- ACC 201 - Principles of Accounting I *3 Credit(s).*
- BUS 308 - Business Communications *3 Credit(s).*
- COM 201 - Public Speaking *3 Credit(s).* OR
- THA 222 - Voice and Diction *3 Credit(s).*
- CSC 101 - Introduction to Computers and Computer Information Systems *3 Credit(s).* OR
- CSC 125 - Concepts in Computer Information Systems *3 Credit(s).* OR
- BUS 230 - Computer Applications *3 Credit(s).*
- ENG 461 - Professional Writing *3 Credit(s).*

B.A. Additional Degree Requirements (6 Credit Hours)

Six hours of foreign language at the 200 level or higher.

Common Required Courses (33 Credit Hours)
- CJU 201 - Introduction to Criminal Justice 3 Credit(s).
- CJU 204 - Fundamentals of Corrections 3 Credit(s).
- CJU 220 - Criminal Law 3 Credit(s).
- CJU 300 - Dilemmas and Decision Making in Criminal Justice 3 Credit(s).
- CJU 314 - Courts and the Judicial Process 3 Credit(s).
- CJU 320 - Deviance and Social Control 3 Credit(s), OR
  SOC 320 - Deviance and Social Control 3 Credit(s).
- CJU 330 - Criminal Investigation 3 Credit(s).
- CJU 335 - Introduction to Forensic Investigations 3 Credit(s).
- CJU 370 - Research Methods & Statistics in Criminal Justice 3 Credit(s).
- CJU 498 - Seminar 3 Credit(s).
- PSC 202 - State and Local Government 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).

**Forensic Investigation Emphasis**

The forensic investigation emphasis helps prepare students with the knowledge, skills, and ethical principles necessary to process and report on physical evidence at a crime scene or in connection with a civil investigation. The program is designed to help students understand both the theory and practice of the forensic disciplines and of police work. Based on national guidelines, the curriculum provides a basic foundation in investigative, scientific, and laboratory-based forensics and introduces students to the various disciplines that make up the forensic collaborative work-group. Students may pursue further education or employment in the field.

**Required Emphasis Courses (24 Credit Hours)**

- CJU 330 - Criminal Investigation 3 Credit(s).
- CJU 335 - Introduction to Forensic Investigations 3 Credit(s).

**Elective Courses (Choose 6 Courses)**

Pick any six courses from the following (no more than 3 courses from CJU)

- CHM 331 - Forensic Science 4 Credit(s).
- CJU 250 - Friction Ridge Analysis 3 Credit(s).
- CJU 340 - Interviewing and Crisis Intervention 3 Credit(s).
- CJU 375 - Crime Scene Photography 3 Credit(s).
- CJU 460 - Criminal Profiling 3 Credit(s).
- CSC 290, 390 or 490 - Selected Topics in Computer Science 1-3 Credit(s). Data, Cybersecurity and You (This topic only)
- GEO 221 - Geographic Information Systems 4 Credit(s).
- PSY 335 - Psychological and Educational Assessment 3 Credit(s).
- PSY 348 - Techniques of Counseling 3 Credit(s).
- SCI 144 - Science of Crime 2 Credit(s).

**Total Credit Hours Required in Major: 57**
Total Credit Hours Required in Degree: 121

Ecotourism, B.S.

Ecotourism is responsible travel that supports biodiversity conservation, builds environmental and cultural awareness and respect, and contributes to local economic and social development. The Ecotourism major combines multidisciplinary knowledge and skills related to ecotourism, protected area management, outdoor recreation, environmental science, and business administration. The Ecotourism major seeks to empower those who plan and implement ecotourism-related activities to see themselves as responsible hosts and stewards of earth's most incredible natural resources.

Experiential Component (Complete the Following Course:)

- ECT 499 - Ecotourism Internship 4 Credit(s).

Liberal Arts Requirements (7 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).
- ESC 102 - Introduction to Environmental Science 4 Credit(s).

Program Specific Requirements (9 Credit Hours)

- ACC 110 - Introduction to Accounting 3 Credit(s).
- ESC 302 - Conservation Biology 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).

Required Courses (35 Credit Hours)

- ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
- ECT 257 - Interpreting Culture and Nature 3 Credit(s).
- ECT 265 - Foundations of Ecotourism 3 Credit(s).
- ECT 270,271 to 470,471 - Ecotourism Practicum 1 Credit(s).
- ECT 312 - Protected Area Management 3 Credit(s).
- ECT 357 - Applied Interpretation 3 Credit(s).
- ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
- ECT 499 - Ecotourism Internship 4 Credit(s).
- REC 325 - Wilderness Leadership I 3 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
• REC 410 - Recreation Administration 3 Credit(s).

• ECT 391 - Cultural and Heritage Tourism 3 Credit(s).

OR

• REC 372 - Eco-Adventure 3 Credit(s).

Recreation Activity Courses (Choose 4 Credit Hours)

• REC 103 - Backpacking and Hiking 1 Credit(s).
• REC 104 - Rock Climbing and Rappelling 1 Credit(s).
• REC 106 - Outdoor Water Sports 1 Credit(s).
• REC 107 - Introduction to Fly Fishing 1 Credit(s).
• REC 108 - Trail Design and Construction 1 Credit(s).
• REC 109 - Outdoor Recreation Sampler 1 Credit(s).
• REC 139 - Orienteering 1 Credit(s).

Ecotourism Major Electives (Choose 18 Credit Hours from the following:)

• ART 215 - Photoshop 3 Credit(s).
• BIO 110 - Introductory Biology I 4 Credit(s).
• BIO 123 - Entomology: Insects and Society 4 Credit(s).
• BIO 201 - Vertebrate Zoology 4 Credit(s).
• BIO 202 - Introduction to Plant Science 4 Credit(s).
• BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).
• BIO 311 - Field Botany 4 Credit(s).
• BUS 304 - Advertising 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• COM 235 - Fundamental of TV and Video Production 3 Credit(s).
• CJU 201 - Introduction to Criminal Justice 3 Credit(s).
• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
• ENG 211 - Literature and the Environment 3 Credit(s).
• EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
• EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).

• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

OR

• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

• EPD 410 - Advanced Environmental Planning and Development 3 Credit(s).
• ESC 190, 290, 390 or 490 - Selected Topics 1-4 Credit(s).
• ESC 203 - Fundamentals of Ecology 4 Credit(s).
• ESC 205 - Tropical and Marine Ecology 4 Credit(s).
• ESC 209 - Physical Geology and Hydrology 4 Credit(s).
• ESC 321 - Aquatic Ecology 4 Credit(s).
- ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
- ESC 413 - Forest Science and Management 4 Credit(s).
- HIS 316 - Virginia History 3 Credit(s).
- HIS 375 - Sub-Saharan Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).
- HOR 411 - Landscape Design and Management 4 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
- REC 341 - Program Planning and Leadership 3 Credit(s).
- REC 343 - Facilitation of Adventure Pursuits 3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
- REC 361 - Outdoor Education 3 Credit(s).
- REC 413 - Recreation Facility Planning, Development, and Maintenance 3 Credit(s).
- REC 440 - Recreation Seminar 3 Credit(s).
- REC 450 - Special Events Planning and Management 3 Credit(s).
- SPA 101 - Elementary Spanish I 3 Credit(s).
- SPA 102 - Elementary Spanish II 3 Credit(s).
- SPA 201 - Intercultural Competence Through Language I 3 Credit(s).
- SPA 202 - Intermediate Language and Culture II 3 Credit(s).
- SPA 301 - Advanced Grammar and Composition 3 Credit(s).
- SPA 302 - Advanced Speaking and Comprehension 3 Credit(s).
- SPA 326 - Latin American Civilization & Culture 3 Credit(s).
- SCI 123 - Global Ecology and Climate Change 2 Credit(s).
- SCI 124 - Plant Structure and Function: Edible Wild Plants 2 Credit(s).
- SCI 125 - Introduction to Natural History 2 Credit(s).
- SCI 126 - Natural Resource Conservation 2 Credit(s).
- SCI 135 - Our Awesome Planet Earth 2 Credit(s).
- SCI 141 - Humans within Ecosystems: An Integration of Science and Humanities through Environmental Education 2 Credit(s).
- SCI 143 - Our Home/Our Habitat 2 Credit(s).

**Total Credit Hours Required in Major:** 57 Credit Hours

**Total Credit Hours Required in Degree:** 121

**Elementary Education, B.S.**

The Ferrum College Teacher Education Program prepares caring and competent pre-professionals as decision-makers for the diverse contexts of 21st-century classrooms, schools and communities. Building upon a solid liberal arts foundation, the program assists candidates to develop the knowledge, skills and dispositions necessary to become effective and caring teachers in an ever-changing society.
Experiential Component (Complete the Following Course:)

- EDU 404 - Student Teaching and Synthesis Experience 12 Credit(s).

Liberal Arts Requirements (12 Credit Hours)

- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).
- MTH 105 - Fundamentals of Mathematics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Program Specific Requirements (12 Credit Hours)

- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- ENG 301 - Literature for Children and Adolescents 3 Credit(s).
- HIS 316 - Virginia History 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- BIO 105 - Concepts in Biology 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).

- MTH 107 - Introduction to Finite Mathematics 3 Credit(s).
  OR
- MTH 111 - Pre-Calculus I 3 Credit(s).

- MTH 208 - Introductory Statistics 3 Credit(s).
- SCI 250 - Physical Science 4 Credit(s).
- GEO 220 - Physical Geography 4 Credit(s).

- ART 324 - Art for Educators 3 Credit(s).
  OR
- MUS 426 - Music for Children 3 Credit(s).
  OR
- THA 336 - Creative Dramatics in School Church and Community 3 Credit(s).

Required Courses (39 Credit Hours)

- EDU 202 - Introduction to 21st Century Education 3 Credit(s).
- EDU 203 - Foundations and Trends in Education 3 Credit(s).
- SPD 220 - Survey of Exceptional and Special Education 3 Credit(s).
- EDU 310 - Developmental and Diagnostic Reading 3 Credit(s).
- EDU 311 - Elementary Language Arts Methods 3 Credit(s).
- EDU 320 - Elementary Math Methods 3 Credit(s).
- EDU 350 - Elementary Social Studies and Science Methods 3 Credit(s).
- EDU 352 - Classroom Management and Differentiated Instructional Strategies 3 Credit(s).
- EDU 353 - Elementary/Middle School Curriculum, Instruction and Assessment Strategies 3 Credit(s).
- EDU 404 - Student Teaching and Synthesis Experience 12 Credit(s).

Total Credit Hours Required in Major: 60

Total Credit Hours Required in Degree: 121

English (Minor Required), Creative and Professional Writing Emphasis, B.A.

English

The English program at Ferrum College has two primary purposes: to serve all students by helping them develop and refine their writing and research skills, then by helping them understand how to read and write about literature; and to develop majors who are thoughtful, perceptive, articulate, and open to a wide variety of literary traditions and complexities of language. In addition, English graduates should be able to write effectively in a variety of contexts and should be well prepared for a broad range of careers, but especially those working with texts and language. The program helps students to develop both critical thinking and oral communication skills by familiarizing students with literature from diverse cultures, nationalities, and historical periods and through study of the history, structure, functions, and variations of language. Finally, English graduates should be proficient in using both traditional and modern technologies in the study of literature and language. A major in English provides excellent preparation for graduate school in many fields. English majors may not minor in journalism due to the College's guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

Experiential Component

The Experiential Component (requirement of the major) can be met by successfully completing the following:

All students majoring in English will be required to complete a relevant experiential component involving supervised work in one of the following areas (or some combination): internship, a college media organization (The Iron Blade, Chrysalis, or Ferrum Radio), volunteer service, student teaching, tutoring, collaboration in a faculty research project, or development of a paper for formal presentation. Students may substitute an alternative with the approval of the appropriate School Dean. If the student's work is not undertaken for credit in an existing course, the student should enroll in a one-credit English practicum under the supervision of a faculty member in the English Department.

Liberal Arts Requirement (3 Credit Hours)

- ENG 200 - Introduction to Literary Studies 3 Credit(s).

Program Specific Requirements (12 Credit Hours)
• Foreign Language through intermediate level **Credit Hour(s): 12**

**Required Common Courses (18 Credit Hours)**

- ENG 205 - American Literature I 3 Credit(s). OR
- ENG 345 - American Literature 1815-1865 3 Credit(s).

- ENG 206 - American Literature II 3 Credit(s). OR
- ENG 346 - American Literature 1865-1940 3 Credit(s).

- ENG 398 - Junior Seminar 1 Credit(s).
- ENG 498 - Senior Seminar 2 Credit(s).

**Choose Any 3 Courses from list:**

- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 203 - British Literature I 3 Credit(s).
- ENG 204 - British Literature II 3 Credit(s).
- ENG 361 - British Literature 1660-1798 3 Credit(s).
- ENG 362 - British Literature 1798-1890 3 Credit(s).

**Creative and Professional Writing Emphasis**

**Required Emphasis Courses (6 Credit Hours)**

- ENG 218 - Introduction to Creative Writing 3 Credit(s).
- ENG 461 - Professional Writing 3 Credit(s).

**9 Credit Hours from the Following**

- COM 433 - Media Scriptwriting 3 Credit(s).
- ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).
- ENG 141, 142 to 441, 442 - Creative Arts Practicum 1 Credit(s).
- ENG 310 - Media Law and Ethics 3 Credit(s).
- ENG 311 - News Writing and Editing 3 Credit(s).
- ENG 312 - Feature Writing and Production 3 Credit(s).
- ENG 319 - Advanced Prose Writing 3 Credit(s).
- ENG 320 - Advanced Poetry Writing 3 Credit(s).
- ENG 336 - Linguistics 3 Credit(s).
- ENG 338 - Rhetoric 3 Credit(s).
- ENG 433 - Small Group Communication 3 Credit(s).

**6 credits of 300-400 level ENG electives**

- Take 6 credits of 300-400 level ENG courses.
Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

English (Minor Required), Literature Emphasis, B.A.

English

The English program at Ferrum College has two primary purposes: to serve all students by helping them develop and refine their writing and research skills, then by helping them understand how to read and write about literature; and to develop majors who are thoughtful, perceptive, articulate, and open to a wide variety of literary traditions and complexities of language. In addition, English graduates should be able to write effectively in a variety of contexts and should be well prepared for a broad range of careers, but especially those working with texts and language. The program helps students to develop both critical thinking and oral communication skills by familiarizing students with literature from diverse cultures, nationalities, and historical periods and through study of the history, structure, functions, and variations of language. Finally, English graduates should be proficient in using both traditional and modern technologies in the study of literature and language. A major in English provides excellent preparation for graduate school in many fields. English majors may not minor in journalism due to the College's guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

Experiential Component

The Experiential Component (requirement of the major) can be met by successfully completing the following:

All students majoring in English will be required to complete a relevant experiential component involving supervised work in one of the following areas (or some combination): internship, a college media organization (The Iron Blade, Chrysalis, or Ferrum Radio), volunteer service, student teaching, tutoring, collaboration in a faculty research project, or development of a paper for formal presentation. Students may substitute an alternative with the approval of the appropriate School Dean. If the student's work is not undertaken for credit in an existing course, the student should enroll in a one-credit English practicum under the supervision of a faculty member in the English Department.

Liberal Arts Requirement (3 Credit Hours)

- ENG 200 - Introduction to Literary Studies 3 Credit(s).

Program Specific Requirements (12 Credit Hours)

- Foreign Language through intermediate level Credit Hour(s): 12

Required Common Courses (18 Credit Hours)

- ENG 205 - American Literature I 3 Credit(s). OR
- ENG 345 - American Literature 1815-1865 3 Credit(s).
- ENG 206 - American Literature II 3 Credit(s). OR
Choose Any 3 Courses from list:

- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 203 - British Literature I 3 Credit(s).
- ENG 204 - British Literature II 3 Credit(s).
- ENG 361 - British Literature 1660-1798 3 Credit(s).
- ENG 362 - British Literature 1798-1890 3 Credit(s).

Literature Emphasis

Required Emphasis Courses

- ENG 401 - Literary Criticism 3 Credit(s).

18 Credit Hours Chosen from Any Other 300-400 Level English Courses

Pre-19th Century Literature (6 Credit Hours)

6 hours of pre-19th century literature. Choose from:

- ENG 361 - British Literature 1660-1798 3 Credit(s).
- ENG 365 - Shakespeare 3 Credit(s).
- ENG 421 - Medieval Literature 3 Credit(s).

19th Century and Later Literature (6 Credit Hours)

6 hours 19th century and later literature. Choose from:

- ENG 325 - The Novel 3 Credit(s).
- ENG 345 - American Literature 1815-1865 3 Credit(s).
- ENG 346 - American Literature 1865-1940 3 Credit(s).
- ENG 350
- ENG 362 - British Literature 1798-1890 3 Credit(s).
- ENG 428 - Contemporary Literature and Film 3 Credit(s).

English Courses or Foreign Language Literature (6 Credit Hours)

Choose 6 hours from any other 300-400 level English courses or foreign language literature

Total Credit Hours Required in Major (Minor Required): 39
English (Minor Required), Teacher Certification Emphasis, B.A.

English

The English program at Ferrum College has two primary purposes: to serve all students by helping them develop and refine their writing and research skills, then by helping them understand how to read and write about literature; and to develop majors who are thoughtful, perceptive, articulate, and open to a wide variety of literary traditions and complexities of language. In addition, English graduates should be able to write effectively in a variety of contexts and should be well prepared for a broad range of careers, but especially those working with texts and language. The program helps students to develop both critical thinking and oral communication skills by familiarizing students with literature from diverse cultures, nationalities, and historical periods and through study of the history, structure, functions, and variations of language. Finally, English graduates should be proficient in using both traditional and modern technologies in the study of literature and language. A major in English provides excellent preparation for graduate school in many fields. English majors may not minor in journalism due to the College's guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

Experiential Component

The Experiential Component (requirement of the major) can be met by successfully completing the following:

All students majoring in English will be required to complete a relevant experiential component involving supervised work in one of the following areas (or some combination): internship, a college media organization (The Iron Blade, Chrysalis, or Ferrum Radio), volunteer service, student teaching, tutoring, collaboration in a faculty research project, or development of a paper for formal presentation. Students may substitute an alternative with the approval of the appropriate School Dean. If the student's work is not undertaken for credit in an existing course, the student should enroll in a one-credit English practicum under the supervision of a faculty member in the English Department.

Liberal Arts Requirement (3 Credit Hours)

- ENG 200 - Introduction to Literary Studies 3 Credit(s).

Program Specific Requirements (12 Credit Hours)

- Foreign Language through intermediate level Credit Hour(s): 12

Required Common Courses (18 Credit Hours)

- ENG 205 - American Literature I 3 Credit(s). OR
- ENG 345 - American Literature 1815-1865 3 Credit(s).

- ENG 206 - American Literature II 3 Credit(s). OR
- ENG 346 - American Literature 1865-1940 3 Credit(s).

- ENG 398 - Junior Seminar 1 Credit(s).
Choose Any 3 Courses from list:

- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 203 - British Literature I 3 Credit(s).
- ENG 204 - British Literature II 3 Credit(s).
- ENG 361 - British Literature 1660-1798 3 Credit(s).
- ENG 362 - British Literature 1798-1890 3 Credit(s).

Teacher Certification Emphasis

Ferrum College offers teaching licensure in English (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education Minor)

Students lacking proficiency in public speaking may be required to take COM 201 - Public Speaking.

English majors interested in certification to teach English at the secondary level must minor in education and include the following among their major courses:

- ENG 205 - American Literature I 3 Credit(s). OR
- ENG 345 - American Literature 1815-1865 3 Credit(s).

- ENG 206 - American Literature II 3 Credit(s). OR
- ENG 346 - American Literature 1865-1940 3 Credit(s).

- ENG 336 - Linguistics 3 Credit(s).
- ENG 338 - Rhetoric 3 Credit(s).
- ENG 365 - Shakespeare 3 Credit(s).
- ENG 401 - Literary Criticism 3 Credit(s).

Highly Recommended

- ENG 203 - British Literature I 3 Credit(s).
  OR
- ENG 361 - British Literature 1660-1798 3 Credit(s).

- ENG 204 - British Literature II 3 Credit(s).
  OR
- ENG 362 - British Literature 1798-1890 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Journalism Add-on Endorsement (Teacher Education Licensure)
• ART 215 - Photoshop 3 Credit(s).
  
  OR

• ART 217 - Introduction to Photography 3 Credit(s).

• COM 101 - Introduction to Mass Communication 3 Credit(s).

• Choose 2:  
  ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).

• COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).

• ENG 311 - News Writing and Editing 3 Credit(s).

• ENG 312 - Feature Writing and Production 3 Credit(s).

  OR

• ART 201 - Basic Computer Graphics Credit Hour(s): 3

  OR

• COM 211 - Radio Broadcasting Methods 3 Credit(s).

Total Credit Hours Required in Endorsement: 15

Total Credit Hours Required in Degree: 121

Environmental Science, B.S.

The Environmental Science program provides students with state-of-the-art training and an interdisciplinary background that will enable them to deal with important environmental problems of the 21st century. In addition to the Liberal Arts Requirements curriculum required by Ferrum College and required environmental science courses, students must complete courses in biology, chemistry, earth sciences, economics, geography and statistics. Environmental problems are approached from a holistic basis and experiential learning is emphasized. An internship is required and independent research is encouraged. Ferrum College's Environmental Science Program offers students flexibility in developing their own interests. Students are encouraged to pursue a minor, but it is not required.

Experiential Component (Complete the Following Courses:)

• ESC 102 - Introduction to Environmental Science 4 Credit(s).

• NSM 499 - Internship 3 Credit(s).

Liberal Arts and Program Specific Requirements (11 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s).
  OR

• BIO 111 - Introductory Biology II 4 Credit(s).

• CHM 103 - General Chemistry 1 4 Credit(s).

• MTH 111 - Pre-Calculus 1 3 Credit(s).
Required Courses (49 Credit Hours)

- BIO 201 - Vertebrate Zoology 4 Credit(s). OR
- BIO 301 - Invertebrate Zoology 4 Credit(s).

- BIO 202 - Introduction to Plant Science 4 Credit(s). OR
- BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).

- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s). OR
- CHM 301 - Organic Chemistry I 4 Credit(s).

- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s). OR
- ESC 310 - Natural Resource Policy and Economics 3 Credit(s).

- ESC 102 - Introduction to Environmental Science 4 Credit(s).
- ESG 103 - Applied Environmental Monitoring 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
- ESC 203 - Fundamentals of Ecology 4 Credit(s).
- GEO 220 - Physical Geography 4 Credit(s).
- GEO 221 - Geographic Information Systems 4 Credit(s).

- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).

- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Required Electives (Choose 8 Credit Hours)

- CRP 315 - Soil Science and Management 4 Credit(s).
- BIO 301 - Invertebrate Zoology 4 Credit(s). (if not used to meet Required Courses above)
- BIO 306 - Nonvascular Plants and Fungi 4 Credit(s). (if not used to meet Required Courses above)
- BIO 311 - Field Botany 4 Credit(s).
- BIO 315 - Animal Behavior 3 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).
- CHM 305 - Analytical Chemistry 4 Credit(s).
- CHM 412 - Environmental Chemistry 3 Credit(s).
- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s). (if not used to meet Required Courses above)
- ESC 180, 181 to 480, 481 - Practicum 1 Credit(s).
- ESC 302 - Conservation Biology 3 Credit(s).
- ESC 310 - Natural Resource Policy and Economics 3 Credit(s). (if not used to meet Required Courses above)
- ESC 313 - Natural Resource Management 3 Credit(s).
- ESC 321 - Aquatic Ecology 4 Credit(s).
- ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
- ESC 413 - Forest Science and Management 4 Credit(s).
- ESC 421 - Pollution Science 4 Credit(s).
• ESC 424 - Environmental Toxicology 3 Credit(s).
• HOR 415 - Plant Diseases 4 Credit(s).
• SOC 303 - Cultural Diversity Applications in Schools and Society 3 Credit(s).

• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s). OR
  • EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

Electives may also include Travel Courses or Variable Credit Courses (see below):

Travel Courses

• ESC 205 - Tropical and Marine Ecology 4 Credit(s).
• ESC 206 - Community Ecology of the Southeast 4 Credit(s).
• ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).

Variable Credit Courses

• ESC 190, 290, 390 or 490 - Selected Topics 1-4 Credit(s).
• ESC 195, 196 to 495, 496 - Independent Research 1-3 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Environmental Studies, B.A.

The Environmental Studies program prepares graduates for a fulfilling career and for graduate study in the broad field of environmental studies and sustainable development. ENS uses a multidisciplinary systems approach for teaching students to think critically and creatively within a liberal arts tradition. ENS students and graduates will be expected to communicate effectively; understand the need for transparent, data-driven decision-making; and understand the importance of including a diversity of perspectives for effective environmental planning and management. In order to tailor the program of study to specific career aspirations, students choose a set of professional electives that should be coherent and clearly reflect specific career goals.

Experiential Component (Complete the Following Courses:)

• ESC 102 - Introduction to Environmental Science 4 Credit(s).
• NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

• ENG 211 - Literature and the Environment 3 Credit(s).
• ESC 102 - Introduction to Environmental Science 4 Credit(s).
• SOC 101 - General Sociology 3 Credit(s).

Program Specific Requirements (8 Credit Hours)
• GEO 220 - Physical Geography 4 Credit(s).
• GEO 221 - Geographic Information Systems 4 Credit(s).

Required Courses (39-40 Credit Hours)

• EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
• EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).
• EPD 410 - Advanced Environmental Planning and Development 3 Credit(s).
• ESC 103 - Applied Environmental Monitoring 4 Credit(s).

• ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
• MTH 208 - Introductory Statistics 3 Credit(s).

• ESC 203 - Fundamentals of Ecology 4 Credit(s).
• ESC 310 - Natural Resource Policy and Economics 3 Credit(s).
• ESC 313 - Natural Resource Management 3 Credit(s).

• NSM 398 - Junior Seminar 3 Credit(s). AND
• NSM 498 - Senior Seminar 3 Credit(s).

• NSM 499 - Internship 3 Credit(s).
• PSC 402 - Policy Analysis 3 Credit(s).

• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
  OR
• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

Elective Courses (12 Credit Hours)

• CRP 315 - Soil Science and Management 4 Credit(s).
• ECO 330 - International Trade 3 Credit(s).
• ECO 430 - Development Economics 3 Credit(s).
• ESC 180, 181 to 480, 481 - Practicum 1 Credit(s).

• ESC 205 - Tropical and Marine Ecology 4 Credit(s).
  OR
• ESC 206 - Community Ecology of the Southeast 4 Credit(s).
  OR
• ESC 207 - South African Ecology and Culture 4 Credit(s).
  OR
• ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).

• ESC 302 - Conservation Biology 3 Credit(s).
• ESC 321 - Aquatic Ecology 4 Credit(s).
• ESC 190, 290, 390 or 490 - Selected Topics 1-4 Credit(s).
• ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
• ESC 413 - Forest Science and Management 4 Credit(s).
Health and Human Performance, Exercise and Sport Studies Emphasis, B.S.

Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

- HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)

- HHP 100 - Responding to Emergencies 1 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
- HHP 338 - Motor Learning 3 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 341 - Applied Biomechanics 1 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 357 - Applied Exercise Physiology 1 Credit(s).
• BIO 320 - Human Nutrition 3 Credit(s). OR
• HHP 348 - Sports Nutrition 3 Credit(s).

• PSY 345 - Sport Psychology 3 Credit(s). OR
• HHP 345 - Sport Psychology 3 Credit(s).

Choose 1 Course from list:

• HHP 130 - Individual Sports 1 Credit(s).
• HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
• HHP 144 - Team Sports 1 Credit(s).
• HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
• HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
• HHP 153 - Cardiorespiratory Activities 1 Credit(s).

Exercise and Sport Studies Emphasis

This option offers rigorous academic training to meet an increasing demand for well-educated professionals capable of delivering a broad range of exercise-based preventive, technical education and rehabilitative services. The specialists in this area develop individual exercise programs for a diverse population ranging from healthy individuals to individuals with known cardiovascular disease.

Program Specific Requirements (4 Credit Hours)

• BIO 255 - Human Anatomy and Physiology II 4 Credit(s).

Required Emphasis Courses (22 Credit Hours)

• BUS 230 - Computer Applications 3 Credit(s).
• HHP 206 - Introduction to Athletic Injuries 3 Credit(s).
• HHP 332 - Strength and Conditioning 3 Credit(s).
• HHP 361 - Exercise Assessment and Prescription 3 Credit(s).
• HHP 400 - Advanced Exercise Science 3 Credit(s).
• HHP 450 - (Capstone) Design and Application of Health and Human Performance Programs 3 Credit(s).
• HHP 499 - Internship 4 Credit(s).

Total Credit Hours Required in Major: 47

Total Credit Hours Required in Degree: 121

Health and Human Performance, Exercise Science Emphasis, B.S.
Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

- HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)

- HHP 100 - Responding to Emergencies 1 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
- HHP 338 - Motor Learning 3 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 341 - Applied Biomechanics 1 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 357 - Applied Exercise Physiology 1 Credit(s).

- BIO 320 - Human Nutrition 3 Credit(s). OR
- HHP 348 - Sports Nutrition 3 Credit(s).

- PSY 345 - Sport Psychology 3 Credit(s). OR
- HHP 345 - Sport Psychology 3 Credit(s).

Choose 1 Course from list:

- HHP 130 - Individual Sports 1 Credit(s).
- HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
- HHP 144 - Team Sports 1 Credit(s).
- HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
- HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
- HHP 153 - Cardiorespiratory Activities 1 Credit(s).
Exercise Science Emphasis

This emphasis is designed to serve as a pre-professional course of study for athletic training, sports medicine, physical therapy, cardiac rehabilitation, or physiology of exercise. This option would be for individuals interested in specializing in preventing, diagnosing and treating injuries related to participating in sports and/or exercise, specifically the rotation or deformation of joints or muscles caused by engaging in such physical activities. An exercise physiology and science professional performs a variety of tasks and procedures to assist athletes of all ages, amateur or professional, in any sport.

Program Specific Requirements (7 Credit Hours)

- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).

Required Emphasis Courses (32 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
  OR
  CHM 301 - Organic Chemistry I 4 Credit(s).
- HHP 206 - Introduction to Athletic Injuries 3 Credit(s).
  OR
  HHP 332 - Strength and Conditioning 3 Credit(s).
- HHP 361 - Exercise Assessment and Prescription 3 Credit(s).
- HHP 400 - Advanced Exercise Science 3 Credit(s).
- HHP 450 - (Capstone) Design and Application of Health and Human Performance Programs 3 Credit(s).
- HHP 499 - Internship 4 Credit(s).
- PHY 201 - General Physics I 4 Credit(s).
- PHY 202 - General Physics II 4 Credit(s).

Suggested Electives Include

- BIO 303 - Microbiology 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Health and Human Performance, Health Promotion Emphasis, B.S.
Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

- HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)

- HHP 100 - Responding to Emergencies 1 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
- HHP 338 - Motor Learning 3 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 341 - Applied Biomechanics 1 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 357 - Applied Exercise Physiology 1 Credit(s).

- BIO 320 - Human Nutrition 3 Credit(s). OR
- HHP 348 - Sports Nutrition 3 Credit(s).

- PSY 345 - Sport Psychology 3 Credit(s). OR
- HHP 345 - Sport Psychology 3 Credit(s).

Choose 1 Course from list:

- HHP 130 - Individual Sports 1 Credit(s).
- HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
- HHP 144 - Team Sports 1 Credit(s).
- HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
- HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
- HHP 153 - Cardiorespiratory Activities 1 Credit(s).

Health Promotion Emphasis
This option provides an area of interest for those concerned in developing healthy public policy that addresses the process of enabling people to increase control over their health and its determinants, and thereby improve their health. Health promotion professionals duties may include; planning and coordinating health promotion programs for community groups, informing and involving other health professionals in community health issues, designing and developing public information campaigns using radio, television, newspapers, pamphlets, posters and websites and constructing school curriculum material.

Program Specific Requirements (4 Credit Hours)

- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).

Required Emphasis Courses (23 Credit Hours)

- HHP 401 - Methods for Teaching Health Education 3 Credit(s).
- HHP 450 - (Capstone) Design and Application of Health and Human Performance Programs 3 Credit(s).
- HHP 499 - Internship 4 Credit(s).
- PSY 328 - Health Psychology 3 Credit(s).
- REC 341 - Program Planning and Leadership 3 Credit(s).
- SWK 350 - Substance Abuse: Interventive Techniques 3 Credit(s).

Any 2 Topics in Science Classes

- SCI 101 - Introductory Interdisciplinary Science I 2 Credit(s).
- SCI 102 - Introductory Interdisciplinary Science II 2 Credit(s).
- SCI 121 - Population, Food, and Environment 2 Credit(s).
- SCI 122 - The Disintegrating Web: The Causes and Consequences of Extinction 2 Credit(s).
- SCI 123 - Global Ecology and Climate Change 2 Credit(s).
- SCI 124 - Plant Structure and Function: Edible Wild Plants 2 Credit(s).
- SCI 125 - Introduction to Natural History 2 Credit(s).
- SCI 126 - Natural Resource Conservation 2 Credit(s).
- SCI 127 - Human Sexual Reproduction, Pregnancy, Development, and Birth 2 Credit(s).
- SCI 128 - The Healthy Human Body 2 Credit(s).
- SCI 129 - The Diseased Human Body 2 Credit(s).
- SCI 130 - Plant Nutrition and Disease: Healthy Houseplants 2 Credit(s).
- SCI 132 - Fossils and Geologic Time 2 Credit(s).
- SCI 134 - Quarks and Atoms, Dark Matter and Black Holes 2 Credit(s).
- SCI 135 - Our Awesome Planet Earth 2 Credit(s).
- SCI 136 - Chemistry in Our World 2 Credit(s).
- SCI 137 - The Physics of Sports 2 Credit(s).
- SCI 139 - The Amazing Universe 2 Credit(s).
- SCI 140 - DNA Fingerprinting and Genetic Engineering 2 Credit(s).
- SCI 141 - Humans within Ecosystems: An Integration of Science and Humanities through Environmental Education 2 Credit(s).
- SCI 143 - Our Home/Our Habitat 2 Credit(s).
- SCI 144 - Science of Crime 2 Credit(s).
- SCI 145 - Bad Science in Movies 2 Credit(s).
Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Health and Human Performance, Physical and Health Education; Teaching Pre K-12 Emphasis (Teacher Education Minor required), B.S.

Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

- HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)

- HHP 100 - Responding to Emergencies 1 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
- HHP 338 - Motor Learning 3 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 341 - Applied Biomechanics 1 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 357 - Applied Exercise Physiology 1 Credit(s).

- BIO 320 - Human Nutrition 3 Credit(s). OR
- HHP 348 - Sports Nutrition 3 Credit(s).

- PSY 345 - Sport Psychology 3 Credit(s). OR
- HHP 345 - Sport Psychology 3 Credit(s).
Choose 1 Course from list:

- HHP 130 - Individual Sports 1 Credit(s).
- HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
- HHP 144 - Team Sports 1 Credit(s).
- HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
- HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
- HHP 153 - Cardiorespiratory Activities 1 Credit(s).

Physical and Health Education; Teaching Pre K-12 Emphasis (Teacher Education Minor Required)

Students electing this program emphasis must also minor in the All-Level Teacher Education Minor and fulfill all the requirements and standards in both programs to become certified to teach Physical Education and Health at the elementary and secondary levels (Pre K-12). This licensure requires passing all state-mandated tests prior to enrollment into the Teacher Education program. This emphasis provides the scientific background and academic experience which will prepare students to be effective educators. (See Teacher Education Minor)

The Experiential Component (requirement of the major) for this emphasis can be met by successfully completing EDU 404 Student Teaching and Synthesis Experience.

Program Specific Requirements (8 Credit Hours)

- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- PSY 291 - Practicum and Child Development Lab 1 Credit(s).

Required Emphasis Courses (14 Credit Hours)

- DAN 105 - Fundamentals of Dance Styles 1 Credit(s). OR
- DAN 106 - Fundamentals of Dance Styles 1 Credit(s). OR
- DAN 110 - Beginning Dance for Performance I 1 Credit(s). OR
- DAN 111 - Beginning Dance for Performance II 1 Credit(s).
- HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
- HHP 320 - Health and Physical Education for Children (Pre-K-6) 3 Credit(s).
- HHP 321 - The Physical Education Experience for Adolescents 3 Credit(s).
- HHP 361 - Exercise Assessment and Prescription 3 Credit(s).
- HHP 401 - Methods for Teaching Health Education 3 Credit(s).

Total Credit Hours Required in Major: 39

Total Credit Hours Required in Degree: 121

History (Minor Required), B.A. or B.S.
History is the study of the interaction of cultural, geographical, political, and economic forces and how they have shaped the world of the past and present. Thus the major in history provides a solid preparation for career and personal endeavor in the contemporary world. The major offers excellent background for students preparing for law school, graduate study, teaching, and public service. Students interested in graduate school are strongly encouraged to pursue the B.A. degree option.

Ferrum College offers teaching licensure in Social Studies (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Permalink-Social Studies)

Experiential Component (Complete the Following Courses):

- HIS 498 - Senior Seminar 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

Required for both the B.A. or B.S. Degree:

- COM 201 - Public Speaking 3 Credit(s).

History B.A. Degree Program Specific (6 Credit Hours)

- Choose a Foreign Language (200-level or above) Credit Hour(s): 6

History B.S. Degree Program Specific (6 Credit Hours)

Choose 6 credit hours from the following list:

- PSC 101 - American National Government and Politics 3 Credit(s).
- PSC 202 - State and Local Government 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).
- PSC 205 - Comparative Government 3 Credit(s).

Required Courses (18 Credit Hours)

- HIS 101 - Western Civilization I 3 Credit(s).
  OR
- HIS 111 - World History to 1500 3 Credit(s).
- HIS 102 - Western Civilization II 3 Credit(s).
  OR
- HIS 112 - World History after 1500 3 Credit(s).
- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).
- HIS 398 - Historiography 3 Credit(s).
- HIS 498 - Senior Seminar 3 Credit(s). (Experiential Component)
U.S. History Electives (6 Credit Hours)

Choose 6 credit hours from the following:

- HIS 302 - History of Sports in the US 3 Credit(s).
- HIS 303 - The American Revolution 3 Credit(s).
- HIS 305 - The American Civil War 3 Credit(s).
- HIS 306 - Women in Twentieth-Century America 3 Credit(s).
- HIS 307 - American Crime: Criminalization and Punishment in the 20th Century 3 Credit(s).
- HIS 308 - African American History 3 Credit(s).
- HIS 309 - The United States 1900-1945 3 Credit(s).
- HIS 310 - The United States since 1945 3 Credit(s).
- HIS 316 - Virginia History 3 Credit(s).
- HIS 318 - The American West in History and Memory 3 Credit(s).

European History Electives (6 Credit Hours)

Choose 6 credit hours from the following:

- HIS 335 - Classical Antiquity Greco-Roman History 3 Credit(s).
- HIS 341 - England from Island to Empire: Early Modern British History, 1485-1775 3 Credit(s).
- HIS 344 - The Scientific Revolution 3 Credit(s).
- HON 210 - Reason and the Individual 3 Credit(s).

Non-Western History (6 Credit Hours)

Choose 6 hours from the following:

- HIS 357 - Russian History 3 Credit(s).
- HIS 360 - The History of Travel and Tourism 3 Credit(s).
- HIS 371 - China 3 Credit(s).
- HIS 373 - India 3 Credit(s).
- HIS 374 - Southeast Asia 3 Credit(s).
- HIS 376 - The History of Islam 3 Credit(s).
- HIS 378 - North Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).
- HIS 383 - Caribbean Environmental History 3 Credit(s).

Major Electives (3 Credit Hours @ 300-400 level)

- Choose any 300/400-level history course not used to satisfy the above requirements. HIS 220 may also be used as an exception with the reminder that the student must achieve a total of 30 hours at the 300/400 level.

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121
International Studies, Global Affairs Emphasis, B.A.

International Studies

The growth of world interdependence has made it imperative that Ferrum College offer its students a program of study which can prepare them to function effectively in a society more than ever affected by international affairs. Virtually every aspect of life in the modern United States – business and labor, religious life, government: both federal and state, and even science and technology – is influenced by what happens in the wider world. The interdisciplinary major in International Studies is designed to provide students with the opportunity to be educated for citizenship in this kind of world. Students must choose one of the two emphasis areas.

The Global Affairs emphasis broadly covers history, language, culture, economy, and politics of foreign nations and the international community. Graduates will be prepared to take advantage of expanding career opportunities in transnational businesses, government, and the many humanitarian, research, and lobbying groups operating in the international context. The program also provides an academic foundation for post-graduate study.

The International Security Studies emphasis area of the International Studies program will focus on specific courses and topics pertaining to international security, including cybersecurity, war, terrorism, and other related security issues. Students interested in careers in intelligence, security, government related careers, the military, cybersecurity, and legal profession may benefit from taking this emphasis area of the major.

Experiential Component (Complete the Following Courses:)

- PSC 203 - International Politics 3 Credit(s).

International Travel (Choose one course)

One course that involves international travel including but not limited to:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESC 207 - South African Ecology and Culture 4 Credit(s). (South Africa)
- ESC 208 - Ireland’s Natural History: Interaction of Nature and Culture 4 Credit(s). (Ireland)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Liberal Arts Requirements (12 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- LAN 201 - Foreign Language 3 Credit(s).
- LAN 202 - Foreign Language 3 Credit(s).
- PSC 205 - Comparative Government 3 Credit(s).

Common Required Courses (18 Credit Hours)
- IST 350 - International Relations Theory 3 Credit(s).
- IST 496 - Individual or Collaborative Study 3 Credit(s).
- IST 498 - International Studies Senior Seminar 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).

Research Course (Choose 1 Research Course from list)

- HIS 398 - Historiography 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).
- ENG 401 - Literary Criticism 3 Credit(s).

International Travel (Choose one course)

One course that involves international travel, such as:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Language Requirement (6 Credit Hours)

- LAN 301, 302 - Advanced Foreign Language Credit Hour(s): 6

Global Affairs Emphasis

Area Studies (9 Credits)

Choose 9 hours from the following:

- HIS 371 - China 3 Credit(s).
- HIS 373 - India 3 Credit(s).
- HIS 374 - Southeast Asia 3 Credit(s).
- HIS 375 - Sub-Saharan Africa 3 Credit(s).
- HIS 378 - North Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).
- HIS 355 - Russia Since 1917 3 Credit(s).
- HIS 357 - Russian History 3 Credit(s).

International Relations (at Least 9 Credit Hours)

- PSC 302 - Political Geography 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).
- PSC 420 - War and Peacekeeping: U.S. National Security Policy 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s).

Economics (at Least 3 Credit Hours)

- BUS 420 - International Business 3 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- ECO 430 - Development Economics 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).

World Cultures and Practices (at Least 6 Credit Hours)

- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 210 - World Folktales and Literature 3 Credit(s).
- HUM 200 - The Holocaust: Past, Present, and Future 3 Credit(s).
  OR
- HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
- HUM 333 - Intercultural Conflict Mediation 3 Credit(s).
- REL 151 - World Religions 3 Credit(s).
- SPA 320 - Introduction to Literature in Spanish 3 Credit(s).
- SPA 325 - Spanish Civilization & Culture 3 Credit(s).
- SPA 326 - Latin American Civilization & Culture 3 Credit(s).
- SPA 403 - Special Topics in Hispanic Culture 3 Credit(s).
- SPA 404 - Selected Topics in Hispanic Literature 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).

Major Electives (6 Credit Hours)

Additional courses from the Area Studies or International Relations categories or from the following:

- HIS 496 - Individual/Alternative Study 1-3 Credit(s).
- HIS 497 - Selected Topics in History 3 Credit(s).
- IST 325 - Special Topics in International Studies 3 Credit(s).
- PSC 491 - Topics in Political Science 3 Credit(s).
- PSC 499 - Internship 3, 6 or 9 Credit(s). (as approved by the program coordinator)

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

International Studies

The growth of world interdependence has made it imperative that Ferrum College offer its students a program of study which can prepare them to function effectively in a society more than ever affected by international affairs. Virtually every aspect of life in the modern United States – business and labor, religious life, government: both federal and state, and even science and technology – is influenced by what happens in the wider world. The interdisciplinary major in International Studies is designed to provide students with the opportunity to be educated for citizenship in this kind of world. Students must choose one of the two emphasis areas.

The Global Affairs emphasis broadly covers history, language, culture, economy, and politics of foreign nations and the international community. Graduates will be prepared to take advantage of expanding career opportunities in transnational businesses, government, and the many humanitarian, research, and lobbying groups operating in the international context. The program also provides an academic foundation for post-graduate study.

The International Security Studies emphasis area of the International Studies program will focus on specific courses and topics pertaining to international security, including cybersecurity, war, terrorism, and other related security issues. Students interested in careers in intelligence, security, government related careers, the military, cybersecurity, and legal profession may benefit from taking this emphasis area of the major.

Experiential Component (Complete the Following Courses:)

- PSC 203 - International Politics 3 Credit(s).

International Travel (Choose one course)

One course that involves international travel including but not limited to:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESC 207 - South African Ecology and Culture 4 Credit(s). (South Africa)
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s). (Ireland)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Liberal Arts Requirements (12 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- LAN 201 - Foreign Language 3 Credit(s).
- LAN 202 - Foreign Language 3 Credit(s).
- PSC 205 - Comparative Government 3 Credit(s).
Common Required Courses (18 Credit Hours)

- IST 350 - International Relations Theory 3 Credit(s).
- IST 496 - Individual or Collaborative Study 3 Credit(s).
- IST 498 - International Studies Senior Seminar 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).

Research Course (Choose 1 Research Course from list)

- HIS 398 - Historiography 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).
- ENG 401 - Literary Criticism 3 Credit(s).

International Travel (Choose one course)

One course that involves international travel, such as:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESC 208 - Ireland’s Natural History: Interaction of Nature and Culture 4 Credit(s).
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Language Requirement (6 Credit Hours)

- LAN 301, 302 - Advanced Foreign Language Credit Hour(s): 6

International Security Studies Emphasis

Additional Emphasis Required Courses (6 Credit Hours)

- PSC 420 - War and Peacekeeping: U.S. National Security Policy 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).

Area Studies (Choose 6 Credit Hours)

- HIS 371 - China 3 Credit(s).
- HIS 373 - India 3 Credit(s).
- HIS 374 - Southeast Asia 3 Credit(s).
- HIS 375 - Sub-Saharan Africa 3 Credit(s).
- HIS 378 - North Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).
International Relations (Choose 6 Credit Hours)

- IST 325 - Special Topics in International Studies 3 Credit(s).
- PSC 302 - Political Geography 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s).

Economics (Choose 3 Credit Hours)

- ECO 430 - Development Economics 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).

Information Systems and Security (Choose 6 Credit Hours)

- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 290, 390 or 490 - Selected Topics in Computer Science 1-3 Credit(s). Data, Cybersecurity, and You (This topic only)

Major Electives (6 Credit Hours)

Additional courses from the Area Studies or International Relations categories or from the following:

- BUS 420 - International Business 3 Credit(s).
- CSC 345 - Advanced Networking Configuration and Management 3 Credit(s).
- CSC 435 - Fundamentals of Cybersecurity 3 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- GEO 221 - Geographic Information Systems 4 Credit(s).
- HUM 200 - The Holocaust: Past, Present, and Future 3 Credit(s).
  OR
- HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
- HUM 333 - Intercultural Conflict Mediation 3 Credit(s).
- HIS 496 - Individual/Alternative Study 1-3 Credit(s).
- HIS 497 - Selected Topics in History 3 Credit(s).
- PSC 402 - Policy Analysis 3 Credit(s).
- PSC 491 - Topics in Political Science 3 Credit(s).
- PSC 499 - Internship 3, 6 or 9 Credit(s). (as approved by the program coordinator)
- REL 151 - World Religions 3 Credit(s).
- REL 251 - Interfaith Dialogue and Understanding 3 Credit(s).
- SPA 325 - Spanish Civilization & Culture 3 Credit(s).
- SPA 326 - Latin American Civilization & Culture 3 Credit(s).
- SPA 403 - Special Topics in Hispanic Culture 3 Credit(s).

Total Credit Hours Required in Major: 57
Total Credit Hours Required in Degree: 121

Liberal Studies, B.A. or B.S.

Liberal Studies provides the possibility for a program of study to meet educational goals not exactly satisfied by other academic programs. There are possibilities of three or more minors which may be developed into a coherent program of study. Students prepare a statement in which they list their educational objectives and explain how a particular combination of minors will help them to achieve them. A degree plan is developed and the complete proposal is signed by the faculty advisor who will oversee the program. The form needed to begin this process may be obtained from the Provost Office. It is returned, by the student, to the Provost for final approval before being delivered to the Office of the Registrar. A 2.0 GPA is required in each minor for graduation.

The Experiential Component requirements are listed in the Catalog for each major. For this major, the Experiential Component must be chosen from those listed in the majors that parallel one of the student's three Liberal Studies Emphasis areas.

A minimum of 54 hours is required to complete the Liberal Studies major, with a total of thirty hours of 300-400 level coursework.

Mathematics (Minor Required), B.S.

Mathematics studies the concepts related to quantity, space, change, pattern and structure. Ferrum College's Mathematics curriculum allows the student to learn traditional areas of mathematics, such as Calculus, Geometry and Algebra, while developing the ability for deductive reasoning and problem-solving. The Ferrum College B.S. in Mathematics prepares the student who plans to pursue a career in business, industry, government, or secondary education, as well as the student who plans to continue learning Mathematics in graduate school.

The Experiential Component (requirement of the major) in the program is met by the successful completion of laboratory courses.

Liberal Arts Requirements

- MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements

Choose one of the following sequences:

- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
  OR
- CSC 310 - Java Programming 3 Credit(s).
- CSC 312 - Computer Organization 3 Credit(s).
- CSC 320 - Programming Using C++ 3 Credit(s).
- CSC 321 - Data Structures 3 Credit(s).
  OR
- PHY 203 - Fundamentals of Physics 4 Credit(s).
- PHY 204 - Fundamentals of Physics 4 Credit(s).
Required Courses (38 Credit Hours)

- MTH 208 - Introductory Statistics 3 Credit(s).
- MTH 221 - Calculus II 3 Credit(s).
- MTH 234 - Mathematical Reasoning 3 Credit(s).
- MTH 243 - Discrete Mathematics 3 Credit(s).
- MTH 246 - Linear Algebra I 3 Credit(s).
- MTH 322 - Calculus III 3 Credit(s).
- MTH 324 - Elements of Geometry and Number Theory 3 Credit(s).
- MTH 332 - Differential Equations 3 Credit(s).
- MTH 342 - Abstract Algebra 3 Credit(s).
- MTH 357 - Linear Algebra II 3 Credit(s).
- MTH 390 or 490 - Selected Topics: Credit Hours: 3
- MTH 497 - Foundations of Mathematics 2 Credit(s).
- MTH 498 - Senior Seminar in Mathematics 3 Credit(s). *

Total Credit Hours Required in Major (Minor Required): 38

Ferrum College offers teaching licensure in Mathematics (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor.

Total Credit Hours Required for Endorsement: 24-25

Total Credit Hours Required in Degree: 121

To receive a minor in Mathematics students must have 18 credit hours of Mathematics at the 200 level or above.

Media and Communication (Minor Required), B.A. or B.S.

The Media and Communication program is for students who are interested in pursuing careers in broadcasting, multimedia journalism, public relations, corporate communications, audio recording and reproduction, film making, and online media creation. Students are introduced to the foundations of communication, communication research, media production values, and an array of media production skills that will enable them to create high quality media-borne messages.

Students may elect an internship in their junior year. Students qualify for an internship by receiving the recommendations of two faculty members, by earning a 2.5 overall grade point average, and by successfully completing an interview with the Media and Communication program coordinator, which may include other faculty members. Students are expected to earn a "C" or higher in each of their courses within the major.

Experiential Component (Complete 3 Credit Hours from Following Courses:)

*
• COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).
• COM 236, 237 to 436, 437 - Video Production Practicum 1 Credit(s).
• COM 499 - Internship 3 Credit(s).
• ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).
• ENG 141, 142 to 441, 442 - Creative Arts Practicum 1 Credit(s).

Liberal Arts Requirements (3-6 Credits)

• PSY 201 - General Psychology 3 Credit(s).
  B.S. Degree additionally requires:
• MTH 107 - Introduction to Finite Mathematics 3 Credit(s).

Program Specific Requirements

B. A. Degree (6 Credit Hours)

• Six hours of foreign language (200 level or above) Credit Hour(s): 6

B. S. Degree (3 Credit Hours)

• ANA 271 - Business Statistics with Statistical Software 3 Credit(s).

Required Courses (24 Credit Hours)

• COM 101 - Introduction to Mass Communication 3 Credit(s).
• COM 223 - Basic Audio Recording 3 Credit(s).
• COM 235 - Fundamentals of TV and Video Production 3 Credit(s).
• COM 304 - Communication Research 3 Credit(s).
• COM 369 - Mass Media and Behavior 3 Credit(s).
• COM 433 - Media Scriptwriting 3 Credit(s).
• COM 483 - Senior Synthesis Seminar 3 Credit(s).
• ENG 310 - Media Law and Ethics 3 Credit(s).

Elective Courses (Choose 12 Credit Hours from the Following List)

Choices must be approved by the student's advisor. At least six hours must be from the 300-400 level.

• ART 215 - Photoshop 3 Credit(s).
• ART 217 - Introduction to Photography 3 Credit(s).
• ART 222 - Basic Computer Graphics 3 Credit(s).
• ART 232 - Web Design X 3 Credit(s).
• ART 317 - Intermediate Photography 3 Credit(s).
• ART 322 - Graphic Print Media 3 Credit(s).
• ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).
• ART 417 - Advanced Photography 3 Credit(s).
• BUS 230 - Computer Applications 3 Credit(s).
Total Credit Hours Required in Major (Minor Required): 36

Total Credit Hours Required in Degree: 121

Music (Minor Required), Business Emphasis, B.A.

The study of music at a liberal arts institution fosters problem solvers, independent thinkers, team players and future leaders. A student majoring in music at Ferrum College will have the opportunity to perform with instrument or voice, demonstrate an understanding of music theory and practice, study the development of music throughout history, and develop an understanding of the business of music. The goals of this degree program are to develop musicianship and artistic sensibilities alongside business and technical skills.

Experiential Requirement (3 Credit Hours)

Complete 3 credits from Musical Ensemble courses.
Liberal Arts Requirement (6 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MUS 358 - Music: Baroque and Classic Periods 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

Complete ACC 201 and 6 credit hours of the same language.

- ACC 201 - Principles of Accounting I 3 Credit(s).
- SPA 101 - Elementary Spanish I 3 Credit(s).
- SPA 102 - Elementary Spanish II 3 Credit(s).
- LAN 101 - Foreign Language 3 Credit(s).
- LAN 102 - Foreign Language 3 Credit(s).

Required Courses (35 Credit Hours)

- MUS 105 - Music Theory I 2 Credit(s).
- MUS 106 - Aural Skills Lab I 1 Credit(s).
- MUS 107 - Music Theory II 2 Credit(s).
- MUS 108 - Aural Skills Lab II 1 Credit(s).

  Complete both Piano courses (2 Credit Hours)
- MUS 143, 144 - Piano Class 1 Credit(s).

  Private Music Lessons (Choose 6 Credit Hours):
- MUS 151, 152 to 451, 452 - Private Music Lessons 1 Credit(s).

  Music Ensemble (Choose 8 Credit Hours):  
- MUS 111, 112 to 411, 412 - Concert Choir 1 Credit(s).
- MUS 117, 118 to 417, 418 - Collegiates 1 Credit(s).
- MUS 119, 120 to 419, 420 - Band 1 Credit(s).

- MBU 201 - Music Business I 3 Credit(s).
- MBU 301 - Music Business II 3 Credit(s).
- MUS 359 - Music: Romantic and Modern Periods 3 Credit(s).
- MBU 401 - Advanced Topics in Music Business 1 Credit(s).
- MBU 499 - Music Business Internship 3 Credit(s).

Program Electives (Choose 3 Credit Hours)

- ART 222 - Basic Computer Graphics 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 320 - Entrepreneurship 3 Credit(s).
• COM 200 - Strategies for Public Relations and Social Media 3 Credit(s).
• COM 215 - Multimedia Storytelling 3 Credit(s).
• COM 223 - Basic Audio Recording 3 Credit(s).
• ENG 310 - Media Law and Ethics 3 Credit(s).
• REC 450 - Special Events Planning and Management 3 Credit(s).

Total Credit Hours Required in Major: 38

Total Credit Hours Required in Degree: 121

Music (Minor Required), Performance Emphasis, BA

The study of music at a liberal arts institution fosters problem solvers, independent thinkers, team players and future leaders. A student majoring in music at Ferrum College will have the opportunity to perform with instrument or voice, demonstrate an understanding of music theory and practice, study the development of music throughout history, and develop an understanding of the business of music. The goals of this degree program are to develop musicianship and artistic sensibilities alongside business and technical skills.

Experiential Requirement (3 Credit Hours)

Complete 3 Credit Hours from Musical Ensemble courses.

Liberal Arts Requirements (3 Credit Hours)

• MUS 358 - Music: Baroque and Classic Periods 3 Credit(s).

Program Specific Requirements (6 Credit Hours)

Choose 6 hours of the same language.

• SPA 101 - Elementary Spanish I 3 Credit(s).
• SPA 102 - Elementary Spanish II 3 Credit(s).
OR
• LAN 101 - Foreign Language 3 Credit(s).
• LAN 102 - Foreign Language 3 Credit(s).

Required Courses (31 Credit Hours)

• MUS 105 - Music Theory I 2 Credit(s).
• MUS 106 - Aural Skills Lab I 1 Credit(s).
• MUS 107 - Music Theory II 2 Credit(s).
• MUS 108 - Aural Skills Lab II 1 Credit(s).
Complete both Piano courses (2 Credit Hours)
- MUS 143, 144 - Piano Class 1 Credit(s).
- MUS 310 - Introduction to Conducting 1 Credit(s).
- MUS 359 - Music: Romantic and Modern Periods 3 Credit(s).
- MUS 428 - Foundations in Music Education 2 Credit(s).
- MUS 465 - Senior Recital 1 Credit(s).

Musical Ensemble (8 Credit Hours)
- MUS 111, 112 to 411, 412 - Concert Choir 1 Credit(s).
- MUS 117, 118 to 417, 418 - Collegiates 1 Credit(s).
- MUS 119, 120 to 419, 420 - Band 1 Credit(s).

Applied Music Lessons (6 Credit Hours)
- MUS 161, 162 to 461, 462 - Applied Music Lessons 2 Credit(s).

Music Electives (6 Credit Hours)
Choose 6 hours of MUS electives.

Total Credit Hours Required in Major: 37

Total Credit Hours Required in Degree: 121

Philosophy (Minor Required), B.A.

The philosophy program at Ferrum College offers a course of study leading to the Bachelor of Arts degree. Philosophy is a discipline that explores the fundamental concerns of human life, such as the structure of human existence, the existence of God, the ultimate nature of reality, the possibility of human knowledge, the role of reason, the essence of truth, the foundations of moral and aesthetic judgments, the meaning of life, and the challenge of death. A large number of careers can be shaped or enhanced by the study of philosophy due to the analytical abilities, interpretive skills, and probing attitude which it helps to develop. While many graduates choose to attend graduate school in philosophy, as well as other disciplines, the philosophy program also offers a solid foundation for those with an interest in writing, editing, and publishing, and excellent pre-professional preparation for those interested in seminary, law school, or medical school. Philosophy graduates have also chosen to enter the workplace as counselors, ethical consultants, and knowledge managers in both government and private industry, while many entertainers have found degrees in philosophy to be helpful in the development of their careers.

Experiential Component (Complete the Following Courses:)
- PHI 498 - Senior Seminar in Philosophy 2 Credit(s).
- PHI 499 - Senior Seminar in Philosophy 2 Credit(s).

Program Specific Requirements
Philosophy majors must take six hours of one foreign language at the intermediate level OR six hours each of two foreign languages at the introductory level (total 12 hours)

**Required Courses (37 Credit Hours)**

- PHI 101 - Logic *3 Credit(s).*
- PHI 211 - Ethics *3 Credit(s).*
- PHI 221 - Survey of Ancient and Medieval Philosophy *3 Credit(s).*
- PHI 222 - Survey of Modern Philosophy *3 Credit(s).*
- PHI 498 - Senior Seminar in Philosophy *2 Credit(s).*
- PHI 499 - Senior Seminar in Philosophy *2 Credit(s).*
- An additional 21 hours of philosophy, at least 15 at the 300-400 level *Credit Hour(s): 21*

**Substitution Courses**

With permission of the philosophy faculty, some of the courses listed below may serve as substitutions.

- PSC 303 - Political Theory from Socrates to Locke *3 Credit(s).*
- PSC 304 - Modern Ideologies *3 Credit(s).*
- REL 222 - History of Christian Thought *3 Credit(s).*
- REL 331 - Christian Theology *3 Credit(s).*
- Other Religion courses

**Total Credit Hours Required in Major (Minor Required): 37**

**Total Credit Hours Required in Degree: 121**

**Political Science, Democracy, Justice and Civic Engagement Emphasis, B.A. or B.S.**

**Political Science**

Political science is the study of governments, how they are organized, what they do, and how they deal with other governments. Every citizen of a democracy should know something about his/her government, and other governments, and majoring in political science also opens up many career opportunities. Political Science is an ideal major for a student intending to go to law school, and is also good preparation for government work, business, education, and other fields.

The Democracy, Justice, and Civic Engagement emphasis are of the Political Science program will stress hands-on, experiential learning and exposure to a variety of disciplines that examine the junction of democracy, justice and civic engagement. Students interested in careers in activism, community organizing or the legal profession may benefit from taking this emphasis area of the major.

**Experiential Component (Complete 1 of the Following Courses:)**
• PSC 399 - Citizenship and Service Learning 3 Credit(s).

Program Specific Requirements

B.A. Degree Program Specific (6 Credit Hours)

• 6 hours of Foreign Language at 200-level or above

B.S. Degree Program Specific (Choose 2 Courses)

• HIS 101 - Western Civilization I 3 Credit(s).
• HIS 102 - Western Civilization II 3 Credit(s).
• HIS 201 - American History I 3 Credit(s).
• HIS 202 - American History II 3 Credit(s).

Common Required Courses (12 Credit Hours)

• PSC 101 - American National Government and Politics 3 Credit(s).
• PSC 202 - State and Local Government 3 Credit(s).
  OR
• PSC 203 - International Politics 3 Credit(s).
  OR
• PSC 205 - Comparative Government 3 Credit(s).
• PSC 399 - Citizenship and Service Learning 3 Credit(s).
• SSC 251 - Introduction to Social Science Research 3 Credit(s).

Democracy, Justice and Civic Engagement Emphasis

Additional Required Courses (6 Credit Hours)

• DJC 496 - Individual or Collaborative Study 3 Credit(s).
• DJC 498 - Democracy, Justice and Civic Engagement Senior Seminar 3 Credit(s).

Government Major Electives (Choose 6 Credit Hours from the Following List)

• PSC 308 - Media and Politics 3 Credit(s).
• PSC 310 - Political Parties and Groups in the United States 3 Credit(s).
• PSC 324 - U.S. Constitutional Law 3 Credit(s).
• PSC 384 - The President and Congress 3 Credit(s).*
• PSC 420 - War and Peacekeeping: U.S. National Security Policy 3 Credit(s).
Comparative and International Relations Major Electives (Choose 6 Credit Hours from the Following List)

- PSC 302 - Political Geography 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s).

Theory and Methods Major Electives (Choose 6 Credit Hours from the Following List)

- PSC 300 - Research Methods 3 Credit(s).
- PSC 303 - Political Theory from Socrates to Locke 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).
- PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality 3 Credit(s).
- PSC 402 - Policy Analysis 3 Credit(s).

DJCE Foundational Courses (Choose 6 Credit Hours from the Following List)

- ENG 338 - Rhetoric 3 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PSC 300 - Research Methods 3 Credit(s).
OR
- SOC 470 - Social Sciences Research 3 Credit(s).

- PSY 201 - General Psychology 3 Credit(s).
- SOC 202 - Social Problems 3 Credit(s).

Legal, Policy and Advocacy Electives (Choose 6 Credit Hours from the Following List)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- CJU 320 - Deviance and Social Control 3 Credit(s).
- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
- ECO 430 - Development Economics 3 Credit(s).
- PSC 324 - U.S. Constitutional Law 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s).

Groups, Cultures, and Nationalities Electives (Choose 6 Credit Hours from the Following List)
- HIS 380 - Latin American History 3 Credit(s).
- PSC 205 - Comparative Government 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- REL 151 - World Religions 3 Credit(s).
- REL 245 - Religion and Public Life 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 310 - Social Class and Inequality 3 Credit(s).
- SOC 340 - Collective Behavior and Social Movements 3 Credit(s).

Total Credit Hours Required in Major: 54

Total Credit Hours Required in Degree: 121

**Political Science, Political Science Emphasis, B.A. or B.S.**

**Political Science**

Political science is the study of governments, how they are organized, what they do, and how they deal with other governments. Every citizen of a democracy should know something about his/her government, and other governments, and majoring in political science also opens up many career opportunities. Political Science is an ideal major for a student intending to go to law school, and is also good preparation for government work, business, education, and other fields.

The Democracy, Justice, and Civic Engagement emphasis are of the Political Science program will stress hands-on, experiential learning and exposure to a variety of disciplines that examine the junction of democracy, justice and civic engagement. Students interested in careers in activism, community organizing or the legal profession may benefit from taking this emphasis area of the major.

**Experiential Component (Complete 1 of the Following Courses:)**

- PSC 399 - Citizenship and Service Learning 3 Credit(s).

**Program Specific Requirements**

**B.A. Degree Program Specific (6 Credit Hours)**

- 6 hours of Foreign Language at 200-level or above

**B.S. Degree Program Specific (Choose 2 Courses)**

- HIS 101 - Western Civilization I 3 Credit(s).
• HIS 102 - Western Civilization II 3 Credit(s).
• HIS 201 - American History I 3 Credit(s).
• HIS 202 - American History II 3 Credit(s).

Common Required Courses (12 Credit Hours)

• PSC 101 - American National Government and Politics 3 Credit(s).
• PSC 202 - State and Local Government 3 Credit(s).
  OR
• PSC 203 - International Politics 3 Credit(s).
  OR
• PSC 205 - Comparative Government 3 Credit(s).
• PSC 399 - Citizenship and Service Learning 3 Credit(s).
• SSC 251 - Introduction to Social Science Research 3 Credit(s).

Political Science Emphasis

Additional Required Course

• PSC 498 - Capstone in Political Science 3 Credit(s).

Government Major Electives (Choose 6 Credit Hours from the Following List)

• PSC 308 - Media and Politics 3 Credit(s).
• PSC 310 - Political Parties and Groups in the United States 3 Credit(s).
• PSC 324 - U.S. Constitutional Law 3 Credit(s).
• PSC 384 - The President and Congress 3 Credit(s). *
• PSC 420 - War and Peacekeeping: U.S. National Security Policy 3 Credit(s).

Comparative and International Relations Major Electives (Choose 6 Credit Hours from the Following List)

• PSC 302 - Political Geography 3 Credit(s).
• PSC 306 - Politics and Human Rights 3 Credit(s).
• PSC 366 - Political Evil 3 Credit(s).
• PSC 435 - Political Economy of Development 3 Credit(s).
• PSC 440 - International Law and Organization 3 Credit(s). **

Theory and Methods Major Electives (Choose 6 Credit Hours from the Following List)

• PSC 300 - Research Methods 3 Credit(s).
- PSC 303 - Political Theory from Socrates to Locke 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).
- PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality 3 Credit(s).
- PSC 402 - Policy Analysis 3 Credit(s).

Other Major Electives (Choose 6 Credit Hours from the Following List)

May be any Political Science courses not used to satisfy the above requirements.

- PHI 101 - Logic 3 Credit(s).
- PSC 207 - Special Issues in Political Science 3 Credit(s).
- PSC 491 - Topics in Political Science 3 Credit(s).
- PSC 496 - Individual or Collaborative Study 1-3 Credit(s).
- PSC 499 - Internship 3, 6 or 9 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

**Pre-Professional Health Sciences, General Emphasis, B.S.**

**Pre-Professional Health Sciences**

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
- New York College of Podiatric Medicine, Doctor of Podiatric Medicine
- Shenandoah University, Doctor of Physical Therapy
• Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
• Shenandoah University, Master of Science in Occupational Therapy
• Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
• East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
• Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
• Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
• Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

• PPH 299 - Professional Preparation 1 Credit(s).
• BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
• BIO 110 - Introductory Biology I 4 Credit(s).
• BIO 111 - Introductory Biology II 4 Credit(s).
• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 104 - General Chemistry II 4 Credit(s).
  OR
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s).
• PHI 211 - Ethics 3 Credit(s).
• PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 104 - General Chemistry II 4 Credit(s).
  OR
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
• NSM 398 - Junior Seminar 3 Credit(s).
• NSM 498 - Senior Seminar 3 Credit(s).

General Emphasis

The General Emphasis includes coursework in health sciences covering cellular through organismal perspectives and permits maximum flexibility for a student with general or undeveloped interests in health sciences through the large professional elective allowance. Careful planning of professional electives is important to ensure a variety of coursework and experiences and to prepare for potential application to specific programs and schools. This emphasis may be planned to support application to a Bachelor of Science in Medical Laboratory Sciences program (see Articulation Agreements list) among others. The General Emphasis may not be combined with another emphasis area in the Pre-Professional Health Sciences major.
Program Specific Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses (16 Credit Hours)

- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Professional Electives (25 Credit Hours)

At least 12 must be at the 300-400 level

Total Credit Hours Required in Major: 55

Total Credit Hours Required in Degree: 121

Pre-Professional Health Sciences, Pre-Med Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
- New York College of Podiatric Medicine, Doctor of Podiatric Medicine
- Shenandoah University, Doctor of Physical Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
- Shenandoah University, Master of Science in Occupational Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
- East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
- Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
- Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
- Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

**Experiential Component (Complete the Following Courses:)**

- PPH 299 - Professional Preparation 1 Credit(s).
- BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
- BIO 110 - Introductory Biology I 4 Credit(s).
- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

**Liberal Arts Requirements (10 Credit Hours)**

- BIO 110 - Introductory Biology I 4 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

**Common Required Courses (14 Credit Hours)**

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
- NSF 438 - Junior Seminar 3 Credit(s).
- NSF 498 - Senior Seminar 3 Credit(s).
The Pre-Med Emphasis is designed to serve as a pre-professional course of study for students interested in applying to programs awarding the following degrees: Medical Doctor (MD), Doctor of Osteopathy (DO), Master of Science in Physician Assistant (MSPA) or Physician Assistant Studies (MPAS), Doctor of Pharmacy (PharmD), Doctor of Dental Medicine (DMD), Doctor of Dental Surgery (DDS), Doctor of Chiropractic (DC), and Doctor of Podiatric Medicine (DPM), among others (see Articulation Agreement list). Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

Program Specific Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 203 - Concepts in Calculus 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses (27 Credit Hours)

- BIO 230 - Introduction to Cell and Molecular Biology 3 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).

Professional Electives (14 Credit Hours at Least 7 at the 300-400 Level)

Suggestions:

- PHY 201 - General Physics I 4 Credit(s), AND
- PHY 202 - General Physics II 4 Credit(s).
OR
- PHY 203 - Fundamentals of Physics 4 Credit(s), AND
- PHY 204 - Fundamentals of Physics 4 Credit(s).

- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- PSY 212 - Human Growth and Development – Adulthood 3 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- CHM 220 - Principles of Pharmacology 3 Credit(s).
- CHM 305 - Analytical Chemistry 4 Credit(s).
- CHM 420 - Medicinal Chemistry 3 Credit(s).

- NSM 399 - Professional Preparation 1 Credit(s), AND
- NSM 499 - Internship 3 Credit(s).

Total Credit Hours Required in Major: 55
Total Credit Hours Required in Degree: 121

Pre-Professional Health Sciences, Pre-Nursing Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
- New York College of Podiatric Medicine, Doctor of Podiatric Medicine
- Shenandoah University, Doctor of Physical Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
- Shenandoah University, Master of Science in Occupational Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
- East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
- Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
- Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
- Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

- PPH 299 - Professional Preparation 1 Credit(s).
- BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).
- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).

Pre-Nursing Emphasis

The Pre-Nursing Emphasis is designed to serve as a pre-professional course of study for students interested in applying to Bachelor of Sciences in Nursing (BSN), Accelerated Bachelor of Science in Nursing (ABSN) and related programs at Ferrum College and other institutions (see Articulation Agreement list). Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

Program Specific Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses (22 Credit Hours)

- BIO 203 - Microbiology for Health Sciences 4 Credit(s). OR
- BIO 303 - Microbiology 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- BIO 320 - Human Nutrition 3 Credit(s).
- PSY 210 - Human Growth and Development - Lifespan 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).
Professional Electives (19 Credit Hours)

- At least 12 must be at the 300-400 level. Professional Electives must be approved by the Advisor and Program Coordinator.

Total Credit Hours Required in Major: 55

Total Credit Hours Required in Degree: 121

Pre-Professional Health Sciences, Pre-Therapy Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
- New York College of Podiatric Medicine, Doctor of Podiatric Medicine
- Shenandoah University, Doctor of Physical Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
- Shenandoah University, Master of Science in Occupational Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
- East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
- Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
- Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
- Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)
- PPH 299 - Professional Preparation 1 Credit(s).
- BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).
- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).

Pre-Therapy Emphasis

The Pre-Therapy Emphasis is designed to serve as a pre-professional course of study for students interested in applying to programs awarding the following degrees: Doctor of Physical Therapy (DPT), Master of Science in Occupational Therapy (MOT), and Doctor of Occupational Therapy (OTD), among others (see Articulation Agreement list). Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

Program Specific Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses (30 Credit Hours)

- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
• HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
• HHP 355 - Physiology of Exercise 3 Credit(s).
• PSY 210 - Human Growth and Development - Lifespan 3 Credit(s).
• PSY 320 - Abnormal Psychology 3 Credit(s).
• SOC 101 - General Sociology 3 Credit(s).
• NSM 399 - Professional Preparation 1 Credit(s).
• NSM 499 - Internship 3 Credit(s).

Professional Electives (14 Credit Hours at Least 7 at the 300-400 Level)

Suggested Electives for Physical Therapy Graduate Program preparation are:

• MTH 203 - Concepts in Calculus 3 Credit(s).
• PHY 201 - General Physics I 4 Credit(s). AND
  PHY 202 - General Physics II 4 Credit(s).
  OR
• PHY 203 - Fundamentals of Physics 4 Credit(s). AND
• PHY 204 - Fundamentals of Physics 4 Credit(s).

Total Credit Hours Required in Major: 55

Total Credit Hours Required in Degree: 121

Pre-Professional Health Sciences, Pre-Vet Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

• Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
• Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
University of Charleston School of Pharmacy, Doctor of Pharmacy
Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
Sherman College of Chiropractic, Doctor of Chiropractic
New York College of Podiatric Medicine, Doctor of Podiatric Medicine
Shenandoah University, Doctor of Physical Therapy
Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
Shenandoah University, Master of Science in Occupational Therapy
Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

- PPH 299 - Professional Preparation 1 Credit(s).
- BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).
- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).

Pre-Vet Emphasis
The Pre-Vet Emphasis is designed to serve as a pre-professional course of study for students interested in programs and careers in veterinary medicine (DVM) or more broadly veterinary science. Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

**Program Specific Requirements (11 Credit Hours)**

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 203 - Concepts in Calculus 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

**Required Courses (35 Credit Hours)**

- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- BIO 230 - Introduction to Cell and Molecular Biology 3 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).
- PHY 201 - General Physics I 4 Credit(s). AND
- PHY 202 - General Physics II 4 Credit(s).
  OR
- PHY 203 - Fundamentals of Physics 4 Credit(s). AND
- PHY 204 - Fundamentals of Physics 4 Credit(s).

**Professional Electives (6 Credit Hours)**

Suggestions:

- AGS 110 - Agriculture Issues 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 330 - Cell Biology 4 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).
- CHM 220 - Principles of Pharmacology 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s). AND
- NSM 499 - Internship 3 Credit(s).

Total Credit Hours Required in Major: 55

Total Credit Hours Required in Degree: 121

**Psychology (Minor Required), B.S.**
Psychology is the scientific study of behavior and mental processes. Baccalaureate majors receive a broad background in the science of psychology which prepares them to enter graduate or professional schools or prepares them for careers in which knowledge of human thought and behavior is essential. In the junior and senior years, students may elect field placement and internship experiences which integrate classroom learning with practical professional experience and which enhance preparedness for employment or graduate training. Students qualify for an internship by earning a 2.5 grade point average; and by successfully completing an interview with a departmental faculty member.

Experiential Component (Complete 1 of the Following Courses:)

- PSY 299 - Field Experience 1-2 Credit(s).
- PSY 307 - Advanced Research Methods and Statistics 3 Credit(s).
- PSY 496 - Directed Study in Psychology 1-2 Credit(s).
- PSY 499 - Internship 3, 6 or 9 Credit(s).

Liberal Arts Requirements (3-6 Credit Hours)

- MTH 107 - Introduction to Finite Mathematics 3 Credit(s), or higher
- MTH 208 - Introductory Statistics 3 Credit(s). is highly recommended

Required Courses (18 Credit Hours)

- PSY 201 - General Psychology 3 Credit(s).
- PSY 297 - Professional Seminar: Introduction to Field of Psychology 1 Credit(s).
- PSY 306 - Intro to Research Methods and Statistics 3 Credit(s).
- PSY 307 - Advanced Research Methods and Statistics 3 Credit(s).
- PSY 333 - Biological Psychology 3 Credit(s).
- PSY 398 - Professional Seminar: Legal and Ethical Issues in Psychology 2 Credit(s).
- PSY 498 - Professional Seminar: Capstone Experience in Psychology 3 Credit(s).

Major Electives (Choose 21 Hours from the Following:)

- PSY 210 - Human Growth and Development - Lifespan 3 Credit(s).
- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- PSY 212 - Human Growth and Development – Adulthood 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- PSY 298 - Pre-Professional Placement 3 Credit(s).
- PSY 299 - Field Experience 1-2 Credit(s).
- PSY 314 - Learning 3 Credit(s).
- PSY 320 - Abnormal Psychology 3 Credit(s).
- PSY 325 - Psychopathology of Childhood 3 Credit(s).
- PSY 328 - Health Psychology 3 Credit(s).
- PSY 331 - Cognitive Development 3 Credit(s).
- PSY 332 - Cognitive Psychology 3 Credit(s).
- PSY 335 - Psychological and Educational Assessment 3 Credit(s).
- PSY 340 - Personality 3 Credit(s).
- PSY 345 - Sport Psychology 3 Credit(s).
• PSY 348 - Techniques of Counseling 3 Credit(s).
• PSY 355 - Science of Sleep 3 Credit(s).
• PSY 438 - Topics in Psychology 3 Credit(s).
• PSY 450 - History and Systems of Psychology 3 Credit(s).
• PSY 496 - Directed Study in Psychology 1-2 Credit(s).
• PSY 499 - Internship 3, 6 or 9 Credit(s).
• SSC 206 - APA Style Writing 2 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Prerequisites: PSY 201 is normally a prerequisite for all other psychology courses. For PSY 211, PSY 212, and PSY 230, permission of the instructor may be substituted for the PSY 201 prerequisite. There are additional prerequisites for PSY 306-PSY 307, PSY 348, PSY 450, PSY 496 and PSY 498 (see Course Descriptions).

Recreation Leadership (Minor Required), Outdoor Recreation Specialist Emphasis, B.S.

Recreation Leadership

The Recreation Leadership program is founded on the principle that healthy recreation and leisure pursuits are critical to the development of the complete individual with a holistic approach to living. The recreation professional, regardless of the specific sector, is crucial in delivering high quality recreation and leisure experiences that impact individuals in meaningful ways. Through experiential and traditional learning environments coupled with direct application of theory and best practices, the Recreation Leadership student will develop core competencies and build on the leadership, critical thinking and problem solving skills necessary for success in a broad range of career settings.

The Recreation Leadership major prepares the student for a variety of recreation settings including local, state and federal agencies, non-profit organizations, recreation services, natural and historic interpretation agencies, as well as commercial enterprises.

Experiential Component (Complete the Following Courses):

• REC 499 - Internship 4 Credit(s).

Liberal Arts Requirement (4 Credit Hours)

• ESC 102 - Introduction to Environmental Science 4 Credit(s).

Program Specific Requirements (12 Credit Hours)

• ACC 110 - Introduction to Accounting 3 Credit(s).
• ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).

Choose one of the following courses:
- ESC 302 - Conservation Biology 3 Credit(s).
- OR
- ESC 313 - Natural Resource Management 3 Credit(s).

Common Required Courses (23 Credit Hours)
- REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
- REC 270, 271 to 470, 471 - Recreation Practicum 1 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
- REC 410 - Recreation Administration 3 Credit(s).
- REC 413 - Recreation Facility Planning, Development, and Maintenance 3 Credit(s).
- REC 440 - Recreation Seminar 3 Credit(s).
- REC 499 - Internship 4 Credit(s).

Outdoor Recreation Specialist Emphasis (15 Credit Hours)
- REC 325 - Wilderness Leadership I 3 Credit(s).
- REC 343 - Facilitation of Adventure Pursuits 3 Credit(s).
- REC 361 - Outdoor Education 3 Credit(s).

Recreation Activity Electives (3 Credit Hours)
- REC 103 - Backpacking and Hiking 1 Credit(s).
- REC 104 - Rock Climbing and Rappelling 1 Credit(s).
- REC 106 - Outdoor Water Sports 1 Credit(s).
- REC 107 - Introduction to Fly Fishing 1 Credit(s).
- REC 108 - Trail Design and Construction 1 Credit(s).
- REC 139 - Orienteering 1 Credit(s).

Choose 3 credits from the following:

Recreation Leadership Required Electives
- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 217 - Introduction to Photography 3 Credit(s).

- ART 220 - Introduction to Museum Studies 3 Credit(s). OR
- HIS 220 - Introduction to Museum Studies 3 Credit(s).

- BIO 311 - Field Botany 4 Credit(s).
- BUS 304 - Advertising 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
• ECT 257 - Interpreting Culture and Nature 3 Credit(s).
• ECT 265 - Foundations of Ecotourism 3 Credit(s).
• ECT 357 - Applied Interpretation 3 Credit(s).
• ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
• ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
• ENG 211 - Literature and the Environment 3 Credit(s).
• EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
• EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).
• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s). OR
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
• ESC 205 - Tropical and Marine Ecology 4 Credit(s). (E-Term)
• ESC 206 - Community Ecology of the Southeast 4 Credit(s). (E-Term)
• ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s). (E-Term)
• GEO 220 - Physical Geography 4 Credit(s).
• GEO 221 - Geographic Information Systems 4 Credit(s).
• HHP 200 - Health and Wellness Concepts 3 Credit(s).
• HHP 330 - Coaching the Athlete 3 Credit(s).
• REC 325 - Wilderness Leadership I 3 Credit(s). (non-Outdoor Emphasis only)
• REC 343 - Facilitation of Adventure Pursuits 3 Credit(s). (non-Outdoor Emphasis only)
• REC 372 - Eco-Adventure 3 Credit(s). (E-Term)
• REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s).
• SCI 123 - Global Ecology and Climate Change 2 Credit(s).
• SCI 126 - Natural Resource Conservation 2 Credit(s).
• SOC 470 - Social Sciences Research 3 Credit(s).
• Any Study-Away/E-Term Travel Course Credit Hour(s): 3-4
• Any Foreign Language course Credit Hour(s): 3

Total Credit Hours Required in Major (Minor Required): 38

Total Credit Hours Required in Degree: 121

Recreation Leadership (Minor Required), Recreation Management Emphasis, B.S.

Recreation Leadership

The Recreation Leadership program is founded on the principle that healthy recreation and leisure pursuits are critical to the development of the complete individual with a holistic approach to living. The recreation professional, regardless of the specific sector, is crucial in delivering high quality recreation and leisure experiences that impact individuals in meaningful ways. Through experiential and traditional learning environments coupled with direct application of theory and best practices, the Recreation Leadership student will develop core competencies and build on the leadership, critical thinking and problem solving skills necessary for success in a broad range of career settings.
The Recreation Leadership major prepares the student for a variety of recreation settings including local, state and federal agencies, non-profit organizations, recreation services, natural and historic interpretation agencies, as well as commercial enterprises.

**Experiential Component (Complete the Following Courses:)**

- REC 499 - Internship 4 Credit(s).

**Liberal Arts Requirement (4 Credit Hours)**

- ESC 102 - Introduction to Environmental Science 4 Credit(s).

**Program Specific Requirements (12 Credit Hours)**

- ACC 110 - Introduction to Accounting 3 Credit(s).
- ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).

Choose one of the following courses:
- ESC 302 - Conservation Biology 3 Credit(s).
  OR
- ESC 313 - Natural Resource Management 3 Credit(s).

**Common Required Courses (23 Credit Hours)**

- REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
- REC 270, 271 to 470, 471 - Recreation Practicum 1 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
- REC 410 - Recreation Administration 3 Credit(s).
- REC 413 - Recreation Facility Planning, Development, and Maintenance 3 Credit(s).
- REC 440 - Recreation Seminar 3 Credit(s).
- REC 499 - Internship 4 Credit(s).

**Recreation Management Emphasis (16 Credit Hours)**

Choose one of the following courses:
- REC 103 - Backpacking and Hiking 1 Credit(s). OR
- REC 104 - Rock Climbing and Rappelling 1 Credit(s). OR
- REC 106 - Outdoor Water Sports 1 Credit(s). OR
- REC 107 - Introduction to Fly Fishing 1 Credit(s). OR
- REC 108 - Trail Design and Construction 1 Credit(s). OR
- REC 139 - Orienteering 1 Credit(s).

Complete the following courses:
- REC 319 - Recreation Delivery Systems 3 Credit(s).
- REC 341 - Program Planning and Leadership 3 Credit(s).
• REC 450 - Special Events Planning and Management 3 Credit(s).
• Complete 6 or more credit hours of Required Electives (listed below)

Recreation Leadership Required Electives

• ART 102 - Three-Dimensional Design 3 Credit(s).
• ART 217 - Introduction to Photography 3 Credit(s).
• ART 220 - Introduction to Museum Studies 3 Credit(s).
• HIS 220 - Introduction to Museum Studies 3 Credit(s).
• BIO 311 - Field Botany 4 Credit(s).
• BUS 304 - Advertising 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
• ECT 257 - Interpreting Culture and Nature 3 Credit(s).
• ECT 265 - Foundations of Ecotourism 3 Credit(s).
• ECT 357 - Applied Interpretation 3 Credit(s).
• ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
• ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
• ENG 211 - Literature and the Environment 3 Credit(s).
• EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
• EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).
• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
• ESC 205 - Tropical and Marine Ecology 4 Credit(s). (E-Term)
• ESC 206 - Community Ecology of the Southeast 4 Credit(s). (E-Term)
• ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s). (E-Term)
• GEO 220 - Physical Geography 4 Credit(s).
• GEO 221 - Geographic Information Systems 4 Credit(s).
• HHP 200 - Health and Wellness Concepts 3 Credit(s).
• HHP 330 - Coaching the Athlete 3 Credit(s).
• REC 325 - Wilderness Leadership I 3 Credit(s). (non-Outdoor Emphasis only)
• REC 343 - Facilitation of Adventure Pursuits 3 Credit(s). (non-Outdoor Emphasis only)
• REC 372 - Eco-Adventure 3 Credit(s). (E-Term)
• REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s).
• SCI 123 - Global Ecology and Climate Change 2 Credit(s).
• SCI 126 - Natural Resource Conservation 2 Credit(s).
• SOC 470 - Social Sciences Research 3 Credit(s).
• Any Study-Away /E-Term Travel Course Credit Hour(s): 3-4
• Any Foreign Language course Credit Hour(s): 3

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121
Religion (Minor Required), B.A.

Students majoring in religion learn to read texts (both ancient and modern) carefully; study the oral traditions, stories, rituals, and structures of religious communities; explore the beliefs and values of different religious traditions; and develop a critical perspective to the diverse cultural expressions of both Christian and non-Christian religions. Many graduates work in churches or continue their education in seminary. A religion major or minor also serves as excellent preparation for other graduate programs or careers because of the emphasis on reading, writing, analyzing, and speaking.

Experiential Component (Complete 1 of the Following Courses:)

- REL 397, 398 or 399 - Ministry Practicum 1-3 Credit(s).
- REL 481 or 482 - Seminar in Religious Studies 3 Credit(s).

Program Specific Requirements (6 Credit Hours)

- 6 hours of a foreign language

Required Major Courses (18 Credit Hours)

Select 18 hours from the following areas:

**Biblical (Choose 3 Credit Hours from the Following List)**

- REL 111 - Literature of the Bible 3 Credit(s).
- REL 112 - Literature of the Old Testament 3 Credit(s).
- REL 113 - Literature of the New Testament 3 Credit(s).
- REL 311 - Prophetic Literature of the Old Testament 3 Credit(s).
- REL 315 - Studies in the Gospel 3 Credit(s).
- REL 316 - Life and Letters of Paul 3 Credit(s).

**Historical (Choose 3 Credit Hours from the Following List)**

- PHI 221 - Survey of Ancient and Medieval Philosophy 3 Credit(s).
- PHI 222 - Survey of Modern Philosophy 3 Credit(s).
- REL 210 - American Gods 3 Credit(s).
- REL 222 - History of Christian Thought 3 Credit(s).
- REL 320 - Jesus and His Afterlives 3 Credit(s).
- REL 401 - Biblical Archaeology 3 Credit(s).

**Theological (Choose 3 Credit Hours from the Following List)**

- HON 225 - Religion and Science: Historical and Contemporary Perspectives 3 Credit(s).
• PHI 211 - Ethics 3 Credit(s).
• PHI 431 - Philosophy of Religion 3 Credit(s).
• REL 216 - Religion in Film 3 Credit(s).
• REL 245 - Religion and Public Life 3 Credit(s).
• REL 331 - Christian Theology 3 Credit(s).

Comparative (Choose 3 Credit Hours from the Following List)

• REL 151 - World Religions 3 Credit(s).
• REL 207 - Selected Topics 3 Credit(s). (when topics include non-Christian religions: e.g., Islam or Hinduism and Buddhism courses have been offered in recent years.)
• REL 251 - Interfaith Dialogue and Understanding 3 Credit(s).

Seminar (Choose 3 Credit Hours from the Following List)

• REL 481 or 482 - Seminar in Religious Studies 3 Credit(s).

Religion Major Electives (18 Credit Hours)

Choose 18 Credit Hours from the Following:

• Up to three philosophy courses with the approval of the program coordinator.
• Any additional REL courses
• HON 206 - The Bible and The Arts 3 Credit(s).
• HON 225 - Religion and Science: Historical and Contemporary Perspectives 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 36

Total Credit Hours Required in Degree: 121

Social Studies (Minor Required), B.S.

The social studies major is designed for students who seek a broad, but structured and well integrated education in the social sciences. Students can achieve breadth of learning and versatility in its application through this multidisciplinary program of study. Combined with a minor in education, the social studies major is excellent preparation for those planning to teach history, government, or economics at the secondary school level.

For licensure in Social Studies, students must complete EDU 404 Student Teaching and Synthesis Experience.

Experiential Component (Complete 1 of the Following Courses:)

• Any History or Political Science E-Term course
• Any Study Away course which grants academic credit
• HIS 498 - Senior Seminar 3 Credit(s).
Liberal Arts Requirements (12 Credit Hours)

- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).
- PSC 101 - American National Government and Politics 3 Credit(s).
- REL 151 - World Religions 3 Credit(s).

Program Specific Requirements (5 Credit Hours)

- COM 201 - Public Speaking 3 Credit(s).
- SCI 121 - Population, Food, and Environment 2 Credit(s).

Required Courses (27 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- HIS 101 - Western Civilization I 3 Credit(s).
- HIS 316 - Virginia History 3 Credit(s).
- HIS 398 - Historiography 3 Credit(s).
- PSC 202 - State and Local Government 3 Credit(s).
- PSC 302 - Political Geography 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).

Non-Western History (Choose 3 Credit Hours from the Following List)

- HIS 371 - China 3 Credit(s).
- HIS 373 - India 3 Credit(s).
- HIS 374 - Southeast Asia 3 Credit(s).
- HIS 375 - Sub-Saharan Africa 3 Credit(s).
- HIS 378 - North Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).

Major Electives (9 Credit Hours)

- Any 300/400 level HIS or PSC courses

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Ferrum College offers teaching licensure in Social Studies (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education Minor) There is no licensure in History.
Social Work, B.S.W.

The social work program at Ferrum College is accredited by the Council on Social Work Education. Field experience is the "signature pedagogy" of the Ferrum College Social Work Program. Our graduates receive the B.S.W. degree which prepares them for the beginning professional generalist practice of social work. Instruction in the program emphasizes the theoretical foundations of beginning generalist social work practice in both rural and urban communities through coursework and extensive experiential learning.

The curriculum focuses on the importance of respect for diversity, advocacy for social and economic justice and empowerment of at-risk populations which are blended throughout an academic presentation of values, ethics, and knowledge for practice of the social work profession. Classroom learning, community-based service learning projects, and supervised direct practice are incorporated into the curriculum. An initial course experience (SWK 299) is recommended and takes place in a community setting within a local social service delivery system. The student is required to complete two semesters of field experiences and concurrent seminars during the senior year while also taking related social work practice courses and the senior capstone course in the final spring semester. The senior participates in an extensive agency experience supervised by both a faculty liaison and a field instructor who has earned the B.S.W. or M.S.W. degree. The program utilizes a broad spectrum of settings for field placements including public and private child welfare agencies, child advocacy programs, physical and behavioral health settings, hospice agencies, nursing and rehabilitation centers, substance abuse and mental health programs, public schools, community action agencies, juvenile court services and adult probation offices. Field placements are developed to fit the students' career objectives. The program values the holistic approach to education as well as a student's need for a total college experience, in addition to focusing on preparation for the beginning professional practice of social work.

Experiential Component (Complete the Following Courses:)

- SWK 489 - Senior Field Practicum and Seminar I 3 Credit(s).
- SWK 499 - Field Practicum and Seminar II 9 Credit(s).

Program Specific Requirements (Choose 6 Credit Hours from the Following List)

Choose one of the following courses:
- BUS 230 - Computer Applications 3 Credit(s). OR
- CSC 100 - Computer Literacy 3 Credit(s).

Choose one of the following courses:
- ECO 201 - Principles of Macroeconomics 3 Credit(s). OR
- PSC 101 - American National Government and Politics 3 Credit(s). OR
- PSC 202 - State and Local Government 3 Credit(s).

Admission to the Program

Students not meeting all the below requirements, due to special circumstances, may be eligible to seek a waiver from the Social Work Program Coordinator.

Concurrent with the semester, or just after, in which the below Liberal Arts Requirements and Pre-Professional courses are completed, students should have completed or plan to enroll in SWK 297 - Professional Preparation Seminar I (usually fall semester sophomore or junior year). This course assists students to review all of the Social Work Major Requirements and prepare to submit the Application to the Professional Social Work Program. The student must
complete a formal interview which includes outside social work professionals. Often the interviewers will be Ferrum College BSW alumni. If a student meets all academic requirements, and the application process is approved, then the student may advance to the professional program courses.

Students desiring formal acceptance into the social work major must have earned a minimum GPA of at least a 2.2 overall and in the major courses. In addition, the following course requirements must be completed with a grade of "C" or higher:

Liberal Arts Requirements (10 Credit Hours)

- ENG 102 - Composition and Research 3 Credit(s).
- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- SCI 128 - The Healthy Human Body 2 Credit(s).
- SCI 129 - The Diseased Human Body 2 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).
  OR
- SOC 202 - Social Problems 3 Credit(s).

Pre-Professional Status Requirements (7 Credit Hours)

- PSY 201 - General Psychology 3 Credit(s).
- SWK 201 - Introduction to Social Work 3 Credit(s).
- SWK 297 - Professional Preparation Seminar I 1 Credit(s).

Continuation in the Program

A social work major must successfully complete all courses required in the Professional Status listing below with a minimum grade of "C" or higher. If the student drops below a GPA 2.2 overall or within the major, the student will be removed from the program. The student would have to formally reapply for consideration to be readmitted.

Required Courses Professional Status (50 Credit Hours)

- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
  OR
- PSY 212 - Human Growth and Development – Adulthood 3 Credit(s).
- PSY 320 - Abnormal Psychology 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).
- SWK 305 - Social Work Practice I 3 Credit(s).
- SWK 321 - Social Welfare Policy: Analysis, Formulation, and Implementation 3 Credit(s).
- SWK 330 - Human Behavior and the Social Environment 3 Credit(s).
- SWK 397 - Professional Preparation Seminar II 1 Credit(s).
- SWK 405 - Social Work Practice II 3 Credit(s).
- SWK 410 - Social Work Practice III 3 Credit(s).
- SWK 489 - Senior Field Practicum and Seminar I 3 Credit(s).
- SWK 497 - Professional Preparation Seminar III 1 Credit(s).
- SWK 498 - Social Work Senior Capstone 3 Credit(s).
- SWK 499 - Field Practicum and Seminar II 9 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Prerequisites: Most social work courses have other social work courses as prerequisites; see the course descriptions for details. PSY 201 is a prerequisite for other psychology courses.

Sociology, Public Sociology Emphasis, B.A. or B.S.

Sociology

Sociology is the study of basic traits, values and beliefs and how the intersection of these concepts influence behavior of individuals, groups and society. The bachelor's degree is designed to prepare students to confront the basic challenge of understanding ourselves and others more fully. Sociology students will develop a sociological perspective by actively questioning the way our society operates and why the social structure provides privilege for some while disadvantaging others. Through completion of a well-rounded liberal arts core, courses in comparative theory, historic and present-day policy, and applied research dealing with human subjects, sociology majors will be prepared to succeed in career paths or graduate schools which demand a flexible, resourceful, critically thinking individual.

Sociology majors must participate in a three credit internship with a community agency to practice strong communication skills, critical thinking and ethical problem solving. While engaged in this internship they will identify a topic related to the needs and/or goals of the agency to be investigated through scientific research through a combination of concurrent courses: SOC 391, SOC 370 Fall, and SOC 470 (a capstone class) in their senior year. Students will meet the experiential component for the major by successfully completing SOC 391. This undergraduate program offers two emphasis areas – preparing students to engage in Public Sociology or Research Development

Experiential Component (Complete the Following Course:)

- SOC 391 - Directed Study in Sociology 1-3 Credit(s).

Liberal Arts Requirements

B.A. Program Specific Requirements (12 Credit Hours)

- CSC 100 - Computer Literacy 3 Credit(s).
  OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
• MTH 208 - Introductory Statistics 3 Credit(s).
• Six credit hours of foreign language at the 200 level Credit Hour(s): 6

B.S. Program Specific Requirements (12 Credit Hours)

• CSC 100 - Computer Literacy 3 Credit(s).
  OR
• CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
• MTH 208 - Introductory Statistics 3 Credit(s).
• PSY 230 - Social Psychology 3 Credit(s).
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

Common Required Courses (33 Credit Hours)

(Regardless of degree or emphasis)

• HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
• SOC 202 - Social Problems 3 Credit(s).
• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
• SOC 207 - Sociology of Sex and Gender Roles 3 Credit(s).
• SOC 301 - Classical Social Theory 3 Credit(s).
• SOC 310 - Social Class and Inequality 3 Credit(s).
• SOC 340 - Collective Behavior and Social Movements 3 Credit(s).
• SOC 370 - Introduction to Field Based Case Study Research 3 Credit(s).
• SOC 391 - Directed Study in Sociology 1-3 Credit(s).
• SOC 401 - Survey of Modern Era Social Theory 3 Credit(s).
• SOC 470 - Social Sciences Research 3 Credit(s).

Public Sociology Emphasis (15 Credit Hours)

From the following: Complete 15 credits by selecting at least 6 hours from SOC courses at the 300 level or above, and 9 hours from other disciplines:

• CJU 201 - Introduction to Criminal Justice 3 Credit(s).
• CJU 310 - Victimology 3 Credit(s).
• CJU 320 - Deviance and Social Control 3 Credit(s).
• CJU 311 - Restorative Justice 3 Credit(s).
• HUM 302 - African-American Studies: Forty Years and a Dream 3 Credit(s).
• PSC 202 - State and Local Government 3 Credit(s).
• PSC 203 - International Politics 3 Credit(s).
• PSC 306 - Politics and Human Rights 3 Credit(s).
• PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality 3 Credit(s).
• SOC 205 - Marriage and the Family 3 Credit(s).
• SOC 303 - Cultural Diversity Applications in Schools and Society 3 Credit(s).
• SOC 330 - Organizations and Behavior 3 Credit(s).
• SOC 333 - Population Dynamics 3 Credit(s).
- SOC 450 - Changing Roles in the Life Course 3 Credit(s).
- SSC 301 - Social Entrepreneurial Leadership 3 Credit(s).
- SWK 201 - Introduction to Social Work 3 Credit(s).
- SWK 355 - Child Welfare Systems and Services 3 Credit(s).

Total Credit Hours Required for Major (Minor Required): 48

Total Credit Hours Required in Degree: 121

**Sociology, Research Development Emphasis, B.A. or B.S.**

**Sociology**

Sociology is the study of basic traits, values and beliefs and how the intersection of these concepts influence behavior of individuals, groups and society. The bachelor's degree is designed to prepare students to confront the basic challenge of understanding ourselves and others more fully. Sociology students will develop a sociological perspective by actively questioning the way our society operates and why the social structure provides privilege for some while disadvantaging others. Through completion of a well-rounded liberal arts core, courses in comparative theory, historic and present-day policy, and applied research dealing with human subjects, sociology majors will be prepared to succeed in career paths or graduate schools which demand a flexible, resourceful, critically thinking individual.

Sociology majors must participate in a three credit internship with a community agency to practice strong communication skills, critical thinking and ethical problem solving. While engaged in this internship they will identify a topic related to the needs and/or goals of the agency to be investigated through scientific research through a combination of concurrent courses: SOC 391, SOC 370 Fall, and SOC 470 (a capstone class) in their senior year. Students will meet the experiential component for the major by successfully completing SOC 391. This undergraduate program offers two emphasis areas – preparing students to engage in Public Sociology or Research Development

**Experiential Component (Complete the Following Course:)**

- SOC 391 - Directed Study in Sociology 1-3 Credit(s).

**Liberal Arts Requirements**

**B.A. Program Specific Requirements (12 Credit Hours)**

- CSC 100 - Computer Literacy 3 Credit(s).
  OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).

- MTH 208 - Introductory Statistics 3 Credit(s).
- Six credit hours of foreign language at the 200 level Credit Hour(s): 6
B.S. Program Specific Requirements (12 Credit Hours)

- CSC 100 - Computer Literacy 3 Credit(s).
  OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

Common Required Courses (33 Credit Hours)

(Regardless of degree or emphasis)

- HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
- SOC 202 - Social Problems 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 207 - Sociology of Sex and Gender Roles 3 Credit(s).
- SOC 301 - Classical Social Theory 3 Credit(s).
- SOC 310 - Social Class and Inequality 3 Credit(s).
- SOC 340 - Collective Behavior and Social Movements 3 Credit(s).
- SOC 370 - Introduction to Field Based Case Study Research 3 Credit(s).
- SOC 391 - Directed Study in Sociology 1-3 Credit(s).
- SOC 401 - Survey of Modern Era Social Theory 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).

Research Development Emphasis (15 Credit Hours)

From the following: Complete 15 credits by selecting at least 6 hours from SOC courses at the 300 level or above, and 9 hours from other disciplines:

- CJU 320 - Deviance and Social Control 3 Credit(s).
- HUM 302 - African-American Studies: Forty Years and a Dream 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).
- SOC 205 - Marriage and the Family 3 Credit(s).
- SOC 330 - Organizations and Behavior 3 Credit(s).
- SOC 333 - Population Dynamics 3 Credit(s).
- SOC 450 - Changing Roles in the Life Course 3 Credit(s).
- SSC 290 - Stewardship toward Sustainability Immersion 3 Credit(s).

Total Credit Hours Required for Major (Minor Required): 48

Total Credit Hours Required in Degree: 121
Spanish (Minor Required), B.A.

The Spanish major provides a program of study designed to develop linguistic proficiency and cultural competence. The goal of the Spanish major is to nurture an appreciation and understanding of the diversity of the Hispanic world. The program encourages civic engagement, critical thinking, strong written and oral communication skills, and global awareness through the study of culture, language, artistic expression, current events, travel, and service. The program prepares students for work and graduate study in education, social work, psychology, criminal justice, business, health sciences, environmental studies, agriculture, journalism, tourism, law, government work, and many more.

Experiential Component

The Experiential Component (requirement of the major) can be met by successfully completing:

- An approved study away program in a Spanish-speaking country (in the E-Term or through one of our partner institutions).

Required Major Courses (9 Credit Hours)

- SPA 301 - Advanced Grammar and Composition 3 Credit(s).
- SPA 302 - Advanced Speaking and Comprehension 3 Credit(s). (Speaking Intensive)

Complete one of the following courses:

- SPA 250 - Special Topics in Hispanic Culture 3 Credit(s).
  OR
- SPA 299 - Latino Communities in the U.S. 3 Credit(s).

Major Electives (Choose 21 Credit Hours from the Following List)

- SPA 201 - Intercultural Competence Through Language 1 3 Credit(s).
- SPA 202 - Intermediate Language and Culture II 3 Credit(s).
- SPA 221 - Intermediate Language Lab I 1 Credit(s).
- SPA 222 - Intermediate Language Lab II 1 Credit(s).
- SPA 250 - Special Topics in Hispanic Culture 3 Credit(s).
- SPA 299 - Latino Communities in the U.S. 3 Credit(s).
- SPA 311 - Spanish for the Professions Credit(s).
- SPA 320 - Introduction to Literature in Spanish 3 Credit(s).
- SPA 325 - Spanish Civilization & Culture 3 Credit(s).
- SPA 326 - Latin American Civilization & Culture 3 Credit(s).
- SPA 403 - Special Topics in Hispanic Culture 3 Credit(s).
- SPA 404 - Selected Topics in Hispanic Literature 3 Credit(s).
- SPA 451 or 452 - Directed Study 3 Credit(s).
- SPA 453 - Directed Study 3 Credit(s).
- SPA 454 - Directed Study 3 Credit(s).
- SPA 499 - Internship 3 Credit(s).
Additional Electives (Choose 6 Credit Hours from the Following List)

- ACC 407 - International Accounting 3 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- ART 325 - Modern Art and the Twentieth Century 3 Credit(s).
- BUS 420 - International Business 3 Credit(s).
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- CHM 412 - Environmental Chemistry 3 Credit(s).
- COM 201 - Public Speaking 3 Credit(s).
- DJC 498 - Democracy, Justice and Civic Engagement Senior Seminar 3 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- ECO 400 - International Finance 3 Credit(s).
- ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
- ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 210 - World Folktales and Literature 3 Credit(s).
- ESC 302 - Conservation Biology 3 Credit(s).
- GEO 220 - Physical Geography 4 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).
- HUM 333 - Intercultural Conflict Mediation 3 Credit(s).
- IST 350 - International Relations Theory 3 Credit(s).
- PHI 131 - The Human Condition 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- REC 319 - Recreation Delivery Systems 3 Credit(s).
- REC 343 - Facilitation of Adventure Pursuits 3 Credit(s).
- REL 151 - World Religions 3 Credit(s).
- SCI 123 - Global Ecology and Climate Change 2 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 310 - Social Class and Inequality 3 Credit(s).
- SWK 299 - Introduction to Community Service 3 Credit(s).
- SWK 330 - Human Behavior and the Social Environment 3 Credit(s).
- THA 222 - Voice and Diction 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 36

Total Credit Hours Required in Degree: 121

Theatre Arts (Minor Required), B.A.

The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing
theatre arts serves "not self, but others." In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.A. is frequently, but not exclusively, chosen by those wishing to pursue M.A. and Ph.D. degrees. This is also the program chosen by those seeking Teacher Licensure. The student's choice of minor may open up careers in such fields as Drama Therapy, Historical Re-enactment, Dramaturgy, Theatre Management, or Play Writing.

Note: Students majoring in Theatre may not minor in Theatre.

**Required Common Theatre Courses (21 Credit Hours)**

- THA 111 - Fundamentals of Acting I 3 Credit(s).
- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 205 - Applied Summer Theatre I 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
- THA 498 - Senior Seminar 3 Credit(s).

**Theatre Electives (Choose 18 Credit Hours from the Following List)**

(Please note that a minimum of 19 credit hours @ 300-400 level is required in Major.)

- THA 202 - Stage Craft 3 Credit(s).
- THA 233 - Introduction to Musical Theatre 3 Credit(s).
- THA 246 - Play Production I: Beginning Directing 3 Credit(s).
- THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).
- THA 305 - Applied Summer Theatre II 3 Credit(s).
- THA 405 - Applied Summer Theatre III 3 Credit(s).
- THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
- THA 346 - Readers Theatre 3 Credit(s).
- THA 412, 413 or 414 - Special Theatre Topics 1-3 Credit(s).
- THA 446 - Directing 3 Credit(s).

**Total Credit Hours Required in Major (Minor Required): 39**

(Please note that a minimum of 19 credits hours at the 300-400 level is required within major.)

**Total Credit Hours Required in Degree: 121**
The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing theatre arts serves “not self, but others.” In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.F.A. is frequently, but not exclusively, chosen by those students wishing to pursue M.F.A. Degrees and professional performing careers. It stresses heavy course and performance work in the area of emphasis. Students pursuing this degree normally declare no later than five semesters before graduation. If graduation is sooner, they must gain the endorsement of the program coordinator. There are three emphasis areas: Acting/Directing, Musical Theatre, and Technical Theatre.

Required Common Theatre Courses (21 Credit Hours)

- THA 111 - Fundamentals of Acting I 3 Credit(s).
- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 205 - Applied Summer Theatre I 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
- THA 498 - Senior Seminar 3 Credit(s).

Acting/Directing Emphasis (36 Credit Hours)

Acting/Directing Required Courses (18 Credit Hours)

- THA 202 - Stage Craft 3 Credit(s).
- THA 222 - Voice and Diction 3 Credit(s).
- THA 246 - Play Production I: Beginning Directing 3 Credit(s).
- THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).
- THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
- THA 446 - Directing 3 Credit(s).

Dance Electives (Choose 3 Credit Hours from the Following List)

- DAN 105 - Fundamentals of Dance Styles 1 Credit(s).
DAN 106 - Fundamentals of Dance Styles 1 Credit(s).
DAN 110 - Beginning Dance for Performance I 1 Credit(s).
DAN 111 - Beginning Dance for Performance II 1 Credit(s).
DAN 121 - Rhythm with the Feet 1 Credit(s).

Music Elective (Choose 3 Credit Hours from the Following List)

- MUS 102 - Music Fundamentals 3 Credit(s).
- MUS 131-432 - Vocal Ensembles Credit Hour(s): 1
- MUS 143, 144 - Piano Class 1 Credit(s).
- MUS 153 - Voice Class 1 Credit(s).

Art Electives (Choose 6 Credit Hours from the Following List)

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 104 - Drawing Fundamentals 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).
- ART 215 - Photoshop 3 Credit(s).

Communication & Media Electives (Choose 3 Credit Hours from the Following List)

- COM 101 - Introduction to Mass Communication 3 Credit(s).
- COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).
- COM 271 - On-line Media 3 Credit(s).

English Electives (Choose 3 Credit Hours from the Following List)

- ENG 218 - Introduction to Creative Writing 3 Credit(s).
- ENG 365 - Shakespeare 3 Credit(s).
- ENG 428 - Contemporary Literature and Film 3 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Theatre Arts, Musical Theatre Emphasis, B.F.A.

The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing theatre arts serves "not self, but others." In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community
theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.F.A. is frequently, but not exclusively, chosen by those students wishing to pursue M.F.A. Degrees and professional performing careers. It stresses heavy course and performance work in the area of emphasis. Students pursuing this degree normally declare no later than five semesters before graduation. If graduation is sooner, they must gain the endorsement of the program coordinator. There are three emphasis areas: Acting/Directing, Musical Theatre, and Technical Theatre.

**Required Common Theatre Courses (21 Credit Hours)**

- THA 111 - Fundamentals of Acting 3 Credit(s).
- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 205 - Applied Summer Theatre I 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
- THA 498 - Senior Seminar 3 Credit(s).

**Musical Theatre Emphasis (36 Credit Hours)**

**Required Musical Theatre Courses (12 Credit Hours)**

- THA 233 - Introduction to Musical Theatre 3 Credit(s).
- THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).
- THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
- THA 333 - Musical Theatre II 3 Credit(s).

**Required Music Courses (19 Credit Hours)**

- MUS 102 - Music Fundamentals 3 Credit(s).
- MUS 131-432 - Vocal Ensembles Credit Hour(s): 3 (1 credit each)
- MUS 143, 144 - Piano Class 1 Credit(s).
- MUS 151, 152 to 451, 452 - Private Music Lessons 1 Credit(s).
- MUS 153 - Voice Class 1 Credit(s).
- MUS 154 - Voice Class 1 Credit(s).

**Required Dance Courses (5 Credit Hours)**

- DAN 105 - Fundamentals of Dance Styles 1 Credit(s).
- DAN 106 - Fundamentals of Dance Styles 1 Credit(s).
- DAN 110 - Beginning Dance for Performance 1 Credit(s).
- DAN 111 - Beginning Dance for Performance II 1 Credit(s).
- DAN 121 - Rhythm with the Feet 1 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Theatre Arts, Technical Theatre Emphasis, B.F.A.

The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing theatre arts serves “not self, but others.” In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.F.A. is frequently, but not exclusively, chosen by those students wishing to pursue M.F.A. Degrees and professional performing careers. It stresses heavy course and performance work in the area of emphasis. Students pursuing this degree normally declare no later than five semesters before graduation. If graduation is sooner, they must gain the endorsement of the program coordinator. There are three emphasis areas: Acting/Directing, Musical Theatre, and Technical Theatre.

Required Common Theatre Courses (21 Credit Hours)

- THA 111 - Fundamentals of Acting I 3 Credit(s).
- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 205 - Applied Summer Theatre I 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
- THA 498 - Senior Seminar 3 Credit(s).

Technical Theatre Emphasis (36 Credit Hours)

Required Technical Theatre Courses (15 Credit Hours)

- THA 202 - Stage Craft 3 Credit(s).
- THA 246 - Play Production I: Beginning Directing 3 Credit(s).
- THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).

- THA 305 - Applied Summer Theatre II 3 Credit(s).

OR

- THA 405 - Applied Summer Theatre III 3 Credit(s).

- THA 402 - Stagecraft II 3 Credit(s).

ART Electives (Choose 12 Credit Hours from the Following List)

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 104 - Drawing Fundamentals 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).
- ART 215 - Photoshop 3 Credit(s).
- ART 222 - Basic Computer Graphics 3 Credit(s).
- ART 228 - Introduction to Sculpture 3 Credit(s).
- ART 230 - The Painting Studio 3 Credit(s).

Communication & Media Electives (Choose 9 Credit Hours from the Following List)

- COM 101 - Introduction to Mass Communication 3 Credit(s).
- COM 223 - Basic Audio Recording 3 Credit(s).
- COM 235 - Fundamental of TV and Video Production 3 Credit(s).
- COM 323 - Stage Audio 3 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

**Minor**

**Accounting Minor**

**Required Courses**

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).

**Other Courses**

- Any 300-400 level ACC courses Credit Hour(s): 12
Total Credit Hours Required: 18

Agriculture Minor

(Not open to Agricultural Science majors)

Required Courses

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).

- ASI 201 - Introduction to Animal Science 4 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).

One of the Following

- CRP 301 - Principles of Field and Forage Crop Production 4 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).

Other Agricultural Science Courses

- AGS, AGY, ASI, or HOR at the 300-400 level Credit Hour(s): 5

Total Credit Hours Required: 20

Applied Mathematics Minor

Required Courses

- MTH 203 - Concepts in Calculus 3 Credit(s).
  OR
- MTH 211 - Calculus I 3 Credit(s).

- MTH 208 - Introductory Statistics 3 Credit(s).
- Additional Mathematics (at least 3 hours at 300-400 level) Credit Hour(s): 6
- Applied classes (at least 3 hours at 300-400 level) Credit Hour(s): 6

Additional Courses

- Mathematics or Applied Course (300-400 level) Credit Hour(s): 3

Applied Courses
List of Applied Courses (applied courses require that half of the class's assignments and tests be quantitative. If the class is 300 or 400 level, it should include calculus, statistics, linear algebra or discrete mathematics as part of the quantitative assignments.)

- ACC 301 - Managerial Accounting 3 Credit(s).
- ACC 401 - Advanced Studies in Cost Accounting 3 Credit(s).
- ACC 403 - Auditing 3 Credit(s).
- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
- CSC 312 - Computer Organization 3 Credit(s).
- CSC 320 - Programming Using C++ 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 313 - Money and Banking 3 Credit(s).
- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- ESC 202 - Quantitative Methods and Statistics 4 Credit(s).
- ESC 421 - Pollution Science 4 Credit(s).
- HON 205 - Decision-Making and Problem Solving with Mathematics 3 Credit(s).
- PHI 101 - Logic 3 Credit(s).
- PHY 203 - Fundamentals of Physics 4 Credit(s).
- PHY 204 - Fundamentals of Physics 4 Credit(s).
- PSC 300 - Research Methods 3 Credit(s).
- PSY 306 - Intro to Research Methods and Statistics 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).

Total Credit Hours Required: 21

Art-Graphic Design Minor

(Not open to Art majors)

Required Foundation Courses

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).

Required Introduction to Media Courses

- ART 222 - Basic Computer Graphics 3 Credit(s).

Required Art History and Theory Courses
• ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

Required Studio Practice Courses

• ART 215 - Photoshop 3 Credit(s).
• ART 322 - Graphic Print Media 3 Credit(s).
• ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).

Total Credit Hours Required (at Least 9 at the 300-400 Level): 21

Art-Studio Arts Minor

Required Foundation Courses

Select 6 credit hours from the following:

• ART 101 - Two-Dimensional Design 3 Credit(s).
• ART 102 - Three-Dimensional Design 3 Credit(s).
• ART 104 - Drawing Fundamentals 3 Credit(s).

Required Introduction to Media Courses

Select 6 credit hours from the following:

• ART 204 - Intermediate Drawing 3 Credit(s).
• ART 206 - Introduction to Ceramics 3 Credit(s).
• ART 215 - Photoshop 3 Credit(s).
• ART 217 - Introduction to Photography 3 Credit(s).
• ART 220 - Introduction to Museum Studies 3 Credit(s).
• ART 222 - Basic Computer Graphics 3 Credit(s).
• ART 228 - Introduction to Sculpture 3 Credit(s).
• ART 230 - The Painting Studio 3 Credit(s).
• ART 232 - Web Design X 3 Credit(s).
• ART 324 - Art for Educators 3 Credit(s).

Required Art History and Theory Courses (3 Credit Hours)

• ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

Required Studio Practice Courses

Select 6 credit hours from the following:

• ART 304 - Advanced Drawing 3 Credit(s).
- ART 306 - Intermediate Ceramics 3 Credit(s).
- ART 317 - Intermediate Photography 3 Credit(s).
- ART 328 - Intermediate Sculpture 3 Credit(s).
- ART 330 - Intermediate Painting 3 Credit(s).
- ART 322 - Graphic Print Media 3 Credit(s).
- ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).
- ART 411 - Figure and Anatomy 3 Credit(s).

Total Credit Hours Required (at Least 9 at the 300-400 Level): 21

**Biology Minor**

**Required Courses**

- BIO 201 - Vertebrate Zoology 4 Credit(s).
  OR
- BIO 301 - Invertebrate Zoology 4 Credit(s).
  OR
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
  OR
- BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).
- Other Biology courses (at least 7 hours from 300-400 level) Credit Hour(s): 12

Total Credit Hours Required: 20

**Business Minor**

**Required Courses**

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).

**Choose 12 Credit Hours from the Following**

- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- Upper division 300-400 level Business courses Credit Hour(s): 6-12

Total Credit Hours Required: 18
Chemistry Minor

Required Courses

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
  OR
- CHM 301 - Organic Chemistry I 4 Credit(s).
  OR
- CHM 341 - Physical Chemistry I 3 Credit(s).
- 9 additional hours of Chemistry, (at least 7 must be at the 300-400 level) Credit Hour(s): 9

Total Credit Hours Required: 20-21

Coaching Minor

Required Courses

- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- HHP 206 - Introduction to Athletic Injuries 3 Credit(s).
- HHP 330 - Coaching the Athlete 3 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 402 - Organization and Administration of Sport 3 Credit(s).

Total Credit Hours Required: 20

Computer Science Minor

Required Courses

- CSC 320 - Programming Using C++ 3 Credit(s).
- CSC 321 - Data Structures 3 Credit(s).
- Other Computer Science courses (200 level or above, at least 9 at 300-400 level) Credit Hour(s): 12

Total Credit Hours Required: 19
Computer Technology Minor

NOTE: The Computer Technology minor may not be declared by CSC majors.

Choose from the Following (at Least 9 Hours at the 300-400 Level)

- Any CSC course (Excluding CSC 499 - Internship) **Credit Hour(s): 3-4**
- ACC 408 - Accounting Software Applications **3 Credit(s).**
- ART 201 - Computer Art and Graphics I **Credit Hour(s): 3**
- BUS 318 - Introduction to Electronic Commerce **3 Credit(s).**
- BUS 325 - Advanced Computer Applications **3 Credit(s).**
- BUS 430 - Management Information Systems **3 Credit(s).**
- CSC 100 - Computer Literacy **3 Credit(s).**
- OR
- BUS 230 - Computer Applications **3 Credit(s).** (cannot count both BUS 230 and CSC 100)

Total Credit Hours Required: 18

Criminal Justice Minor

Required Courses

- CJU 201 - Introduction to Criminal Justice **3 Credit(s).**
- CJU 204 - Fundamentals of Corrections **3 Credit(s).**
- CJU 220 - Criminal Law **3 Credit(s).**
- CJU 320 - Deviance and Social Control **3 Credit(s).**
- OR
- SOC 320 - Deviance and Social Control **3 Credit(s).**
- Any CJU courses not listed above, at least two courses (6 hours) at 300-400 level **Credit Hour(s): 6**

Total Credit Hours Required: 18

Cybersecurity Minor

Required Courses

- CSC 102 - Hardware Maintenance and Troubleshooting **3 Credit(s).**
- CSC 145 - Social Networking Best Practices **3 Credit(s).**
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 345 - Advanced Networking Configuration and Management 3 Credit(s).
- CSC 350 - Operating Systems 3 Credit(s).
- CSC 435 - Fundamentals of Cybersecurity 3 Credit(s).
- CSC 445 - Digital Forensics and Cybercrime 3 Credit(s).

Total Credit Hours Required: 21

**Economics Minor**

**Required Courses**

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- Any 300-400 level courses in Economics Credit Hour(s): 12

Total Credit Hours Required: 18

**Ecotourism Minor**

One of the fastest growing and most significant trends of today's tourism industry, Ecotourism is defined as sustainable tourism responsible to natural and scenic areas that encourages environmental and cultural conservation while promoting local economic development. A minor in Ecotourism will equip Ferrum College students to be industry leaders in a rapidly expanding field.

**Required Courses (18 Credit Hours)**

- ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
- ECT 265 - Foundations of Ecotourism 3 Credit(s).
- ECT 257 - Interpreting Culture and Nature 3 Credit(s).
- ECT 357 - Applied Interpretation 3 Credit(s).
- ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
- ESC 302 - Conservation Biology 3 Credit(s).
- REC 410 - Recreation Administration 3 Credit(s). *

**Electives**

*Recreation Leadership majors: REC 410 is included in the Recreation Major. Please select a 3 credit substitute courses from the electives list below.

- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 217 - Introduction to Photography 3 Credit(s).
• ART 220 - Introduction to Museum Studies 3 Credit(s).
  OR
• HIS 220 - Introduction to Museum Studies 3 Credit(s).

• BIO 311 - Field Botany 4 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
• ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
• ENG 211 - Literature and the Environment 3 Credit(s).
• EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
• EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).

• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
  OR
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

• ESC 205 - Tropical and Marine Ecology 4 Credit(s). (E-Term)
• ESC 206 - Community Ecology of the Southeast 4 Credit(s). (E-Term)
• ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s). (E-Term)
• GEO 220 - Physical Geography 4 Credit(s).
• GEO 221 - Geographic Information Systems 4 Credit(s).
• REC 325 - Wilderness Leadership I 3 Credit(s). (non-Outdoor Emphasis only)
• REC 343 - Facilitation of Adventure Pursuits 3 Credit(s). (non-Outdoor Emphasis only)
• REC 372 - Eco-Adventure 3 Credit(s). (E-Term)
• REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s).
• SCI 123 - Global Ecology and Climate Change 2 Credit(s).
• SCI 126 - Natural Resource Conservation 2 Credit(s).
• Any Foreign Language course Credit Hour(s): 3

Total Credit Hours Required: 21

English Minor

Required Course

• ENG 398 - Junior Seminar 1 Credit(s).

Required ENG Electives (18 Credit Hours)

ENG beyond ENG 101 and 102; 6 credits of which much be at the 300-400 level and no more than 3 credits of which may be in Journalism Practicum or Creative Arts Practicum. Students are encouraged to take ENG 498, but it is not required.
Total Credit Hours Required: 19

Students should not follow this minor if they plan to go into the Teacher Education Program. Those students should see the English endorsement area under the English major.

Environmental Science Minor

Required Courses

- ESC 102 - Introduction to Environmental Science 4 Credit(s).
- ESC 203 - Fundamentals of Ecology 4 Credit(s).
- Other Environmental Science courses (at least 7 hours from 300-400 level) Credit Hour(s): 13

Total Credit Hours Required: 21

Forensic Science Minor

Required Courses

- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 331 - Forensic Science 4 Credit(s).
- CJU 335 - Introduction to Forensic Investigations 3 Credit(s).

Prerequisite Liberal Arts Requirements

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
- OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Total Credit Hours Required: 19

History Minor

Required Course
• HIS 398 - Historiography 3 Credit(s).

Choose 6 Credit Hours from the Following

• HIS 101 - Western Civilization I 3 Credit(s).
• HIS 102 - Western Civilization II 3 Credit(s).
• HIS 201 - American History I 3 Credit(s).
• HIS 202 - American History II 3 Credit(s).

Total Credit Hours Required: 18

Horticulture Minor

Required Courses

• BIO 202 - Introduction to Plant Science 4 Credit(s).
• HOR 410 - Greenhouse Management 4 Credit(s).
• Other Horticulture courses (at least 5 hours from 300-400 level) Credit Hour(s): 12

Total Credit Hours Required: 20

International Studies Minor

Required Courses

• PSC 203 - International Politics 3 Credit(s).
• PSC 205 - Comparative Government 3 Credit(s).
• Other courses from International Studies course listing at 300-400 level Credit Hour(s): 15

Total Credit Hours Required: 21

Journalism Minor

The journalism program is designed for students interested in pursuing professional careers and further study in reporting, editing, public relations, and media law. The journalism minor requires a three-hour internship or approved alternative. **

Required Courses

• COM 101 - Introduction to Mass Communication 3 Credit(s).
- ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s). (one hour each, students choose three courses)
  OR
- COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s). (one hour each, students choose three courses)

- ENG 310 - Media Law and Ethics 3 Credit(s).
- ENG 311 - News Writing and Editing 3 Credit(s).
- ENG 499 - Internship 3, 4, 5 or 6 Credit(s).

Choose 3 Credit Hours from the Following

- COM 271 - On-line Media 3 Credit(s).
- COM 433 - Media Scriptwriting 3 Credit(s).
- ENG 312 - Feature Writing and Production 3 Credit(s).
- ENG 315 - Media Management 3 Credit(s).
- ENG 338 - Rhetoric 3 Credit(s).
- ENG 398 - Junior Seminar 1 Credit(s). AND
- ENG 498 - Senior Seminar 2 Credit(s).
- ENG 461 - Professional Writing 3 Credit(s).
- PSC 308 - Media and Politics 3 Credit(s).
- PSC 491 - Topics in Political Science 3 Credit(s). (when offered as Media and Politics)

Total Credit Hours Required: 18

**Journalism minors may not major in English due to the College’s guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

Mathematics Minor

Required Courses

- MTH 211 - Calculus I 3 Credit(s).
- Additional Mathematics (200-level or above, at least 9 at 300-400 level, not to include MTH 320) Credit Hour(s): 15

Total Credit Hours Required: 18

Algebra I Add-on Endorsement for Teacher Licensure
Students who are seeking an add-on endorsement in Mathematics (Algebra I), must complete the courses listed below. Add-on endorsements must be combined with an initial licensure program in another content area. (See the Teacher Education Minor.)

Courses Required for an Add-on Endorsement

*Students who come to Ferrum College with a strong background in Algebra and Trigonometry may choose to take MTH 211 and MTH 221 without taking MTH 111 and MTH 112. Students who complete this add on endorsement must have at least 24 credit hours of related coursework. To receive a minor in Mathematics students must have 18 credit hours of Mathematics at the 200 level or above.

- MTH 208 - Introductory Statistics 3 Credit(s).
- MTH 211 - Calculus I 3 Credit(s).
- MTH 221 - Calculus II 3 Credit(s).
- MTH 234 - Mathematical Reasoning 3 Credit(s).
- MTH 243 - Discrete Mathematics 3 Credit(s).
- MTH 246 - Linear Algebra I 3 Credit(s).
- MTH 324 - Elements of Geometry and Number Theory 3 Credit(s).
- CSC 320 - Programming Using C++ 3 Credit(s).
  OR
- CSC 225

Total Credit Hours Required: 24-25

Media and Communication Minor

The Media and Communication minor is for students who are interested in pursuing careers and further education in such areas as radio and television broadcasting, multi-media journalism, public relations, corporate communications, audio reproduction, film making, audio, and online media creation. This program has been designed to help students assimilate the knowledge, skills, and production ethics that will enable them to create high quality media-borne messages, and thereby advance their chosen career.

Required Courses

- COM 101 - Introduction to Mass Communication 3 Credit(s).
- COM 304 - Communication Research 3 Credit(s).
- COM 369 - Mass Media and Behavior 3 Credit(s).

Choose 9 Credit Hours from the Following (at Least 3 Credit Hours Must be 300-400 Level)

- ANA 271 - Business Statistics with Statistical Software 3 Credit(s).
- ART 215 - Photoshop 3 Credit(s).
- ART 217 - Introduction to Photography 3 Credit(s).
- ART 222 - Basic Computer Graphics 3 Credit(s).
• ART 232 - Web Design X 3 Credit(s).
• ART 317 - Intermediate Photography 3 Credit(s).
• ART 322 - Graphic Print Media 3 Credit(s).
• ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).
• ART 417 - Advanced Photography 3 Credit(s).
• BUS 230 - Computer Applications 3 Credit(s).
• BUS 304 - Advertising 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).
• COM 190, 290, 390 or 490 - Special Topics in Media and Communication 3 Credit(s).
• COM 201 - Public Speaking 3 Credit(s).
• COM 211 - Radio Broadcasting Methods 3 Credit(s).
• COM 223 - Basic Audio Recording 3 Credit(s).
• COM 235 - Fundamental of TV and Video Production 3 Credit(s).
• COM 236, 237 to 436, 437 - Video Production Practicum 1 Credit(s).
• COM 271 - On-line Media 3 Credit(s).
• COM 323 - Stage Audio 3 Credit(s).
• COM 335 - Advanced Video Production 3 Credit(s).
• COM 359 - Documentary Photography 3 Credit(s).
• COM 433 - Media Scriptwriting 3 Credit(s).
• CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s).
• CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
• CSC 230 - Web Design 3 Credit(s).
• ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).
• ENG 141, 142 to 441, 442 - Creative Arts Practicum 1 Credit(s).
• ENG 221 - Introduction to Film 3 Credit(s).
• ENG 310 - Media Law and Ethics 3 Credit(s).
• ENG 311 - News Writing and Editing 3 Credit(s).
• ENG 312 - Feature Writing and Production 3 Credit(s).
• ENG 315 - Media Management 3 Credit(s).
• ENG 338 - Rhetoric 3 Credit(s).
• ENG 433 - Small Group Communication 3 Credit(s).
• ENG 461 - Professional Writing 3 Credit(s).
• HON 213 - Media and Violence 3 Credit(s).
• PSC 308 - Media and Politics 3 Credit(s).
• REL 216 - Religion in Film 3 Credit(s).
• THA 203 - Video Production Workshop 3 Credit(s).
• THA 222 - Voice and Diction 3 Credit(s).

Total Credit Hours Required: 18

Music Minor
Required Courses (6 Credit Hours)

- MUS 105 - Music Theory I 2 Credit(s).
- MUS 106 - Aural Skills Lab I 1 Credit(s).
- MUS 107 - Music Theory II 2 Credit(s).
- MUS 108 - Aural Skills Lab II 1 Credit(s).

Minor Electives (Choose 6 Credit Hours)

Select 6 credit hours. One course must include either MUS 358 or MUS 359.

- MBU 201 - Music Business I 3 Credit(s).
- MUS 310 - Introduction to Conducting 1 Credit(s).
- MUS 358 - Music: Baroque and Classic Periods 3 Credit(s). *
- MUS 359 - Music: Romantic and Modern Periods 3 Credit(s). *
- MUS 426 - Music for Children 3 Credit(s).
- MUS 428 - Foundations in Music Education 2 Credit(s).
- MUS 480 - Music Seminar: Advanced Topics in Performance 3 Credit(s).

Performance Courses (Choose 4 Credit Hours)

Choose 4 credit hours from the following:

- MUS 111, 112 to 411, 412 - Concert Choir 1 Credit(s).
- MUS 117, 118 to 417, 418 - Collegiates 1 Credit(s).
- MUS 119, 120 to 419, 420 - Band 1 Credit(s).
- MUS 121, 122 to 421, 422 - Handbell Ensemble 1 Credit(s).
- MUS 123, 124 to 423, 424 - Jazz Combo 1 Credit(s).

Lesson Courses (Choose 2 Credit Hours)

Choose 2 credit hours from the following:

- MUS 143, 144 - Piano Class 1 Credit(s).
- MUS 153 - Voice Class 1 Credit(s). (a must for Musical Theatre minor)
- MUS 154 - Voice Class 1 Credit(s). (a must for Musical Theatre minor)
- MUS 151, 152 to 451, 452 - Private Music Lessons 1 Credit(s).
- MUS 161, 162 to 461, 462 - Applied Music Lessons 2 Credit(s).

Total Credit Hours Required (at least 9 at 300-400 level): 18

One Health Minor
A minor in One Health will expand a student's understanding of human, animal and environmental health and emphasize the interdependence of topics in these areas. Students will increase their skills in quantitative data collection and analysis, as well as analyze the impacts of health issues on societies at all levels: local, national and global. A student majoring in any of the sciences would benefit from the interdisciplinary focus of this rapidly emerging discipline.

**Required Courses (11 Credit Hours)**

- PPH 110 - Introduction to One Health 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).

- NSM 398 - Junior Seminar 3 Credit(s). OR
- NSM 498 - Senior Seminar 3 Credit(s).
  Paper topic must have a One Health emphasis and be approved by the Program Coordinator.

**One Health Elective Courses (7 Credit Hours)**

At least one course must be chosen from outside the student's major field of study.

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- BIO 315 - Animal Behavior 3 Credit(s).
- BIO 320 - Human Nutrition 3 Credit(s).
- BIO 410 - Immunology 3 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).
- CHM 420 - Medicinal Chemistry 3 Credit(s).
- CRP 301 - Principles of Field and Forage Crop Production 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- ESC 421 - Pollution Science 4 Credit(s).
- ESC 424 - Environmental Toxicology 3 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Total Credit Hours Required in Minor: 18

**Outdoor Recreation Minor**

Use of the natural environment is an integral part of the curriculum and is supported by the Ferrum College Outdoors program. By providing opportunities for the student body to participate in adventure pursuits, Ferrum College Outdoors affords the Outdoor Recreation minor the opportunity to develop, implement and evaluate programs while gaining
valuable technical and leadership skills. NOTE: Outdoor Recreation minor cannot be taken in conjunction with the Recreation Leadership major. Please select Outdoor Recreation Specialist emphasis area within the major.

**Required Courses**

- REC 260 - Foundations of Recreation and Leisure
  3 Credit(s).
- REC 325 - Wilderness Leadership
  3 Credit(s).
- REC 343 - Facilitation of Adventure Pursuits
  3 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration
  3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy
  3 Credit(s).
- REC 361 - Outdoor Education
  3 Credit(s).

Select 3 Credit Hours from the Following

- REC 103 - Backpacking and Hiking
  1 Credit(s).
- REC 104 - Rock Climbing and Rappelling
  1 Credit(s).
- REC 106 - Outdoor Water Sports
  1 Credit(s).
- REC 107 - Introduction to Fly Fishing
  1 Credit(s).
- REC 108 - Trail Design and Construction
  1 Credit(s).
- REC 139 - Orienteering
  1 Credit(s).

**Total Credit Hours Required:** 21

**Philosophy Minor**

**Required Courses**

- PHI 101 - Logic
  3 Credit(s).

  OR

- PHI 211 - Ethics
  3 Credit(s).

- PHI 221 - Survey of Ancient and Medieval Philosophy
  3 Credit(s).
- PHI 222 - Survey of Modern Philosophy
  3 Credit(s).
- An additional 9 hours of Philosophy at the 300-400 level
  Credit Hour(s): 9

**Total Credit Hours Required:** 18

**Physics Minor**

**Required Courses**
• PHY 203 - Fundamentals of Physics 4 Credit(s).
• PHY 204 - Fundamentals of Physics 4 Credit(s).

Choose 10 Credit Hours from the Following

(PHY 190, 290, 390 or 490 are Special Topics courses which may be taken repeatedly in different areas of study. Contact a member of the physics faculty to discuss possibilities.)

• CHM 341 - Physical Chemistry I 3 Credit(s).
• CHM 342 - Physical Chemistry II 3 Credit(s).
Choose Upper-Level Course(s) from sequence:
• PHY 190, 290, 390 or 490 - Special Topics 1-4 Credit(s).

Total Credit Hours Required: 18-20

Political Science Minor

Required Courses

• PSC 101 - American National Government and Politics 3 Credit(s).
• PSC 203 - International Politics 3 Credit(s).
  OR
• PSC 205 - Comparative Government 3 Credit(s).
• PSC 303 - Political Theory from Socrates to Locke 3 Credit(s).
  OR
• PSC 304 - Modern Ideologies 3 Credit(s).
• PSC 399 - Citizenship and Service Learning 3 Credit(s).
• Any Other Political Science courses except PSC 499 - Internship (at the 300-400 level) Credit Hour(s): 6

Total Credit Hours Required: 18

Psychology Minor

Required Courses

• PSY 201 - General Psychology 3 Credit(s).
  • Additional from Psychology Major Course Listing (at least 9 at 300-400 level) Credit Hour(s): 15

Total Credit Hours Required: 18
Public History and Museum Studies

The minor in Public History and Museum Studies trains students to critically evaluate the public presentation of history and culture. It helps students develop skills that will allow them to go on to graduate study in a variety of fields as well as professional or a vocational work at cultural or historical sites. Coursework in a wide range of academic disciplines and hands-on experience enable an understanding of the pedagogical approaches used to examine memory and history and provide practical training in historic preservation, community documentation, museum work, and cultural program development.

Prerequisite Liberal Arts Core Courses (6 Credit Hours)

Complete the following prerequisite courses:
- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).

Required Courses (9 Credit Hours)

- BUS 151 - Introduction to U.S. and Global Business 3 Credit(s).
- HIS 316 - Virginia History 3 Credit(s).
- HIS 220 - Introduction to Museum Studies 3 Credit(s).
  OR
- ART 220 - Introduction to Museum Studies 3 Credit(s).

Internship at 300-400 Level (3 Credit Hours)

Internship at 300-400-level approved by History Program Coordinator. Three Credits.

Choose 2 Elective Courses (6-8 Credit Hours)

Choose 2 courses from the following list of electives:
- AGS 218 - Regional Experiences in Agriculture 4 Credit(s).
- AGS 228 - Introduction to Equine Assisted Activities & Therapies (EAAT) 4 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- ASI 325 - Stable Management 3 Credit(s).
- ECT 257 - Interpreting Culture and Nature 3 Credit(s).
- ECT 357 - Applied Interpretation 3 Credit(s).
- ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
- ENG 222 - Introduction to Popular Culture 3 Credit(s).
- EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).
- HIS 318 - The American West in History and Memory 3 Credit(s).
- HIS 383 - Caribbean Environmental History 3 Credit(s).
- HON 213 - Media and Violence 3 Credit(s).
- HON 215 - Science and Art 4 Credit(s).
- HON 216 - The Sixties 3 Credit(s).
- HOR 411 - Landscape Design and Management 4 Credit(s).
- HUM 200 - The Holocaust: Past, Present, and Future 3 Credit(s).
- HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
- HUM 302 - African-American Studies: Forty Years and a Dream 3 Credit(s).
- PSC 399 - Citizenship and Service Learning 3 Credit(s).
- REC 319 - Recreation Delivery Systems 3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
- SSC 301 - Social Entrepreneurial Leadership 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 204 - Sociology of Sport 3 Credit(s).
- SOC 303 - Cultural Diversity Applications in Schools and Society 3 Credit(s).
- SOC 340 - Collective Behavior and Social Movements 3 Credit(s).

**Recreation Leadership Minor**

**Required Courses**

- REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
- REC 341 - Program Planning and Leadership 3 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
- REC 410 - Recreation Administration 3 Credit(s).
- Select 6 credits from within Recreation Leadership Major, Outdoor Recreation Minor or Ecotourism Minor Credit Hour(s): 6

**Total Credit Hours Required: 19**

**Religion Minor**

**Required Courses**

*Students who take REL 111 will not receive credit for REL 112 or REL 113.*

- REL 111 - Literature of the Bible 3 Credit(s). *
  OR
- REL 112 - Literature of the Old Testament 3 Credit(s).
  OR
- REL 113 - Literature of the New Testament 3 Credit(s).

- Other Religion courses including HON 206 or HON 225 (at least 6 hours from 300-400 level) Credit Hour(s): 15

**Total Credit Hours Required: 18**
Social Entrepreneurship Minor

Required Courses

*Note: ACC 201 and ACC 202 may be substituted for ACC 110.

- ACC 110 - Introduction to Accounting 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- SOC 202 - Social Problems 3 Credit(s).
- SSC 301 - Social Entrepreneurial Leadership 3 Credit(s).

Required Experiential Learning (1 to 3 Credit Hours)

**Note: If Internship course or BUS 190, 290 or 390 is selected, it must involve an entity that addresses social needs.

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s). (VITA)
- ACC 499 - Accounting Internship 3 Credit(s). **
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s). **
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 499 - Internship 3 Credit(s). **

Select Two of the Following Courses (6 Credit Hours)

- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
- ECO 430 - Development Economics 3 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).
- SOC 310 - Social Class and Inequality 3 Credit(s).
- SOC 330 - Organizations and Behavior 3 Credit(s).

Total Credit Hours Required: 19-24

Social Work Minor

Required Courses

- SWK 201 - Introduction to Social Work 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
  OR
- PSC 101 - American National Government and Politics 3 Credit(s).
  OR
- PSC 202 - State and Local Government 3 Credit(s).
• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
• SWK 320 - Social Welfare Policy: History, Philosophy, and Current Policies 3 Credit(s).
• SWK 330 - Human Behavior and the Social Environment 3 Credit(s).

3 Credit Hours from the Following

• SWK 350 - Substance Abuse: Interventive Techniques 3 Credit(s).
• SWK 355 - Child Welfare Systems and Services 3 Credit(s).
• SWK 329 - Foundations of Adventure Based Counseling 3 Credit(s).

Total Credit Hours Required: 18

Sociology Minor

Required Courses

• SOC 101 - General Sociology 3 Credit(s).
• SOC 202 - Social Problems 3 Credit(s).

12 Credit Hours (at Least 9 at the 300 Level or Above) from the Following

• HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s). (only if taken as SOC credit)
• PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality 3 Credit(s).
• PSC 366 - Political Evil 3 Credit(s).
• PSY 230 - Social Psychology 3 Credit(s).
• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
• SOC 204 - Sociology of Sport 3 Credit(s).
• SOC 205 - Marriage and the Family 3 Credit(s).
• SOC 207 - Sociology of Sex and Gender Roles 3 Credit(s).
• SOC 301 - Classical Social Theory 3 Credit(s).
• SOC 303 - Cultural Diversity Applications in Schools and Society 3 Credit(s).
• SOC 310 - Social Class and Inequality 3 Credit(s).
• SOC 320 - Deviance and Social Control 3 Credit(s).
• SOC 330 - Organizations and Behavior 3 Credit(s).
• SOC 333 - Population Dynamics 3 Credit(s).
• SOC 340 - Collective Behavior and Social Movements 3 Credit(s).
• SOC 370 - Introduction to Field Based Case Study Research 3 Credit(s).
• SOC 391 - Directed Study in Sociology 1-3 Credit(s).
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
• SOC 401 - Survey of Modern Era Social Theory 3 Credit(s).
• SOC 450 - Changing Roles in the Life Course 3 Credit(s).
• SOC 470 - Social Sciences Research 3 Credit(s).
Total Credit Hours Required: 18

Spanish Minor

12 Credit Hours from the Following

- SPA 301 - Advanced Grammar and Composition 3 Credit(s).
- SPA 302 - Advanced Speaking and Comprehension 3 Credit(s).
- SPA 320 - Introduction to Literature in Spanish 3 Credit(s).
- SPA 325 - Spanish Civilization & Culture 3 Credit(s).
- SPA 326 - Latin American Civilization & Culture 3 Credit(s).
- SPA 351 - Spanish Conversation Circle I 1 Credit(s).
- SPA 352 - Spanish Conversation Circle II 1 Credit(s).
- SPA 353 - Spanish Conversation Circle III 1 Credit(s).
- SPA 354 - Spanish Conversation Circle IV 1 Credit(s).
- SPA 403 - Special Topics in Hispanic Culture 3 Credit(s). (Taught in Spanish)
- SPA 404 - Selected Topics in Hispanic Literature 3 Credit(s). (Taught in Spanish)
- SPA 451 or 452 - Directed Study 3 Credit(s).

Total Credit Hours Required (Above 200 Level): 12

Teacher Education Minor

Any student wishing to prepare for careers teaching in PreK-12 setting may do so by selecting the minor in teacher education in conjunction with a major appropriate to the areas in which he/she wishes to teach. Students who complete the program successfully work with the Registrar to apply for licensure by completing the forms that can be obtained from the Office of the Registrar, paying a fee, and returning his/her application to the Office of the Registrar at Ferrum College.

Ferrum College's teacher preparation program is built upon the following premises that the teacher candidate will:

- gain expertise in creating, facilitating, and evaluating meaningful, developmentally appropriate learning exercises with students.
- construct a world view of teaching and learning through the acquisition of an historical, theoretical, and philosophical context for analysis and decision-making.
- display a commitment to professional standards, responsible behavior, and a collaborative stance towards peers. The commitment is reflected in the following:
  1. Actions based upon informed decisions predicated on research about effective teaching and actual field experiences.
  2. The utilization of a continuing self-assessment and professional development process.
  3. The tendency to access and incorporate a wide variety of resources into one's teaching.
- be receptive to the contention that:
  1. all students can be reached and all students can learn;
  2. global and multicultural agendas should be woven into the curriculum;
  3. student choice and empowerment are essential;
4. Students need to be involved and increasingly responsible for their own learning; and experience should be an essential part of learning.

**Admission to the Program:**

**Course Sequence**

The standards and course sequence are carefully crafted to provide program candidates a rich professional experience. It is highly recommended that students plan carefully in order to take advantage of the professional development plan designed to prepare program candidates for the profession of teaching. Coursework for the minor in the Teacher Education Program can begin in the freshman year with students taking the following prerequisite courses:

- PSY 201
- PSY 211 with PSY 291 LAB (All elementary and All-level candidates must enroll in PSY 291 the same semester as PSY 211; PSY 291 is not required for secondary candidates)

Students must demonstrate a commitment through the following requirements:

- Cumulative grade point average (GPA) MINIMUM – 2.5
- Students must successfully complete the following courses with a "C" or higher:
  - ENG 101 & ENG 102
  - MTH 105 (or higher)
  - PSY 201, PSY 211 & PSY 291 (if required) and the chosen lab science(s)

A plan for Teacher Education Program (EDU) candidate coursework follows:

**Recommended for second semester freshmen**

- SPD 220 (fall or spring) is required for all students

**Sophomore:**

- EDU 202 (fall or spring) – requires students take and pass the Virginia Communication and Language Assessment (VCLA).
- EDU 203 may be taken in the spring of the sophomore year and required students to take and pass specified Praxis Core Academic Skills for Educators (PCAS) components necessary to be considered a candidate in the Teacher Education Program.

***At this point, if a student has successfully completed 40 credit hours, EDU 202, EDU 203 and have all other program standard components (GPA requirements, testing requirements, grades in specific course requirement, etc.), he/she must complete a formal application to enter the Teacher Education Program minor. The application will be reviewed and an interview will be scheduled. Upon acceptance after the interview, a student will be formally entered into the Teacher Education Program minor. Only students who are FORMALLY accepted into the Teacher Education Program minor may continue in EDU courses as a candidate for licensure. ***STUDENTS MUST BE IN COMPLIANCE WITH ALL PREVIOUS PROGRAM REQUIREMENTS AND BE FORMALLY ACCEPTED INTO THE TEACHER EDUCATION PROGRAM TO CONTINUE. ***

**Junior:**
• EDU 310/EDU 311 (spring) for elementary—requires student take Virginia Reading Assessment—Reading for Virginia Educators (RVE) upon completion of this class and passed prior to enrolling in any additional EDU classes.
• EDU 312 (spring) for all-level and secondary candidates

Senior:

• EDU 352/EDU 353 (fall) for elementary – requires students take Praxis II (elementary)
• EDU 355/EDU 357 (fall) for secondary – requires students take Praxis II (content area)
• EDU 358/EDU 360 (fall) for all-level – requires students take Praxis II (content area, as required)

Upon completion of Senior classes, students must complete a formal application to register for EDU 404. Requirements for admission into EDU 404: 2.8 GPA in major; 3.0 GPA in Teacher Education Minor; 2.5 GPA overall; and passed all testing requirements.

Continuation in Program:

Program candidates MUST maintain a "C" or better in each of the Foundations courses specific to the Teacher Education Minor.

A student's continuation in the sequence of Teacher Education courses as member of the Teacher Education Program is contingent upon: (1) formal acceptance into the Teacher Education Program by application only; (2) the maintenance of an overall grade point average (GPA) of 2.5, a GPA of 2.8 in major discipline and a GPA of 3.0 in the Teacher Education minor classes; (3) taking and passing required program and state testing. Students must also demonstrate appropriate progress in their professional development as evidenced in their Performance Presentations at the end of each EDU class above and including EDU 203. In addition, program candidates must have appropriate evaluations in each of their field-based internships.

The Teacher Education Faculty reviews and evaluates each program candidate's progress at the end of each semester to determine continued eligibility based on the established criteria above, as well as any other reports submitted concerning ethical behaviors. A letter of compliance is sent to each student concerning their eligibility. Students who are not in compliance will be blocked from taking additional classes and removed from the Teacher Education Program.

Students who are not in compliance with ALL program components will NOT be allowed to student teach. Students may petition the Teacher Education Committee to appeal this decision, if and only if, the appeal does not include a request to overturn program requirements, such as testing and GPA issues. The appeal process includes: (1) a written request delivered within one week following the receipt of the letter regarding the decision related to registration for student teaching. It should state the reason(s) an exception should be made; (2) in person explanation to the Teacher Education Committee scheduled within three weeks after the receipt of the written petition of appeal; (3) a decision will be given in writing to the petitioner within one week following the in-person appeal.

Program candidates interested in Elementary Education (Pk-6):

• Major in Liberal Arts, minor in Teacher Education
• Successfully complete (C or better) in ENG 101 & ENG 102, MTH 105, BIO 105, PSY 201, PSY 211 & PSY 291, EDU 320 to satisfy the required Liberal Arts Requirements for the Liberal Arts Major

Program candidates interested in Secondary Education (6-12):

• Students must choose a content area as a MAJOR and minor in Teacher Education.
• Cumulative grade point average (GPA) MINIMUM – 2.5
Students must successfully complete the following courses with a "C" or higher:

- ENG 101 & ENG 102
- MTH 105 (or higher by formal request to the Director of Teacher Education)
- PSY 201 and PSY 211
- and the chosen lab science(s)

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<thead>
<tr>
<th>Major</th>
<th>Endorsement for Licensure</th>
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<tbody>
<tr>
<td>Agricultural Sciences</td>
<td>Agriculture Education</td>
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<tr>
<td>Art – Studio Arts</td>
<td>Art</td>
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<tr>
<td>Pre-Professional Science</td>
<td>Biology &amp; Chemistry*</td>
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<td>Biology</td>
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<td>Chemistry</td>
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<td>Journalism minor (add on)</td>
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<td>Theatre Arts</td>
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<tr>
<td>Mathematics</td>
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<td></td>
<td>Algebra I (add on)</td>
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<tr>
<td>Social Studies (History, Government, Economics, Psychology)</td>
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<td>Spanish</td>
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*Pre-Professional Science requires a dual endorsement licensure in Biology and Chemistry with the requirements listed below

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<tr>
<th>Biology</th>
<th>Chemistry</th>
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<tr>
<td>BIO 111, BIO 201, BIO 202, BIO 305, BIO 330</td>
<td>CHM 103, CHM 104</td>
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<td>BIO 254 or BIO 303 or ESC 203</td>
<td>CHM 301, CHM 302, CHM 341</td>
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<td>CHM 315 or CHM 412</td>
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<td>CHM 342 or CHM 305</td>
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Program candidates interested in Art, Theatre Arts, Physical Education/Health, or Spanish are considered ALL-LEVEL (PK-12). ALL-LEVEL Candidates must:

- successfully complete the following courses with a "C" or higher:
  - ENG 101 & ENG 102
  - MTH 105 (or higher by formal request to the Director of Teacher Education)
  - PSY 201, PSY 211 and PSY 291
  - and the chosen lab science(s)

- Successfully complete field placements for both elementary and secondary levels
- Successfully complete student teaching at both elementary and secondary levels

**Program Completion for Licensure**

Students completing all components of the Teacher Education Program become eligible for licensure in the Commonwealth of Virginia, as well as states with reciprocity agreements.

In order to apply for licensure, students must:

Complete the application for licensure available online at [http://www.doe.virginia.gov/teaching/licensure/](http://www.doe.virginia.gov/teaching/licensure/).

- Follow the clear instructions listed in Steps 1-8 on the "Procedures for Applying for an initial Virginia License for Teachers” and submit the entire application and all required documentation to the Ferrum College Registrar. There is a fee for licensure.**
- Provide official evidence to the Registrar demonstrating completion of the Child Abuse Recognition and Intervention training
- Provide official evidence to the Registrar demonstrating official passing scores on any required assessment such as: Praxis II, VCLA and RVE
- Earn a grade of "B" or higher in EDU 404 Student Teaching and Synthesis Experience.
- Provide the Registrar with written permission for release of the College transcript to be sent to the Virginia Department of Education. There is a fee for an official transcript.

**This non-refundable application fee made payable to the Treasurer of Virginia must accompany the application packet. The Registrar will submit the entire application packet to the Virginia Department of Education.

**Theatre Arts Minor**

(Students majoring in Theatre cannot minor in Theatre.)

The Theatre minor is concentrated in the study of acting, directing, theatre history and literature. Students work out a coherent program of courses with the theatre faculty. All minors require a minimum of 18 credits, 9 of which are at the 300-400 level.

**Required Courses**

- **THA 111 - Fundamentals of Acting | 3 Credit(s).**
- **THA 246 - Play Production I: Beginning Directing | 3 Credit(s).**
Choose 12 Credit Hours from Following Electives

- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 222 - Voice and Diction 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
- THA 336 - Creative Dramatics in School Church and Community 3 Credit(s).
- THA 346 - Readers Theatre 3 Credit(s).
- THA 412, 413 or 414 - Special Theatre Topics 1-3 Credit(s).
- THA 446 - Directing 3 Credit(s).

Total Credit Hours Required (at Least 9 at the 300-400 Level): 18

Programs by Degree

Bachelor of Arts

Art (Minor Required), Graphic Design Emphasis, B.A.

Art

The goal of the art program is to provide an excellent educational experience that develops technical skills, critical and aesthetic judgment, and a sound knowledge of the visual arts appropriate to students seeking a general appreciation of the arts as well as to aspiring fine arts professionals. The faculty engage students in the discipline of visual art as a major component in the liberal arts tradition including studio practice and art history. Students complete a common group of foundation and art history courses and then choose an emphasis area to develop a solid yet individualized program.

Experiential Component (Complete 1 of the Following Courses:)

- ART 497 - Senior Studio 3 Credit(s).
- ART 398 - Artist Practices 3 Credit(s).
- ART 498 - The Senior Exhibition 3 Credit(s).

Common Required Courses (24 Credit Hours)
Foundations (Choose 6 credit hours)

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 104 - Drawing Fundamentals 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).

Art History & Theory (9 Credit Hours)

- ART 320 - Ancient Through Medieval Art in History 3 Credit(s).
- ART 321 - Renaissance to Impressionist Art in History 3 Credit(s).
- ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

Advanced Study (9 Credit Hours)

- ART 398 - Artist Practices 3 Credit(s).
- ART 497 - Senior Studio 3 Credit(s).
- ART 498 - The Senior Exhibition 3 Credit(s).

Graphic Design Emphasis (15 Credit Hours)

Liberal Arts Requirements (3 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).

Program Specific Requirements (6 Credit Hours)

- BUS 304 - Advertising 3 Credit(s).
- COM 101 - Introduction to Mass Communication 3 Credit(s).

Introduction to Media (9 Credit Hours)

- ART 222 - Basic Computer Graphics 3 Credit(s).
- ART 215 - Photoshop 3 Credit(s).
- ART 232 - Web Design X 3 Credit(s).

Studio Practice (6 Credit Hours)

- ART 322 - Graphic Print Media 3 Credit(s).
- ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121
Art (Minor Required), Studio Arts Emphasis, B.A.

Art

The goal of the art program is to provide an excellent educational experience that develops technical skills, critical and aesthetic judgment, and a sound knowledge of the visual arts appropriate to students seeking a general appreciation of the arts as well as to aspiring fine arts professionals. The faculty engage students in the discipline of visual art as a major component in the liberal arts tradition including studio practice and art history. Students complete a common group of foundation and art history courses and then choose an emphasis area to develop a solid yet individualized program.

Experiential Component (Complete 1 of the Following Courses:)

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- ART 130 - The Color Course 3 Credit(s).

Art History & Theory (9 Credit Hours)

- ART 320 - Ancient Through Medieval Art in History 3 Credit(s).
- ART 321 - Renaissance to Impressionist Art in History 3 Credit(s).
- ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

Advanced Study (9 Credit Hours)

- ART 398 - Artist Practices 3 Credit(s).
- ART 497 - Senior Studio 3 Credit(s).
- ART 498 - The Senior Exhibition 3 Credit(s).

Studio Arts Emphasis (15 Credit Hours)

(This emphasis can be used for the Art Education Endorsement)

Students choosing the Studio Arts emphasis may not receive credit for an additional ART emphasis area without the approval of the Program Coordinator.
Introduction to Media (Choose 6 credit hours)

- ART 204 - Intermediate Drawing 3 Credit(s).
- ART 206 - Introduction to Ceramics 3 Credit(s).
- ART 217 - Introduction to Photography 3 Credit(s).
- ART 228 - Introduction to Sculpture 3 Credit(s).
- ART 230 - The Painting Studio 3 Credit(s).

Studio Practice (Choose 6 credit hours)

- ART 304 - Advanced Drawing 3 Credit(s).
- ART 306 - Intermediate Ceramics 3 Credit(s).
- ART 317 - Intermediate Photography 3 Credit(s).
- ART 328 - Intermediate Sculpture 3 Credit(s).
- ART 330 - Intermediate Painting 3 Credit(s).

Advanced Study (Choose 3 credit hours)

- ART 406 - Advanced Ceramics 3 Credit(s).
- ART 411 - Figure and Anatomy 3 Credit(s).
- ART 417 - Advanced Photography 3 Credit(s).
- ART 428 - Advanced Sculpture 3 Credit(s).
- ART 430 - Advanced Painting 3 Credit(s).
- ART 450 - Directed Study in Advanced Studio Problems 3 Credit(s).
- ART 499 - Internship 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

English (Minor Required), Creative and Professional Writing Emphasis, B.A.

English

The English program at Ferrum College has two primary purposes: to serve all students by helping them develop and refine their writing and research skills, then by helping them understand how to read and write about literature; and to develop majors who are thoughtful, perceptive, articulate, and open to a wide variety of literary traditions and complexities of language. In addition, English graduates should be able to write effectively in a variety of contexts and should be well prepared for a broad range of careers, but especially those working with texts and language. The program helps students to develop both critical thinking and oral communication skills by familiarizing students with literature from diverse cultures, nationalities, and historical periods and through study of the history, structure, functions, and variations of language. Finally, English graduates should be proficient in using both traditional and modern technologies in the study of literature and language. A major in English provides excellent preparation for
graduate school in many fields. English majors may not minor in journalism due to the College's guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

**Experiential Component**

The Experiential Component (requirement of the major) can be met by successfully completing the following:

All students majoring in English will be required to complete a relevant experiential component involving supervised work in one of the following areas (or some combination): internship, a college media organization (The Iron Blade, Chrysalis, or Ferrum Radio), volunteer service, student teaching, tutoring, collaboration in a faculty research project, or development of a paper for formal presentation. Students may substitute an alternative with the approval of the appropriate School Dean. If the student's work is not undertaken for credit in an existing course, the student should enroll in a one-credit English practicum under the supervision of a faculty member in the English Department.

**Liberal Arts Requirement (3 Credit Hours)**

- ENG 200 - Introduction to Literary Studies 3 Credit(s).

**Program Specific Requirements (12 Credit Hours)**

- Foreign Language through intermediate level Credit Hour(s): 12

**Required Common Courses (18 Credit Hours)**

- ENG 205 - American Literature I 3 Credit(s). OR
  
  ENG 345 - American Literature 1815-1865 3 Credit(s).

- ENG 206 - American Literature II 3 Credit(s). OR
  
  ENG 346 - American Literature 1865-1940 3 Credit(s).

- ENG 398 - Junior Seminar 1 Credit(s).
  
  ENG 498 - Senior Seminar 2 Credit(s).

Choose Any 3 Courses from list:

- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 203 - British Literature I 3 Credit(s).
- ENG 204 - British Literature II 3 Credit(s).
- ENG 361 - British Literature 1660-1798 3 Credit(s).
- ENG 362 - British Literature 1798-1890 3 Credit(s).

**Creative and Professional Writing Emphasis**

**Required Emphasis Courses (6 Credit Hours)**
• ENG 218 - Introduction to Creative Writing 3 Credit(s).
• ENG 461 - Professional Writing 3 Credit(s).

9 Credit Hours from the Following

• COM 433 - Media Scriptwriting 3 Credit(s).
• ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).
• ENG 141, 142 to 441, 442 - Creative Arts Practicum 1 Credit(s).
• ENG 310 - Media Law and Ethics 3 Credit(s).
• ENG 311 - News Writing and Editing 3 Credit(s).
• ENG 312 - Feature Writing and Production 3 Credit(s).
• ENG 319 - Advanced Prose Writing 3 Credit(s).
• ENG 320 - Advanced Poetry Writing 3 Credit(s).
• ENG 336 - Linguistics 3 Credit(s).
• ENG 338 - Rhetoric 3 Credit(s).
• ENG 433 - Small Group Communication 3 Credit(s).

6 credits of 300-400 level ENG electives

• Take 6 credits of 300-400 level ENG courses.

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

English (Minor Required), Literature Emphasis, B.A.

English

The English program at Ferrum College has two primary purposes: to serve all students by helping them develop and refine their writing and research skills, then by helping them understand how to read and write about literature; and to develop majors who are thoughtful, perceptive, articulate, and open to a wide variety of literary traditions and complexities of language. In addition, English graduates should be able to write effectively in a variety of contexts and should be well prepared for a broad range of careers, but especially those working with texts and language. The program helps students to develop both critical thinking and oral communication skills by familiarizing students with literature from diverse cultures, nationalities, and historical periods and through study of the history, structure, functions, and variations of language. Finally, English graduates should be proficient in using both traditional and modern technologies in the study of literature and language. A major in English provides excellent preparation for graduate school in many fields. English majors may not minor in journalism due to the College's guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

Experiential Component

The Experiential Component (requirement of the major) can be met by successfully completing the following:
All students majoring in English will be required to complete a relevant experiential component involving supervised work in one of the following areas (or some combination): internship, a college media organization (The Iron Blade, Chrysalis, or Ferrum Radio), volunteer service, student teaching, tutoring, collaboration in a faculty research project, or development of a paper for formal presentation. Students may substitute an alternative with the approval of the appropriate School Dean. If the student's work is not undertaken for credit in an existing course, the student should enroll in a one-credit English practicum under the supervision of a faculty member in the English Department.

Liberal Arts Requirement (3 Credit Hours)

- ENG 200 - Introduction to Literary Studies 3 Credit(s).

Program Specific Requirements (12 Credit Hours)

- Foreign Language through intermediate level Credit Hour(s): 12

Required Common Courses (18 Credit Hours)

- ENG 205 - American Literature I 3 Credit(s). OR
- ENG 345 - American Literature 1815-1865 3 Credit(s).

- ENG 206 - American Literature II 3 Credit(s). OR
- ENG 346 - American Literature 1865-1940 3 Credit(s).

- ENG 398 - Junior Seminar 1 Credit(s).
- ENG 498 - Senior Seminar 2 Credit(s).

Choose Any 3 Courses from list:

- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 203 - British Literature I 3 Credit(s).
- ENG 204 - British Literature II 3 Credit(s).
- ENG 361 - British Literature 1660-1798 3 Credit(s).
- ENG 362 - British Literature 1798-1890 3 Credit(s).

Literature Emphasis

Required Emphasis Courses

- ENG 401 - Literary Criticism 3 Credit(s).

18 Credit Hours Chosen from Any Other 300-400 Level English Courses

Pre-19th Century Literature (6 Credit Hours)

6 hours of pre-19th century literature. Choose from:
19th Century and Later Literature (6 Credit Hours)

6 hours 19th century and later literature. Choose from:

- ENG 325 - The Novel 3 Credit(s).
- ENG 345 - American Literature 1815-1865 3 Credit(s).
- ENG 346 - American Literature 1865-1940 3 Credit(s).
- ENG 350
- ENG 362 - British Literature 1798-1890 3 Credit(s).
- ENG 428 - Contemporary Literature and Film 3 Credit(s).

English Courses or Foreign Language Literature (6 Credit Hours)

Choose 6 hours from any other 300-400 level English courses or foreign language literature

Total Credit Hours Required in Major (Minor Required): 39

English (Minor Required), Teacher Certification Emphasis, B.A.

English

The English program at Ferrum College has two primary purposes: to serve all students by helping them develop and refine their writing and research skills, then by helping them understand how to read and write about literature; and to develop majors who are thoughtful, perceptive, articulate, and open to a wide variety of literary traditions and complexities of language. In addition, English graduates should be able to write effectively in a variety of contexts and should be well prepared for a broad range of careers, but especially those working with texts and language. The program helps students to develop both critical thinking and oral communication skills by familiarizing students with literature from diverse cultures, nationalities, and historical periods and through study of the history, structure, functions, and variations of language. Finally, English graduates should be proficient in using both traditional and modern technologies in the study of literature and language. A major in English provides excellent preparation for graduate school in many fields. English majors may not minor in journalism due to the College's guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

Experiential Component

The Experiential Component (requirement of the major) can be met by successfully completing the following:

All students majoring in English will be required to complete a relevant experiential component involving supervised work in one of the following areas (or some combination): internship, a college media organization (The Iron Blade, Chrysalis, or Ferrum Radio), volunteer service, student teaching, tutoring, collaboration in a faculty research project, or
development of a paper for formal presentation. Students may substitute an alternative with the approval of the appropriate School Dean. If the student's work is not undertaken for credit in an existing course, the student should enroll in a one-credit English practicum under the supervision of a faculty member in the English Department.

Liberal Arts Requirement (3 Credit Hours)

- ENG 200 - Introduction to Literary Studies 3 Credit(s).

Program Specific Requirements (12 Credit Hours)

- Foreign Language through intermediate level Credit Hour(s): 12

Required Common Courses (18 Credit Hours)

- ENG 205 - American Literature I 3 Credit(s). OR
- ENG 345 - American Literature 1815-1865 3 Credit(s).
- ENG 206 - American Literature II 3 Credit(s). OR
- ENG 346 - American Literature 1865-1940 3 Credit(s).
- ENG 398 - Junior Seminar 1 Credit(s).
- ENG 498 - Senior Seminar 2 Credit(s).

Choose Any 3 Courses from list:

- ENG 201 - World Literature I 3 Credit(s).
- ENG 202 - World Literature II 3 Credit(s).
- ENG 203 - British Literature I 3 Credit(s).
- ENG 204 - British Literature II 3 Credit(s).
- ENG 361 - British Literature 1660-1798 3 Credit(s).
- ENG 362 - British Literature 1798-1890 3 Credit(s).

Teacher Certification Emphasis

Ferrum College offers teaching licensure in English (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education Minor)

Students lacking proficiency in public speaking may be required to take COM 201 - Public Speaking.

English majors interested in certification to teach English at the secondary level must minor in education and include the following among their major courses:

- ENG 205 - American Literature I 3 Credit(s). OR
- ENG 345 - American Literature 1815-1865 3 Credit(s).
- ENG 206 - American Literature II 3 Credit(s). OR
• ENG 346 - American Literature 1865-1940 3 Credit(s).
• ENG 336 - Linguistics 3 Credit(s).
• ENG 338 - Rhetoric 3 Credit(s).
• ENG 365 - Shakespeare 3 Credit(s).
• ENG 401 - Literary Criticism 3 Credit(s).

Highly Recommended

• ENG 203 - British Literature I 3 Credit(s).
  OR
• ENG 361 - British Literature 1660-1798 3 Credit(s).

• ENG 204 - British Literature II 3 Credit(s).
  OR
• ENG 362 - British Literature 1798-1890 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Journalism Add-on Endorsement (Teacher Education Licensure)

• ART 215 - Photoshop 3 Credit(s).
  OR
• ART 217 - Introduction to Photography 3 Credit(s).

• COM 101 - Introduction to Mass Communication 3 Credit(s).

• Choose 2: ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).

• COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).

• ENG 311 - News Writing and Editing 3 Credit(s).

• ENG 312 - Feature Writing and Production 3 Credit(s).
  OR
• ART 201 - Basic Computer Graphics Credit Hour(s): 3
  OR
• COM 211 - Radio Broadcasting Methods 3 Credit(s).

Total Credit Hours Required in Endorsement: 15

Total Credit Hours Required in Degree: 121

Environmental Studies, B.A.
The Environmental Studies program prepares graduates for a fulfilling career and for graduate study in the broad field of environmental studies and sustainable development. ENS uses a multidisciplinary systems approach for teaching students to think critically and creatively within a liberal arts tradition. ENS students and graduates will be expected to communicate effectively; understand the need for transparent, data-driven decision-making; and understand the importance of including a diversity of perspectives for effective environmental planning and management. In order to tailor the program of study to specific career aspirations, students choose a set of professional electives that should be coherent and clearly reflect specific career goals

Experiential Component (Complete the Following Courses:)

- ESC 102 - Introduction to Environmental Science 4 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

- ENG 211 - Literature and the Environment 3 Credit(s).
- ESC 102 - Introduction to Environmental Science 4 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).

Program Specific Requirements (8 Credit Hours)

- GEO 220 - Physical Geography 4 Credit(s).
- GEO 221 - Geographic Information Systems 4 Credit(s).

Required Courses (39-40 Credit Hours)

- EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
- EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).
- EPD 410 - Advanced Environmental Planning and Development 3 Credit(s).
- ESC 103 - Applied Environmental Monitoring 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
- OR
- MTH 208 - Introductory Statistics 3 Credit(s).
- ESC 203 - Fundamentals of Ecology 4 Credit(s).
- ESC 310 - Natural Resource Policy and Economics 3 Credit(s).
- ESC 313 - Natural Resource Management 3 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s). AND
- NSM 498 - Senior Seminar 3 Credit(s).
- OR
- NSM 499 - Internship 3 Credit(s).
- PSC 402 - Policy Analysis 3 Credit(s).
- SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
- OR
Elective Courses (12 Credit Hours)

- CRP 315 - Soil Science and Management 4 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- ECO 430 - Development Economics 3 Credit(s).
- ESC 180, 181 to 480, 481 - Practicum 1 Credit(s).
- ESC 205 - Tropical and Marine Ecology 4 Credit(s).
  OR
- ESC 206 - Community Ecology of the Southeast 4 Credit(s).
  OR
- ESC 207 - South African Ecology and Culture 4 Credit(s).
  OR
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).
- ESC 302 - Conservation Biology 3 Credit(s).
- ESC 321 - Aquatic Ecology 4 Credit(s).
- ESC 190, 290, 390 or 490 - Selected Topics 1-4 Credit(s).
- ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
- ESC 413 - Forest Science and Management 4 Credit(s).
- ESC 421 - Pollution Science 4 Credit(s).
- ESG 424 - Environmental Toxicology 3 Credit(s).
- ESC 195, 196 to 495, 496 - Independent Research 1-3 Credit(s).
- PSC 302 - Political Geography 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s).

Total Credit Hours Required in Major: 51 – 52

Total Credit Hours Required in Degree: 121

International Studies, Global Affairs Emphasis, B.A.

International Studies

The growth of world interdependence has made it imperative that Ferrum College offer its students a program of study which can prepare them to function effectively in a society more than ever affected by international affairs. Virtually every aspect of life in the modern United States – business and labor, religious life, government: both federal and state, and even science and technology – is influenced by what happens in the wider world. The interdisciplinary major in International Studies is designed to provide students with the opportunity to be educated for citizenship in this kind of world. Students must choose one of the two emphasis areas.

The Global Affairs emphasis broadly covers history, language, culture, economy, and politics of foreign nations and the international community. Graduates will be prepared to take advantage of expanding career opportunities in
transnational businesses, government, and the many humanitarian, research, and lobbying groups operating in the international context. The program also provides an academic foundation for post-graduate study.

The International Security Studies emphasis area of the International Studies program will focus on specific courses and topics pertaining to international security, including cybersecurity, war, terrorism, and other related security issues. Students interested in careers in intelligence, security, government related careers, the military, cybersecurity, and legal profession may benefit from taking this emphasis area of the major.

Experiential Component (Complete the Following Courses:)

- PSC 203 - International Politics 3 Credit(s).

International Travel (Choose one course)

One course that involves international travel including but not limited to:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESG 207 - South African Ecology and Culture 4 Credit(s). (South Africa)
- ESC 208 - Ireland’s Natural History: Interaction of Nature and Culture 4 Credit(s). (Ireland)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Liberal Arts Requirements (12 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- LAN 201 - Foreign Language 3 Credit(s).
- LAN 202 - Foreign Language 3 Credit(s).
- PSC 205 - Comparative Government 3 Credit(s).

Common Required Courses (18 Credit Hours)

- IST 350 - International Relations Theory 3 Credit(s).
- IST 496 - Individual or Collaborative Study 3 Credit(s).
- IST 498 - International Studies Senior Seminar 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).

Research Course (Choose 1 Research Course from list)

- HIS 398 - Historiography 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).
- ENG 401 - Literary Criticism 3 Credit(s).

International Travel (Choose one course)
One course that involves international travel, such as:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Language Requirement (6 Credit Hours)

- LAN 301, 302 - Advanced Foreign Language Credit Hour(s): 6

Global Affairs Emphasis

Area Studies (9 Credits)

Choose 9 hours from the following:

- HIS 371 - China 3 Credit(s).
- HIS 373 - India 3 Credit(s).
- HIS 374 - Southeast Asia 3 Credit(s).
- HIS 375 - Sub-Saharan Africa 3 Credit(s).
- HIS 376 - North Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).
- HIS 355 - Russia Since 1917 3 Credit(s).
- HIS 357 - Russian History 3 Credit(s).

International Relations (at Least 9 Credit Hours)

- PSC 302 - Political Geography 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).
- PSC 420 - War and Peacekeeping: U.S. National Security Policy 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s).

Economics (at Least 3 Credit Hours)

- BUS 420 - International Business 3 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- ECO 430 - Development Economics 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).

World Cultures and Practices (at Least 6 Credit Hours)
• ENG 201 - World Literature I 3 Credit(s).
• ENG 202 - World Literature II 3 Credit(s).
• ENG 210 - World Folktales and Literature 3 Credit(s).
• HUM 200 - The Holocaust: Past, Present, and Future 3 Credit(s).
  OR
• HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
• HUM 333 - Intercultural Conflict Mediation 3 Credit(s).
• REL 151 - World Religions 3 Credit(s).
• SPA 320 - Introduction to Literature in Spanish 3 Credit(s).
• SPA 325 - Spanish Civilization & Culture 3 Credit(s).
• SPA 326 - Latin American Civilization & Culture 3 Credit(s).
• SPA 403 - Special Topics in Hispanic Culture 3 Credit(s).
• SPA 404 - Selected Topics in Hispanic Literature 3 Credit(s).
• THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
• THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).

Major Electives (6 Credit Hours)

Additional courses from the Area Studies or International Relations categories or from the following:

• HIS 496 - Individual/Alternative Study 1-3 Credit(s).
• HIS 497 - Selected Topics in History 3 Credit(s).
• IST 325 - Special Topics in International Studies 3 Credit(s).
• PSC 491 - Topics in Political Science 3 Credit(s).
• PSC 499 - Internship 3, 6 or 9 Credit(s). (as approved by the program coordinator)

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121


International Studies

The growth of world interdependence has made it imperative that Ferrum College offer its students a program of study which can prepare them to function effectively in a society more than ever affected by international affairs. Virtually every aspect of life in the modern United States – business and labor, religious life, government: both federal and state, and even science and technology – is influenced by what happens in the wider world. The interdisciplinary major in International Studies is designed to provide students with the opportunity to be educated for citizenship in this kind of world. Students must choose one of the two emphasis areas.
The Global Affairs emphasis broadly covers history, language, culture, economy, and politics of foreign nations and the international community. Graduates will be prepared to take advantage of expanding career opportunities in transnational businesses, government, and the many humanitarian, research, and lobbying groups operating in the international context. The program also provides an academic foundation for post-graduate study.

The International Security Studies emphasis area of the International Studies program will focus on specific courses and topics pertaining to international security, including cybersecurity, war, terrorism, and other related security issues. Students interested in careers in intelligence, security, government related careers, the military, cybersecurity, and legal profession may benefit from taking this emphasis area of the major.

Experiential Component (Complete the Following Courses:)

- PSC 203 - International Politics 3 Credit(s).

International Travel (Choose one course)

One course that involves international travel including but not limited to:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESC 207 - South African Ecology and Culture 4 Credit(s). (South Africa)
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s). (Ireland)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Liberal Arts Requirements (12 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- LAN 201 - Foreign Language 3 Credit(s).
- LAN 202 - Foreign Language 3 Credit(s).
- PSC 205 - Comparative Government 3 Credit(s).

Common Required Courses (18 Credit Hours)

- IST 350 - International Relations Theory 3 Credit(s).
- IST 496 - Individual or Collaborative Study 3 Credit(s).
- IST 498 - International Studies Senior Seminar 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).

Research Course (Choose 1 Research Course from list)

- HIS 398 - Historiography 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).
- ENG 401 - Literary Criticism 3 Credit(s).
International Travel (Choose one course)

One course that involves international travel, such as:

- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Belize)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s). (Costa Rica)
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (Virgin Islands)
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).
- SAB 250 - Study Abroad 1-6 Credit(s).
- SAB 350 - Study Abroad 1-6 Credit(s).
- Other internationally focused E-Terms

Common Language Requirement (6 Credit Hours)

- LAN 301, 302 - Advanced Foreign Language Credit Hour(s): 6

International Security Studies Emphasis

Additional Emphasis Required Courses (6 Credit Hours)

- PSC 420 - War and Peacekeeping: U.S. National Security Policy 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).

Area Studies (Choose 6 Credit Hours)

- HIS 371 - China 3 Credit(s).
- HIS 373 - India 3 Credit(s).
- HIS 374 - Southeast Asia 3 Credit(s).
- HIS 375 - Sub-Saharan Africa 3 Credit(s).
- HIS 378 - North Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).

International Relations (Choose 6 Credit Hours)

- IST 325 - Special Topics in International Studies 3 Credit(s).
- PSC 302 - Political Geography 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s).

Economics (Choose 3 Credit Hours)

- ECO 430 - Development Economics 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).

Information Systems and Security (Choose 6 Credit Hours)
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 290, 390 or 490 - Selected Topics in Computer Science 1-3 Credit(s). Data, Cybersecurity, and You (This topic only)

**Major Electives (6 Credit Hours)**

Additional courses from the Area Studies or International Relations categories or from the following:

- BUS 420 - International Business 3 Credit(s).
- CSC 345 - Advanced Networking Configuration and Management 3 Credit(s).
- CSC 435 - Fundamentals of Cybersecurity 3 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- GEO 221 - Geographic Information Systems 4 Credit(s).

- HUM 200 - The Holocaust: Past, Present, and Future 3 Credit(s).
  OR
- HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).

- HUM 333 - Intercultural Conflict Mediation 3 Credit(s).
- HIS 496 - Individual/Alternative Study 1-3 Credit(s).
- HIS 497 - Selected Topics in History 3 Credit(s).
- PSC 402 - Policy Analysis 3 Credit(s).
- PSC 491 - Topics in Political Science 3 Credit(s).
- PSC 499 - Internship 3 or 6 or 9 Credit(s). (as approved by the program coordinator)
- REL 151 - World Religions 3 Credit(s).
- REL 251 - Interfaith Dialogue and Understanding 3 Credit(s).
- SPA 325 - Spanish Civilization & Culture 3 Credit(s).
- SPA 326 - Latin American Civilization & Culture 3 Credit(s).
- SPA 403 - Special Topics in Hispanic Culture 3 Credit(s).

**Total Credit Hours Required in Major: 57**

**Total Credit Hours Required in Degree: 121**

**Music (Minor Required), Business Emphasis, B.A.**

The study of music at a liberal arts institution fosters problem solvers, independent thinkers, team players and future leaders. A student majoring in music at Ferrum College will have the opportunity to perform with instrument or voice, demonstrate an understanding of music theory and practice, study the development of music throughout history, and develop an understanding of the business of music. The goals of this degree program are to develop musicianship and artistic sensibilities alongside business and technical skills.

**Experiential Requirement (3 Credit Hours)**
Complete 3 credits from Musical Ensemble courses.

Liberal Arts Requirement (6 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MUS 358 - Music: Baroque and Classic Periods 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

Complete ACC 201 and 6 credit hours of the same language.

- ACC 201 - Principles of Accounting I 3 Credit(s).
- SPA 101 - Elementary Spanish I 3 Credit(s).
- SPA 102 - Elementary Spanish II 3 Credit(s).
- LAN 101 - Foreign Language 3 Credit(s).
- LAN 102 - Foreign Language 3 Credit(s).

Required Courses (35 Credit Hours)

- MUS 105 - Music Theory I 2 Credit(s).
- MUS 106 - Aural Skills Lab I 1 Credit(s).
- MUS 107 - Music Theory II 2 Credit(s).
- MUS 108 - Aural Skills Lab II 1 Credit(s).

Complete both Piano courses (2 Credit Hours)
- MUS 143, 144 - Piano Class 1 Credit(s).

Private Music Lessons (Choose 6 Credit Hours):
- MUS 151, 152 to 451, 452 - Private Music Lessons 1 Credit(s).

Music Ensemble (Choose 8 Credit Hours)
- MUS 111, 112 to 411, 412 - Concert Choir 1 Credit(s).
- MUS 117, 118 to 417, 418 - Collegiates 1 Credit(s).
- MUS 119, 120 to 419, 420 - Band 1 Credit(s).
- MBU 201 - Music Business I 3 Credit(s).
- MBU 301 - Music Business II 3 Credit(s).
- MUS 359 - Music: Romantic and Modern Periods 3 Credit(s).
- MBU 401 - Advanced Topics in Music Business 1 Credit(s).
- MBU 499 - Music Business Internship 3 Credit(s).

Program Electives (Choose 3 Credit Hours)

- ART 222 - Basic Computer Graphics 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• BUS 320 - Entrepreneurship 3 Credit(s).
• COM 200 - Strategies for Public Relations and Social Media 3 Credit(s).
• COM 215 - Multimedia Storytelling 3 Credit(s).
• COM 223 - Basic Audio Recording 3 Credit(s).
• ENG 310 - Media Law and Ethics 3 Credit(s).
• REC 450 - Special Events Planning and Management 3 Credit(s).

Total Credit Hours Required in Major: 38

Total Credit Hours Required in Degree: 121

Music (Minor Required), Performance Emphasis, BA

The study of music at a liberal arts institution fosters problem solvers, independent thinkers, team players and future leaders. A student majoring in music at Ferrum College will have the opportunity to perform with instrument or voice, demonstrate an understanding of music theory and practice, study the development of music throughout history, and develop an understanding of the business of music. The goals of this degree program are to develop musicianship and artistic sensibilities alongside business and technical skills.

Experiential Requirement (3 Credit Hours)

Complete 3 Credit Hours from Musical Ensemble courses,

Liberal Arts Requirements (3 Credit Hours)

• MUS 358 - Music: Baroque and Classic Periods 3 Credit(s).

Program Specific Requirements (6 Credit Hours)

Choose 6 hours of the same language.

• SPA 101 - Elementary Spanish I 3 Credit(s).
• SPA 102 - Elementary Spanish II 3 Credit(s).
  OR
• LAN 101 - Foreign Language 3 Credit(s).
• LAN 102 - Foreign Language 3 Credit(s).

Required Courses (31 Credit Hours)

• MUS 105 - Music Theory I 2 Credit(s).
• MUS 106 - Aural Skills Lab I 1 Credit(s).
• MUS 107 - Music Theory II 2 Credit(s).
• MUS 108 - Aural Skills Lab II 1 Credit(s).

Complete both Piano courses (2 Credit Hours)
• MUS 143, 144 - Piano Class 1 Credit(s).

• MUS 310 - Introduction to Conducting 1 Credit(s).
• MUS 359 - Music: Romantic and Modern Periods 3 Credit(s).
• MUS 428 - Foundations in Music Education 2 Credit(s).
• MUS 465 - Senior Recital 1 Credit(s).

Musical Ensemble (8 Credit Hours)
• MUS 111, 112 to 411, 412 - Concert Choir 1 Credit(s).
• MUS 117, 118 to 417, 418 - Collegiates 1 Credit(s).
• MUS 119, 120 to 419, 420 - Band 1 Credit(s).

Applied Music Lessons (6 Credit Hours)
• MUS 161, 162 to 461, 462 - Applied Music Lessons 2 Credit(s).

Music Electives (6 Credit Hours)

Choose 6 hours of MUS electives.

Total Credit Hours Required in Major: 37

Total Credit Hours Required in Degree: 121

Philosophy (Minor Required), B.A.

The philosophy program at Ferrum College offers a course of study leading to the Bachelor of Arts degree. Philosophy is a discipline that explores the fundamental concerns of human life, such as the structure of human existence, the existence of God, the ultimate nature of reality, the possibility of human knowledge, the role of reason, the essence of truth, the foundations of moral and aesthetic judgments, the meaning of life, and the challenge of death. A large number of careers can be shaped or enhanced by the study of philosophy due to the analytical abilities, interpretive skills, and probing attitude which it helps to develop. While many graduates choose to attend graduate school in philosophy, as well as other disciplines, the philosophy program also offers a solid foundation for those with an interest in writing, editing, and publishing, and excellent pre-professional preparation for those interested in seminary, law school, or medical school. Philosophy graduates have also chosen to enter the workplace as counselors, ethical consultants, and knowledge managers in both government and private industry, while many entertainers have found degrees in philosophy to be helpful in the development of their careers.

Experiential Component (Complete the Following Courses:)

• PHI 498 - Senior Seminar in Philosophy 2 Credit(s).
• PHI 499 - Senior Seminar in Philosophy 2 Credit(s).
Program Specific Requirements

Philosophy majors must take six hours of one foreign language at the intermediate level OR six hours each of two foreign languages at the introductory level (total 12 hours)

Required Courses (37 Credit Hours)

- PHI 101 - Logic 3 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PHI 221 - Survey of Ancient and Medieval Philosophy 3 Credit(s).
- PHI 222 - Survey of Modern Philosophy 3 Credit(s).
- PHI 498 - Senior Seminar in Philosophy 2 Credit(s).
- PHI 499 - Senior Seminar in Philosophy 2 Credit(s).
- An additional 21 hours of philosophy, at least 15 at the 300-400 level Credit Hour(s): 21

Substitution Courses

With permission of the philosophy faculty, some of the courses listed below may serve as substitutions.

- PSC 303 - Political Theory from Socrates to Locke 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).
- REL 222 - History of Christian Thought 3 Credit(s).
- REL 331 - Christian Theology 3 Credit(s).
- Other Religion courses

Total Credit Hours Required in Major (Minor Required): 37

Total Credit Hours Required in Degree: 121

Religion (Minor Required), B.A.

Students majoring in religion learn to read texts (both ancient and modern) carefully; study the oral traditions, stories, rituals, and structures of religious communities; explore the beliefs and values of different religious traditions; and develop a critical perspective to the diverse cultural expressions of both Christian and non-Christian religions. Many graduates work in churches or continue their education in seminary. A religion major or minor also serves as excellent preparation for other graduate programs or careers because of the emphasis on reading, writing, analyzing, and speaking.

Experiential Component (Complete 1 of the Following Courses:)

- REL 397, 398 or 399 - Ministry Practicum 1-3 Credit(s).
- REL 481 or 482 - Seminar in Religious Studies 3 Credit(s).
Program Specific Requirements (6 Credit Hours)

- 6 hours of a foreign language

Required Major Courses (18 Credit Hours)

Select 18 hours from the following areas:

Biblical (Choose 3 Credit Hours from the Following List)

- REL 111 - Literature of the Bible 3 Credit(s).
- REL 112 - Literature of the Old Testament 3 Credit(s).
- REL 113 - Literature of the New Testament 3 Credit(s).
- REL 311 - Prophetic Literature of the Old Testament 3 Credit(s).
- REL 315 - Studies in the Gospel 3 Credit(s).
- REL 316 - Life and Letters of Paul 3 Credit(s).

Historical (Choose 3 Credit Hours from the Following List)

- PHI 221 - Survey of Ancient and Medieval Philosophy 3 Credit(s).
- PHI 222 - Survey of Modern Philosophy 3 Credit(s).
- REL 210 - American Gods 3 Credit(s).
- REL 222 - History of Christian Thought 3 Credit(s).
- REL 320 - Jesus and His Afterlives 3 Credit(s).
- REL 401 - Biblical Archaeology 3 Credit(s).

Theological (Choose 3 Credit Hours from the Following List)

- HON 225 - Religion and Science: Historical and Contemporary Perspectives 3 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PHI 431 - Philosophy of Religion 3 Credit(s).
- REL 216 - Religion in Film 3 Credit(s).
- REL 245 - Religion and Public Life 3 Credit(s).
- REL 331 - Christian Theology 3 Credit(s).

Comparative (Choose 3 Credit Hours from the Following List)

- REL 151 - World Religions 3 Credit(s).
- REL 207 - Selected Topics 3 Credit(s). (when topics include non-Christian religions: e.g., Islam or Hinduism and Buddhism courses have been offered in recent years.)
- REL 251 - Interfaith Dialogue and Understanding 3 Credit(s).

Seminar (Choose 3 Credit Hours from the Following List)

- REL 481 or 482 - Seminar in Religious Studies 3 Credit(s).
Religion Major Electives (18 Credit Hours)

Choose 18 Credit Hours from the Following:

- Up to three philosophy courses with the approval of the program coordinator.
- Any additional REL courses
- HON 206 - The Bible and The Arts 3 Credit(s).
- HON 225 - Religion and Science: Historical and Contemporary Perspectives 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 36

Total Credit Hours Required in Degree: 121

Spanish (Minor Required), B.A.

The Spanish major provides a program of study designed to develop linguistic proficiency and cultural competence. The goal of the Spanish major is to nurture an appreciation and understanding of the diversity of the Hispanic world. The program encourages civic engagement, critical thinking, strong written and oral communication skills, and global awareness through the study of culture, language, artistic expression, current events, travel, and service. The program prepares students for work and graduate study in education, social work, psychology, criminal justice, business, health sciences, environmental studies, agriculture, journalism, tourism, law, government work, and many more.

Experiential Component

The Experiential Component (requirement of the major) can be met by successfully completing:

- An approved study away program in a Spanish-speaking country (in the E-Term or through one of our partner institutions).

Required Major Courses (9 Credit Hours)

- SPA 301 - Advanced Grammar and Composition 3 Credit(s).
- SPA 302 - Advanced Speaking and Comprehension 3 Credit(s). (Speaking Intensive)

Complete one of the following courses:

- SPA 250 - Special Topics in Hispanic Culture 3 Credit(s).
  OR
- SPA 299 - Latino Communities in the U.S. 3 Credit(s).

Major Electives (Choose 21 Credit Hours from the Following List)

- SPA 201 - Intercultural Competence Through Language I 3 Credit(s).
- SPA 202 - Intermediate Language and Culture II 3 Credit(s).
- SPA 221 - Intermediate Language Lab I 1 Credit(s).
• SPA 222 - Intermediate Language Lab II 1 Credit(s).
• SPA 250 - Special Topics in Hispanic Culture 3 Credit(s).
• SPA 299 - Latino Communities in the U.S. 3 Credit(s).
• SPA 311 - Spanish for the Professions Credit(s).
• SPA 320 - Introduction to Literature in Spanish 3 Credit(s).
• SPA 325 - Spanish Civilization & Culture 3 Credit(s).
• SPA 326 - Latin American Civilization & Culture 3 Credit(s).
• SPA 403 - Special Topics in Hispanic Culture 3 Credit(s).
• SPA 404 - Selected Topics in Hispanic Literature 3 Credit(s).
• SPA 451 or 452 - Directed Study 3 Credit(s).
• SPA 453 - Directed Study 3 Credit(s).
• SPA 454 - Directed Study 3 Credit(s).
• SPA 499 - Internship 3 Credit(s).

Additional Electives (Choose 6 Credit Hours from the Following List)

• ACC 407 - International Accounting 3 Credit(s).
• AGS 417 - Farm Business Management 3 Credit(s).
• ART 325 - Modern Art and the Twentieth Century 3 Credit(s).
• BUS 420 - International Business 3 Credit(s).
• BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
• BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
• CHM 412 - Environmental Chemistry 3 Credit(s).
• COM 201 - Public Speaking 3 Credit(s).
• DJC 498 - Democracy, Justice and Civic Engagement Senior Seminar 3 Credit(s).
• ECO 330 - International Trade 3 Credit(s).
• ECO 400 - International Finance 3 Credit(s).
• ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
• ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
• ENG 201 - World Literature I 3 Credit(s).
• ENG 202 - World Literature II 3 Credit(s).
• ENG 210 - World Folktales and Literature 3 Credit(s).
• ESC 302 - Conservation Biology 3 Credit(s).
• GEO 220 - Physical Geography 4 Credit(s).
• HIS 380 - Latin American History 3 Credit(s).
• HUM 333 - Intercultural Conflict Mediation 3 Credit(s).
• IST 350 - International Relations Theory 3 Credit(s).
• PHI 131 - The Human Condition 3 Credit(s).
• PSC 203 - International Politics 3 Credit(s).
• PSC 306 - Politics and Human Rights 3 Credit(s).
• PSY 230 - Social Psychology 3 Credit(s).
• REC 319 - Recreation Delivery Systems 3 Credit(s).
• REC 343 - Facilitation of Adventure Pursuits 3 Credit(s).
• REL 151 - World Religions 3 Credit(s).
• SCI 123 - Global Ecology and Climate Change 2 Credit(s).
• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
• SOC 310 - Social Class and Inequality 3 Credit(s).
• SWK 299 - Introduction to Community Service 3 Credit(s).
• SWK 330 - Human Behavior and the Social Environment 3 Credit(s).
• THA 222 - Voice and Diction 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 36
Total Credit Hours Required in Degree: 121

Theatre Arts (Minor Required), B.A.

The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing theatre arts serves "not self, but others." In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.A. is frequently, but not exclusively, chosen by those wishing to pursue M.A. and Ph.D. degrees. This is also the program chosen by those seeking Teacher Licensure. The student's choice of minor may open up careers in such fields as Drama Therapy, Historical Re-enactment, Dramaturgy, Theatre Management, or Play Writing.

Note: Students majoring in Theatre may not minor in Theatre.

Required Common Theatre Courses (21 Credit Hours)

• THA 111 - Fundamentals of Acting I 3 Credit(s).
• THA 112 - Fundamentals of Acting II 3 Credit(s).
• THA 205 - Applied Summer Theatre I 3 Credit(s).
• THA 300 - Auditions and Makeup Workshop 3 Credit(s).
• THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
• THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
• THA 498 - Senior Seminar 3 Credit(s).

Theatre Electives (Choose 18 Credit Hours from the Following List)

(Please note that a minimum of 19 credit hours @ 300-400 level is required in Major.)

• THA 202 - Stage Craft 3 Credit(s).
• THA 233 - Introduction to Musical Theatre 3 Credit(s).
THA 246 - Play Production I: Beginning Directing 3 Credit(s).
THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).
THA 305 - Applied Summer Theatre II 3 Credit(s).
THA 405 - Applied Summer Theatre III 3 Credit(s).
THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
THA 346 - Readers Theatre 3 Credit(s).
THA 412, 413 or 414 - Special Theatre Topics 1-3 Credit(s).
THA 446 - Directing 3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

(Please note that a minimum of 19 credits hours at the 300-400 level is required within major.)

Total Credit Hours Required in Degree: 121

Bachelor of Fine Arts

Theatre Arts, Acting/Directing Emphasis, B.F.A.

The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing theatre arts serves “not self, but others.” In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.F.A. is frequently, but not exclusively, chosen by those students wishing to pursue M.F.A. Degrees and professional performing careers. It stresses heavy course and performance work in the area of emphasis. Students pursuing this degree normally declare no later than five semesters before graduation. If graduation is sooner, they must gain the endorsement of the program coordinator. There are three emphasis areas: Acting/Directing, Musical Theatre, and Technical Theatre.

Required Common Theatre Courses (21 Credit Hours)

- THA 111 - Fundamentals of Acting I 3 Credit(s).
- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 205 - Applied Summer Theatre I 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
• THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
• THA 498 - Senior Seminar 3 Credit(s).

Acting/Directing Emphasis (36 Credit Hours)

Acting/Directing Required Courses (18 Credit Hours)

• THA 202 - Stage Craft 3 Credit(s).
• THA 222 - Voice and Diction 3 Credit(s).
• THA 246 - Play Production I: Beginning Directing 3 Credit(s).
• THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).
• THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
• THA 446 - Directing 3 Credit(s).

Dance Electives (Choose 3 Credit Hours from the Following List)

• DAN 105 - Fundamentals of Dance Styles 1 Credit(s).
• DAN 106 - Fundamentals of Dance Styles 1 Credit(s).
• DAN 110 - Beginning Dance for Performance I 1 Credit(s).
• DAN 111 - Beginning Dance for Performance II 1 Credit(s).
• DAN 121 - Rhythm with the Feet 1 Credit(s).

Music Elective (Choose 3 Credit Hours from the Following List)

• MUS 102 - Music Fundamentals 3 Credit(s).
• MUS 131-432 - Vocal Ensembles Credit Hour(s): 1
• MUS 143, 144 - Piano Class 1 Credit(s).
• MUS 153 - Voice Class 1 Credit(s).

Art Electives (Choose 6 Credit Hours from the Following List)

• ART 101 - Two-Dimensional Design 3 Credit(s).
• ART 104 - Drawing Fundamentals 3 Credit(s).
• ART 130 - The Color Course 3 Credit(s).
• ART 215 - Photoshop 3 Credit(s).

Communication & Media Electives (Choose 3 Credit Hours from the Following List)

• COM 101 - Introduction to Mass Communication 3 Credit(s).
• COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).
• COM 271 - On-line Media 3 Credit(s).

English Electives (Choose 3 Credit Hours from the Following List)
The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing theatre arts serves "not self, but others." In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.F.A. is frequently, but not exclusively, chosen by those students wishing to pursue M.F.A. Degrees and professional performing careers. It stresses heavy course and performance work in the area of emphasis. Students pursuing this degree normally declare no later than five semesters before graduation. If graduation is sooner, they must gain the endorsement of the program coordinator. There are three emphasis areas: Acting/Directing, Musical Theatre, and Technical Theatre.

Required Common Theatre Courses (21 Credit Hours)

- THA 111 - Fundamentals of Acting I 3 Credit(s).
- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 205 - Applied Summer Theatre I 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
- THA 498 - Senior Seminar 3 Credit(s).

Musical Theatre Emphasis (36 Credit Hours)

Required Musical Theatre Courses (12 Credit Hours)

- THA 233 - Introduction to Musical Theatre 3 Credit(s).
• THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).
• THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
• THA 333 - Musical Theatre II 3 Credit(s).

Required Music Courses (19 Credit Hours)

• MUS 102 - Music Fundamentals 3 Credit(s).
• MUS 131-432 - Vocal Ensembles Credit Hour(s): 3 (1 credit each)
• MUS 143, 144 - Piano Class 1 Credit(s).
• MUS 151, 152 to 451, 452 - Private Music Lessons 1 Credit(s).
• MUS 153 - Voice Class 1 Credit(s).
• MUS 154 - Voice Class 1 Credit(s).

Required Dance Courses (5 Credit Hours)

• DAN 105 - Fundamentals of Dance Styles 1 Credit(s).
• DAN 106 - Fundamentals of Dance Styles 1 Credit(s).
• DAN 110 - Beginning Dance for Performance 1 Credit(s).
• DAN 111 - Beginning Dance for Performance II 1 Credit(s).
• DAN 121 - Rhythm with the Feet 1 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Theatre Arts, Technical Theatre Emphasis, B.F.A.

The Theatre Arts program has a strong academic emphasis with students gaining experience to reinforce the coursework through productions, large and small. The degree program in Theatre Arts emphasizes process drama, the value of improvisation, and ensemble. Echoing the College motto, it also asks students to consider how practicing theatre arts serves “not self, but others.” In the liberal arts setting, the program prepares students to pursue a wide variety of careers. Students receive broad exposure to the various disciplines within theatre and are encouraged by the faculty to pursue their special interests. Internship experience is encouraged (required for the B.F.A) either in a summer theatre company, or in some other setting appropriate to the major such as with a television station or community theatre. The Experiential Component (a requirement of the major as a whole) can be met by successfully completing the required courses.

Note: The nature of theatre as a field of study involves a considerable time commitment outside of regularly scheduled classes. Majors are expected to participate on stage or behind the scenes in all major productions as members of the artistic ensemble. Students are also expected to participate in a yearly adjudicated audition and a minimum of 3 annual reviews of performance and academic progress conducted by theatre arts faculty. All students complete a Senior Thesis Production.

The B.F.A. is frequently, but not exclusively, chosen by those students wishing to pursue M.F.A. Degrees and professional performing careers. It stresses heavy course and performance work in the area of emphasis. Students pursuing this degree normally declare no later than five semesters before graduation. If graduation is sooner, they must gain the endorsement of the program coordinator. There are three emphasis areas: Acting/Directing, Musical Theatre, and Technical Theatre.
Required Common Theatre Courses (21 Credit Hours)

- THA 111 - Fundamentals of Acting I 3 Credit(s).
- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 205 - Applied Summer Theatre I 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).
- THA 498 - Senior Seminar 3 Credit(s).

Technical Theatre Emphasis (36 Credit Hours)

Required Technical Theatre Courses (15 Credit Hours)

- THA 202 - Stage Craft 3 Credit(s).
- THA 246 - Play Production I: Beginning Directing 3 Credit(s).
- THA 281, 282 to 287, 288 - Theatre Practicum 1 Credit(s).

- THA 305 - Applied Summer Theatre II 3 Credit(s).
  OR
- THA 405 - Applied Summer Theatre III 3 Credit(s).

- THA 402 - Stagecraft II 3 Credit(s).

ART Electives (Choose 12 Credit Hours from the Following List)

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 104 - Drawing Fundamentals 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).
- ART 215 - Photoshop 3 Credit(s).
- ART 222 - Basic Computer Graphics 3 Credit(s).
- ART 228 - Introduction to Sculpture 3 Credit(s).
- ART 230 - The Painting Studio 3 Credit(s).

Communication & Media Electives (Choose 9 Credit Hours from the Following List)

- COM 101 - Introduction to Mass Communication 3 Credit(s).
- COM 223 - Basic Audio Recording 3 Credit(s).
- COM 235 - Fundamental of TV and Video Production 3 Credit(s).
- COM 323 - Stage Audio 3 Credit(s).

Total Credit Hours Required in Major: 57
Total Credit Hours Required in Degree: 121

Bachelor of Arts or Bachelor of Science

Chemistry (Minor Required for B.A.), B.A. or B.S.

Chemistry is the central science whose boundaries reach into both biology and physics. Chemistry is the science concerned with the composition, structure, and properties of different substances, the correlation of substances' properties to their structures, and the energy changes accompanying the transformation of these substances.

A Ferrum College B.A. or B.S. in chemistry, together with the appropriate minor or supporting elective courses, will prepare a student to begin a career in business, industry, government, science, or secondary education. Students are prepared for graduate school in any of the fields of chemistry or related interdisciplinary areas such as toxicology, environmental engineering, materials science, or pharmacology. Some graduate programs in Forensic Science specify that a bachelor's degree in Chemistry (or other natural science) is required for admission. The chemistry major also makes the student competitive for entrance into professional schools in business or law, as well as the more traditional areas such as veterinary and human medicine and pharmacy.

The Experiential Component (requirement of the major) in this program is met by successful completion of all laboratory courses specified by the major

B.S. Degree (Without Minor)

Liberal Arts Requirements (7 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements (7 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s). or higher

Choose one of the following courses:
- MTH 221 - Calculus II 3 Credit(s). OR
- MTH 322 - Calculus III 3 Credit(s).

Required Courses (54 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 305 - Analytical Chemistry 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).
- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
• CHM 425 - Inorganic Chemistry 4 Credit(s).
• NSM 398 - Junior Seminar 3 Credit(s).
• NSM 498 - Senior Seminar 3 Credit(s).
• PHY 203 - Fundamentals of Physics 4 Credit(s).
• PHY 204 - Fundamentals of Physics 4 Credit(s).

Choose 6 Credit Hours from the following list:
• CHM 331 - Forensic Science 4 Credit(s).
• CHM 220 - Principles of Pharmacology 3 Credit(s).
• CHM 190, 290, 390 or 490 - Special Topics 1-4 Credit(s).
• CHM 405 - Advanced Chemistry Laboratory 4 Credit(s). (E-Term only)
• CHM 412 - Environmental Chemistry 3 Credit(s).
• CHM 420 - Medicinal Chemistry 3 Credit(s).
• CHM 195, 196 to 495, 496 - Independent Research 1-3 Credit(s).

Total Credit Hours Required in Major: 54

Total Credit Hours Required in Degree: 121

B.A. Degree (Minor Required)

Liberal Arts Requirements (7 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s). OR
• BIO 111 - Introductory Biology II 4 Credit(s).
  AND
• MTH 203 - Concepts in Calculus 3 Credit(s). OR
• MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements (8 Credit Hours)

• PHY 201 - General Physics I 4 Credit(s). AND
• PHY 202 - General Physics II 4 Credit(s).
  OR
• PHY 203 - Fundamentals of Physics 4 Credit(s). AND
• PHY 204 - Fundamentals of Physics 4 Credit(s).

Required Courses (39-41 Credit Hours)

• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 104 - General Chemistry II 4 Credit(s).
• CHM 301 - Organic Chemistry I 4 Credit(s).
• CHM 302 - Organic Chemistry II 4 Credit(s).
• CHM 305 - Analytical Chemistry 4 Credit(s).
• CHM 315 - Biochemistry 4 Credit(s).
• CHM 341 - Physical Chemistry I 3 Credit(s).
CHM 425 - Inorganic Chemistry 4 Credit(s).
NSM 398 - Junior Seminar 3 Credit(s).
NSM 498 - Senior Seminar 3 Credit(s).

Choose 2-4 Credit Hours from the following list:

- CHM 331 - Forensic Science 4 Credit(s).
- CHM 220 - Principles of Pharmacology 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
- CHM 190, 290, 390 or 490 - Special Topics 1-4 Credit(s).
- CHM 405 - Advanced Chemistry Laboratory 4 Credit(s).
- CHM 412 - Environmental Chemistry 3 Credit(s).
- CHM 420 - Medicinal Chemistry 3 Credit(s).
- CHM 195, 196 to 495, 496 - Independent Research 1-3 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39-41

Total Credit Hours Required in Degree: 121

Students who intend to pursue graduate education in chemistry are strongly encouraged to pursue the B.S. degree and to take MTH 208 - Introductory Statistics, MTH 246 - Linear Algebra I, MTH 322 - Calculus III, and MTH 332 - Differential Equations in addition to the required MTH 211 - Calculus I course.

Criminal Justice, Criminology Emphasis, B.A. or B.S.

Criminal Justice

The Criminal Justice Program is designed to prepare students for careers in law, law enforcement, corrections, and social science research. Conceived with the idea that criminal justice professionals will benefit from a strong liberal arts education, the program stresses theory and policy analysis combined with professional experience. A Ferrum College criminal justice graduate will have strong oral and written communication skills as well as the ability to think critically and solve problems while recognizing the importance of high ethical standards.

Experiential Component (Complete 1 of the Following Courses:)

- CJU 499 - Internship 3 Credit(s).
- SOC 391 - Directed Study in Sociology 1-3 Credit(s).

Liberal Arts Requirements (6 Credit Hours)

- MTH 107 - Introduction to Finite Mathematics 3 Credit(s), OR
- MTH 111 - Pre-Calculus I 3 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).

Program Specific Requirements (6 Credit Hours)
- MTH 208 - Introductory Statistics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

**B.S. Degree Requires Two Courses from the Following (6 Credit Hours)**

- ACC 110 - Introduction to Accounting 3 Credit(s). OR
- ACC 201 - Principles of Accounting I 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- COM 201 - Public Speaking 3 Credit(s). OR
- THA 222 - Voice and Diction 3 Credit(s).
- CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s). OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s). OR
- BUS 230 - Computer Applications 3 Credit(s).
- ENG 461 - Professional Writing 3 Credit(s).

**B.A. Additional Degree Requirements (6 Credit Hours)**

Six hours of foreign language at the 200 level or higher.

**Common Required Courses (33 Credit Hours)**

- CJU 201 - Introduction to Criminal Justice 3 Credit(s).
- CJU 204 - Fundamentals of Corrections 3 Credit(s).
- CJU 220 - Criminal Law 3 Credit(s).
- CJU 300 - Dilemmas and Decision Making in Criminal Justice 3 Credit(s).
- CJU 314 - Courts and the Judicial Process 3 Credit(s).
- CJU 320 - Deviance and Social Control 3 Credit(s). OR
- SOC 320 - Deviance and Social Control 3 Credit(s).
- CJU 370 - Research Methods & Statistics in Criminal Justice 3 Credit(s).
- CJU 498 - Seminar 3 Credit(s).
- PSC 202 - State and Local Government 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).

**Criminology Emphasis**

This emphasis will allow students to have a broader background in the field of Criminal Justice. Students will be better prepared to work in many different areas of Criminal Justice, from Law Enforcement, Corrections, Juvenile Probation, Adult Probation, or enter graduate programs in criminal justice or law.

**Required Emphasis Courses (24 Credit Hours)**
• CJU 310 - Victimology 3 Credit(s).
• CJU 315 - Constitutional Law for Criminal Justice Professionals 3 Credit(s).
• CJU 340 - Interviewing and Crisis Intervention 3 Credit(s).
• CJU 350 - Crime and Delinquency Prevention 3 Credit(s).

• CJU 406 - Probation, Parole, and Community Corrections 3 Credit(s).
  OR
• CJU 311 - Restorative Justice 3 Credit(s).
  OR
• CJU 361 - Criminal Justice Administration and Leadership 3 Credit(s).

• PSY 320 - Abnormal Psychology 3 Credit(s).
• PSY 348 - Techniques of Counseling 3 Credit(s).
• SOC 202 - Social Problems 3 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Criminal Justice, Forensic Investigation Emphasis, B.A. or B.S.

Criminal Justice

The Criminal Justice Program is designed to prepare students for careers in law, law enforcement, corrections, and social science research. Conceived with the idea that criminal justice professionals will benefit from a strong liberal arts education, the program stresses theory and policy analysis combined with professional experience. A Ferrum College criminal justice graduate will have strong oral and written communication skills as well as the ability to think critically and solve problems while recognizing the importance of high ethical standards.

Experiential Component (Complete 1 of the Following Courses:)

• CJU 499 - Internship 3 Credit(s).
• SOC 391 - Directed Study in Sociology 1-3 Credit(s).

Liberal Arts Requirements (6 Credit Hours)

• MTH 107 - Introduction to Finite Mathematics 3 Credit(s). OR
• MTH 111 - Pre-Calculus I 3 Credit(s).

• SOC 101 - General Sociology 3 Credit(s).

Program Specific Requirements (6 Credit Hours)
• MTH 208 - Introductory Statistics 3 Credit(s).
• PSY 201 - General Psychology 3 Credit(s).

B.S. Degree Requires Two Courses from the Following (6 Credit Hours)

• ACC 110 - Introduction to Accounting 3 Credit(s). OR
• ACC 201 - Principles of Accounting I 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• COM 201 - Public Speaking 3 Credit(s). OR
• THA 222 - Voice and Diction 3 Credit(s).
• CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s). OR
• CSC 125 - Concepts in Computer Information Systems 3 Credit(s). OR
• BUS 230 - Computer Applications 3 Credit(s).
• ENG 461 - Professional Writing 3 Credit(s).

B.A. Additional Degree Requirements (6 Credit Hours)

Six hours of foreign language at the 200 level or higher.

Common Required Courses (33 Credit Hours)

• CJU 201 - Introduction to Criminal Justice 3 Credit(s).
• CJU 204 - Fundamentals of Corrections 3 Credit(s).
• CJU 220 - Criminal Law 3 Credit(s).
• CJU 300 - Dilemmas and Decision Making in Criminal Justice 3 Credit(s).
• CJU 314 - Courts and the Judicial Process 3 Credit(s).
• CJU 320 - Deviance and Social Control 3 Credit(s). OR
• SOC 320 - Deviance and Social Control 3 Credit(s).
• CJU 370 - Research Methods & Statistics in Criminal Justice 3 Credit(s).
• CJU 498 - Seminar 3 Credit(s).
• PSC 202 - State and Local Government 3 Credit(s).
• PSY 230 - Social Psychology 3 Credit(s).
• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).

Forensic Investigation Emphasis

The forensic investigation emphasis helps prepare students with the knowledge, skills, and ethical principles necessary to process and report on physical evidence at a crime scene or in connection with a civil investigation. The program is designed to help students understand both the theory and practice of the forensic disciplines and of police work. Based on national guidelines, the curriculum provides a basic foundation in investigative, scientific, and laboratory-based forensics and introduces students to the various disciplines that make up the forensic collaborative work-group. Students may pursue further education or employment in the field.
Required Emphasis Courses (24 Credit Hours)

- CJU 330 - Criminal Investigation 3 Credit(s).
- CJU 335 - Introduction to Forensic Investigations 3 Credit(s).

Elective Courses (Choose 6 Courses)

Pick any six courses from the following (no more than 3 courses from CJU)

- CHM 331 - Forensic Science 4 Credit(s).
- CJU 250 - Friction Ridge Analysis 3 Credit(s).
- CJU 340 - Interviewing and Crisis Intervention 3 Credit(s).
- CJU 375 - Crime Scene Photography 3 Credit(s).
- CJU 460 - Criminal Profiling 3 Credit(s).
- CSC 290, 390 or 490 - Selected Topics in Computer Science 1-3 Credit(s). Data, Cybersecurity and You (This topic only)
- GEO 221 - Geographic Information Systems 4 Credit(s).
- PSY 335 - Psychological and Educational Assessment 3 Credit(s).
- PSY 348 - Techniques of Counseling 3 Credit(s).
- SCI 144 - Science of Crime 2 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

History (Minor Required), B.A. or B.S.

History is the study of the interaction of cultural, geographical, political, and economic forces and how they have shaped the world of the past and present. Thus the major in history provides a solid preparation for career and personal endeavor in the contemporary world. The major offers excellent background for students preparing for law school, graduate study, teaching, and public service. Students interested in graduate school are strongly encouraged to pursue the B.A. degree option.

Ferrum College offers teaching licensure in Social Studies (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Permalink-Social Studies)

Experiential Component (Complete the Following Courses:)

- HIS 498 - Senior Seminar 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

Required for both the B.A. or B.S. Degree:
• COM 201 - Public Speaking 3 Credit(s).

History B.A. Degree Program Specific (6 Credit Hours)

• Choose a Foreign Language (200-level or above) Credit Hour(s): 6

History B.S. Degree Program Specific (6 Credit Hours)

Choose 6 credit hours from the following list:

• PSC 101 - American National Government and Politics 3 Credit(s).
• PSC 202 - State and Local Government 3 Credit(s).
• PSC 203 - International Politics 3 Credit(s).
• PSC 205 - Comparative Government 3 Credit(s).

Required Courses (18 Credit Hours)

• HIS 101 - Western Civilization I 3 Credit(s).
  OR
• HIS 111 - World History to 1500 3 Credit(s).

• HIS 102 - Western Civilization II 3 Credit(s).
  OR
• HIS 112 - World History after 1500 3 Credit(s).

• HIS 201 - American History I 3 Credit(s).
• HIS 202 - American History II 3 Credit(s).
• HIS 398 - Historiography 3 Credit(s).
• HIS 498 - Senior Seminar 3 Credit(s). (Experiential Component)

U.S. History Electives (6 Credit Hours)

Choose 6 credit hours from the following:

• HIS 302 - History of Sports in the US 3 Credit(s).
• HIS 303 - The American Revolution 3 Credit(s).
• HIS 305 - The American Civil War 3 Credit(s).
• HIS 306 - Women in Twentieth-Century America 3 Credit(s).
• HIS 307 - American Crime: Criminalization and Punishment in the 20th Century 3 Credit(s).
• HIS 308 - African American History 3 Credit(s).
• HIS 309 - The United States 1900-1945 3 Credit(s).
• HIS 310 - The United States since 1945 3 Credit(s).
• HIS 316 - Virginia History 3 Credit(s).
• HIS 318 - The American West in History and Memory 3 Credit(s).

European History Electives (6 Credit Hours)
Choose 6 credit hours from the following:

- HIS 335 - Classical Antiquity Greco-Roman History 3 Credit(s).
- HIS 341 - England from Island to Empire: Early Modern British History, 1485-1775 3 Credit(s).
- HIS 344 - The Scientific Revolution 3 Credit(s).
- HON 210 - Reason and the Individual 3 Credit(s).

Non-Western History (6 Credit Hours)

Choose 6 hours from the following:

- HIS 357 - Russian History 3 Credit(s).
- HIS 360 - The History of Travel and Tourism 3 Credit(s).
- HIS 371 - China 3 Credit(s).
- HIS 373 - India 3 Credit(s).
- HIS 374 - Southeast Asia 3 Credit(s).
- HIS 376 - The History of Islam 3 Credit(s).
- HIS 378 - North Africa 3 Credit(s).
- HIS 380 - Latin American History 3 Credit(s).
- HIS 383 - Caribbean Environmental History 3 Credit(s).

Major Electives (3 Credit Hours @ 300-400 level)

- Choose any 300/400-level history course not used to satisfy the above requirements. HIS 220 may also be used as an exception with the reminder that the student must achieve a total of 30 hours at the 300/400 level.

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Liberal Studies, B.A. or B.S.

Liberal Studies provides the possibility for a program of study to meet educational goals not exactly satisfied by other academic programs. There are possibilities of three or more minors which may be developed into a coherent program of study. Students prepare a statement in which they list their educational objectives and explain how a particular combination of minors will help them to achieve them. A degree plan is developed and the complete proposal is signed by the faculty advisor who will oversee the program. The form needed to begin this process may be obtained from the Provost Office. It is returned, by the student, to the Provost for final approval before being delivered to the Office of the Registrar. A 2.0 GPA is required in each minor for graduation.

The Experiential Component requirements are listed in the Catalog for each major. For this major, the Experiential Component must be chosen from those listed in the majors that parallel one of the student's three Liberal Studies Emphasis areas.

A minimum of 54 hours is required to complete the Liberal Studies major, with a total of thirty hours of 300-400 level coursework.
Media and Communication (Minor Required), B.A. or B.S.

The Media and Communication program is for students who are interested in pursuing careers in broadcasting, multimedia journalism, public relations, corporate communications, audio recording and reproduction, film making, and online media creation. Students are introduced to the foundations of communication, communication research, media production values, and an array of media production skills that will enable them to create high quality media-borne messages.

Students may elect an internship in their junior year. Students qualify for an internship by receiving the recommendations of two faculty members, by earning a 2.5 overall grade point average, and by successfully completing an interview with the Media and Communication program coordinator, which may include other faculty members. Students are expected to earn a “C” or higher in each of their courses within the major.

Experiential Component (Complete 3 Credit Hours from Following Courses:)

- COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).
- COM 236, 237 to 436, 437 - Video Production Practicum 1 Credit(s).
- COM 499 - Internship 3 Credit(s).
- ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).
- ENG 141, 142 to 441, 442 - Creative Arts Practicum 1 Credit(s).

Liberal Arts Requirements (3-6 Credits)

- PSY 201 - General Psychology 3 Credit(s).

B.S. Degree additionally requires:
- MTH 107 - Introduction to Finite Mathematics 3 Credit(s).

Program Specific Requirements

B. A. Degree (6 Credit Hours)

- Six hours of foreign language (200 level or above) Credit Hour(s): 6

B. S. Degree (3 Credit Hours)

- ANA 271 - Business Statistics with Statistical Software 3 Credit(s).

Required Courses (24 Credit Hours)

- COM 101 - Introduction to Mass Communication 3 Credit(s).
- COM 223 - Basic Audio Recording 3 Credit(s).
- COM 235 - Fundamental of TV and Video Production 3 Credit(s).
• COM 304 - Communication Research 3 Credit(s).
• COM 369 - Mass Media and Behavior 3 Credit(s).
• COM 433 - Media Scriptwriting 3 Credit(s).
• COM 483 - Senior Synthesis Seminar 3 Credit(s).
• ENG 310 - Media Law and Ethics 3 Credit(s).

Elective Courses (Choose 12 Credit Hours from the Following List)

Choices must be approved by the student's advisor. At least six hours must be from the 300-400 level.

• ART 215 - Photoshop 3 Credit(s).
• ART 217 - Introduction to Photography 3 Credit(s).
• ART 222 - Basic Computer Graphics 3 Credit(s).
• ART 232 - Web Design X 3 Credit(s).
• ART 317 - Intermediate Photography 3 Credit(s).
• ART 322 - Graphic Print Media 3 Credit(s).
• ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).
• ART 417 - Advanced Photography 3 Credit(s).
• BUS 230 - Computer Applications 3 Credit(s).
• BUS 304 - Advertising 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).
• COM 190, 290, 390 or 490 - Special Topics in Media and Communication 3 Credit(s).
• COM 211 - Radio Broadcasting Methods 3 Credit(s).
• COM 271 - On-line Media 3 Credit(s).
• COM 236, 237 to 436, 437 - Video Production Practicum 1 Credit(s).
• COM 323 - Stage Audio 3 Credit(s).
• COM 335 - Advanced Video Production 3 Credit(s).
• COM 359 - Documentary Photography 3 Credit(s).
• COM 499 - Internship 3 Credit(s).
• CSC 100 - Computer Literacy 3 Credit(s).
• CSC 230 - Web Design 3 Credit(s).
• ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).
• ENG 141, 142 to 441, 442 - Creative Arts Practicum 1 Credit(s).
• ENG 221 - Introduction to Film 3 Credit(s).
• ENG 311 - News Writing and Editing 3 Credit(s).
• ENG 312 - Feature Writing and Production 3 Credit(s).
• ENG 315 - Media Management 3 Credit(s).
• ENG 338 - Rhetoric 3 Credit(s).
• ENG 433 - Small Group Communication 3 Credit(s).
• ENG 461 - Professional Writing 3 Credit(s).
• HON 213 - Media and Violence 3 Credit(s).
• PSC 308 - Media and Politics 3 Credit(s).
• REL 216 - Religion in Film 3 Credit(s).
• THA 203 - Video Production Workshop 3 Credit(s).
• THA 222 - Voice and Diction 3 Credit(s).
Total Credit Hours Required in Major (Minor Required): 36

Total Credit Hours Required in Degree: 121

Political Science, Democracy, Justice and Civic Engagement Emphasis, B.A. or B.S.

Political Science

Political science is the study of governments, how they are organized, what they do, and how they deal with other governments. Every citizen of a democracy should know something about his/her government, and other governments, and majoring in political science also opens up many career opportunities. Political Science is an ideal major for a student intending to go to law school, and is also good preparation for government work, business, education, and other fields.

The Democracy, Justice, and Civic Engagement emphasis are of the Political Science program will stress hands-on, experiential learning and exposure to a variety of disciplines that examine the junction of democracy, justice and civic engagement. Students interested in careers in activism, community organizing or the legal profession may benefit from taking this emphasis area of the major.

Experiential Component (Complete 1 of the Following Courses:)

- PSC 399 - Citizenship and Service Learning 3 Credit(s).

Program Specific Requirements

B.A. Degree Program Specific (6 Credit Hours)

- 6 hours of Foreign Language at 200-level or above

B.S. Degree Program Specific (Choose 2 Courses)

- HIS 101 - Western Civilization I 3 Credit(s).
- HIS 102 - Western Civilization II 3 Credit(s).
- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).

Common Required Courses (12 Credit Hours)

- PSC 101 - American National Government and Politics 3 Credit(s).
- PSC 202 - State and Local Government 3 Credit(s).
  OR  
- PSC 203 - International Politics 3 Credit(s).
• PSC 205 - Comparative Government \(3\) Credit(s).
• PSC 399 - Citizenship and Service Learning \(3\) Credit(s).
• SSC 251 - Introduction to Social Science Research \(3\) Credit(s).

Democracy, Justice and Civic Engagement Emphasis

Additional Required Courses (6 Credit Hours)

• DJC 496 - Individual or Collaborative Study \(3\) Credit(s).
• DJC 498 - Democracy, Justice and Civic Engagement Senior Seminar \(3\) Credit(s).

Government Major Electives (Choose 6 Credit Hours from the Following List)

• PSC 308 - Media and Politics \(3\) Credit(s).
• PSC 310 - Political Parties and Groups in the United States \(3\) Credit(s).
• PSC 324 - U.S. Constitutional Law \(3\) Credit(s).
• PSC 384 - The President and Congress \(3\) Credit(s).
• PSC 420 - War and Peacekeeping: U.S. National Security Policy \(3\) Credit(s).

Comparative and International Relations Major Electives (Choose 6 Credit Hours from the Following List)

• PSC 302 - Political Geography \(3\) Credit(s).
• PSC 306 - Politics and Human Rights \(3\) Credit(s).
• PSC 366 - Political Evil \(3\) Credit(s).
• PSC 435 - Political Economy of Development \(3\) Credit(s).
• PSC 440 - International Law and Organization \(3\) Credit(s).

Theory and Methods Major Electives (Choose 6 Credit Hours from the Following List)

• PSC 300 - Research Methods \(3\) Credit(s).
• PSC 303 - Political Theory from Socrates to Locke \(3\) Credit(s).
• PSC 304 - Modern Ideologies \(3\) Credit(s).
• PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality \(3\) Credit(s).
• PSC 402 - Policy Analysis \(3\) Credit(s).

DJCE Foundational Courses (Choose 6 Credit Hours from the Following List)

• ENG 338 - Rhetoric \(3\) Credit(s).
• PHI 211 - Ethics \(3\) Credit(s).
• PSC 300 - Research Methods 3 Credit(s).
  OR
• SOC 470 - Social Sciences Research 3 Credit(s).

• PSY 201 - General Psychology 3 Credit(s).
• SOC 202 - Social Problems 3 Credit(s).

Legal, Policy and Advocacy Electives (Choose 6 Credit Hours from the Following List)

• ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
• CJU 320 - Deviance and Social Control 3 Credit(s).
• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
• ECO 430 - Development Economics 3 Credit(s).
• PSC 324 - U.S. Constitutional Law 3 Credit(s).
• PSC 435 - Political Economy of Development 3 Credit(s).
• PSC 440 - International Law and Organization 3 Credit(s).
• SWK 320 - Social Welfare Policy: History, Philosophy, and Current Policies 3 Credit(s).

Groups, Cultures, and Nationalities Electives (Choose 6 Credit Hours from the Following List)

• HIS 380 - Latin American History 3 Credit(s).
• PSC 205 - Comparative Government 3 Credit(s).
• PSC 304 - Modern Ideologies 3 Credit(s).
• PSC 306 - Politics and Human Rights 3 Credit(s).
• PSY 230 - Social Psychology 3 Credit(s).
• REL 151 - World Religions 3 Credit(s).
• REL 245 - Religion and Public Life 3 Credit(s).
• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
• SOC 310 - Social Class and Inequality 3 Credit(s).
• SOC 340 - Collective Behavior and Social Movements 3 Credit(s).

Total Credit Hours Required in Major: 54

Total Credit Hours Required in Degree: 121

Political Science, Political Science Emphasis, B.A. or B.S.

Political Science
Political science is the study of governments, how they are organized, what they do, and how they deal with other governments. Every citizen of a democracy should know something about his/her government, and other governments, and majoring in political science also opens up many career opportunities. Political Science is an ideal major for a student intending to go to law school, and is also good preparation for government work, business, education, and other fields.

The Democracy, Justice, and Civic Engagement emphasis are of the Political Science program will stress hands-on, experiential learning and exposure to a variety of disciplines that examine the junction of democracy, justice and civic engagement. Students interested in careers in activism, community organizing or the legal profession may benefit from taking this emphasis area of the major.

Experiential Component (Complete 1 of the Following Courses:)

- PSC 399 - Citizenship and Service Learning 3 Credit(s).

Program Specific Requirements

B.A. Degree Program Specific (6 Credit Hours)

- 6 hours of Foreign Language at 200-level or above

B.S. Degree Program Specific (Choose 2 Courses)

- HIS 101 - Western Civilization I 3 Credit(s).
- HIS 102 - Western Civilization II 3 Credit(s).
- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).

Common Required Courses (12 Credit Hours)

- PSC 101 - American National Government and Politics 3 Credit(s).
- PSC 202 - State and Local Government 3 Credit(s).
  OR
- PSC 203 - International Politics 3 Credit(s).
  OR
- PSC 205 - Comparative Government 3 Credit(s).
- PSC 399 - Citizenship and Service Learning 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).

Political Science Emphasis

Additional Required Course

- PSC 498 - Capstone in Political Science 3 Credit(s).
Government Major Electives (Choose 6 Credit Hours from the Following List)

- PSC 308 - Media and Politics 3 Credit(s).
- PSC 310 - Political Parties and Groups in the United States 3 Credit(s).
- PSC 324 - U.S. Constitutional Law 3 Credit(s).
- PSC 384 - The President and Congress 3 Credit(s). *
- PSC 420 - War and Peacekeeping: U.S. National Security Policy 3 Credit(s).

Comparative and International Relations Major Electives (Choose 6 Credit Hours from the Following List)

- PSC 302 - Political Geography 3 Credit(s).
- PSC 306 - Politics and Human Rights 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).
- PSC 435 - Political Economy of Development 3 Credit(s).
- PSC 440 - International Law and Organization 3 Credit(s). **

Theory and Methods Major Electives (Choose 6 Credit Hours from the Following List)

- PSC 300 - Research Methods 3 Credit(s).
- PSC 303 - Political Theory from Socrates to Locke 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).
- PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality 3 Credit(s).
- PSC 402 - Policy Analysis 3 Credit(s).

Other Major Electives (Choose 6 Credit Hours from the Following List)

May be any Political Science courses not used to satisfy the above requirements.

- PHI 101 - Logic 3 Credit(s).
- PSC 207 - Special Issues in Political Science 3 Credit(s).
- PSC 491 - Topics in Political Science 3 Credit(s).
- PSC 496 - Individual or Collaborative Study 1-3 Credit(s).
- PSC 499 - Internship 3, 6 or 9 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Psychology (Minor Required), B.S.
Psychology is the scientific study of behavior and mental processes. Baccalaureate majors receive a broad background in the science of psychology which prepares them to enter graduate or professional schools or prepares them for careers in which knowledge of human thought and behavior is essential. In the junior and senior years, students may elect field placement and internship experiences which integrate classroom learning with practical professional experience and which enhance preparedness for employment or graduate training. Students qualify for an internship by earning a 2.5 grade point average; and by successfully completing an interview with a departmental faculty member.

Experiential Component (Complete 1 of the Following Courses:)

- PSY 299 - Field Experience 1-2 Credit(s).
- PSY 307 - Advanced Research Methods and Statistics 3 Credit(s).
- PSY 496 - Directed Study in Psychology 1-2 Credit(s).
- PSY 499 - Internship 3, 6 or 9 Credit(s).

Liberal Arts Requirements (3-6 Credit Hours)

- MTH 107 - Introduction to Finite Mathematics 3 Credit(s), or higher
- MTH 208 - Introductory Statistics 3 Credit(s). is highly recommended

Required Courses (18 Credit Hours)

- PSY 201 - General Psychology 3 Credit(s).
- PSY 297 - Professional Seminar: Introduction to Field of Psychology 1 Credit(s).
- PSY 306 - Intro to Research Methods and Statistics 3 Credit(s).
- PSY 307 - Advanced Research Methods and Statistics 3 Credit(s).
- PSY 333 - Biological Psychology 3 Credit(s).
- PSY 398 - Professional Seminar: Legal and Ethical Issues in Psychology 2 Credit(s).
- PSY 498 - Professional Seminar: Capstone Experience in Psychology 3 Credit(s).

Major Electives (Choose 21 Hours from the Following:)

- PSY 210 - Human Growth and Development - Lifespan 3 Credit(s).
- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- PSY 212 - Human Growth and Development – Adulthood 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- PSY 298 - Pre-Professional Placement 3 Credit(s).
- PSY 299 - Field Experience 1-2 Credit(s).
- PSY 314 - Learning 3 Credit(s).
- PSY 320 - Abnormal Psychology 3 Credit(s).
- PSY 325 - Psychopathology of Childhood 3 Credit(s).
- PSY 328 - Health Psychology 3 Credit(s).
- PSY 331 - Cognitive Development 3 Credit(s).
- PSY 332 - Cognitive Psychology 3 Credit(s).
- PSY 335 - Psychological and Educational Assessment 3 Credit(s).
- PSY 340 - Personality 3 Credit(s).
- PSY 345 - Sport Psychology 3 Credit(s).
• PSY 348 - Techniques of Counseling 3 Credit(s).
• PSY 355 - Science of Sleep 3 Credit(s).
• PSY 438 - Topics in Psychology 3 Credit(s).
• PSY 450 - History and Systems of Psychology 3 Credit(s).
• PSY 496 - Directed Study in Psychology 1-2 Credit(s).
• PSY 499 - Internship 3, 6 or 9 Credit(s).
• SSC 206 - APA Style Writing 2 Credit(s).

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Prerequisites: PSY 201 is normally a prerequisite for all other psychology courses. For PSY 211, PSY 212, and PSY 230, permission of the instructor may be substituted for the PSY 201 prerequisite. There are additional prerequisites for PSY 306-PSY 307, PSY 348, PSY 450, PSY 496 and PSY 498 (see Course Descriptions).

Sociology, Public Sociology Emphasis, B.A. or B.S.

Sociology

Sociology is the study of basic traits, values and beliefs and how the intersection of these concepts influence behavior of individuals, groups and society. The bachelor's degree is designed to prepare students to confront the basic challenge of understanding ourselves and others more fully. Sociology students will develop a sociological perspective by actively questioning the way our society operates and why the social structure provides privilege for some while disadvantaging others. Through completion of a well-rounded liberal arts core, courses in comparative theory, historic and present-day policy, and applied research dealing with human subjects, sociology majors will be prepared to succeed in career paths or graduate schools which demand a flexible, resourceful, critically thinking individual.

Sociology majors must participate in a three credit internship with a community agency to practice strong communication skills, critical thinking and ethical problem solving. While engaged in this internship they will identify a topic related to the needs and/or goals of the agency to be investigated through scientific research through a combination of concurrent courses: SOC 391, SOC 370 Fall, and SOC 470 (a capstone class) in their senior year. Students will meet the experiential component for the major by successfully completing SOC 391. This undergraduate program offers two emphasis areas – preparing students to engage in Public Sociology or Research Development

Experiential Component (Complete the Following Course:)

• SOC 391 - Directed Study in Sociology 1-3 Credit(s).

Liberal Arts Requirements

B.A. Program Specific Requirements (12 Credit Hours)

• CSC 100 - Computer Literacy 3 Credit(s).
  OR
• CSC 125 - Concepts in Computer Information Systems 3 Credit(s).

• MTH 208 - Introductory Statistics 3 Credit(s).

• Six credit hours of foreign language at the 200 level Credit Hour(s): 6

B.S. Program Specific Requirements (12 Credit Hours)

• CSC 100 - Computer Literacy 3 Credit(s).
  OR
  • CSC 125 - Concepts in Computer Information Systems 3 Credit(s).

• MTH 208 - Introductory Statistics 3 Credit(s).

• PSY 230 - Social Psychology 3 Credit(s).

• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

Common Required Courses (33 Credit Hours)

(Regardless of degree or emphasis)

• HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).

• SOC 202 - Social Problems 3 Credit(s).

• SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).

• SOC 207 - Sociology of Sex and Gender Roles 3 Credit(s).

• SOC 301 - Classical Social Theory 3 Credit(s).

• SOC 310 - Social Class and Inequality 3 Credit(s).

• SOC 340 - Collective Behavior and Social Movements 3 Credit(s).

• SOC 370 - Introduction to Field Based Case Study Research 3 Credit(s).

• SOC 391 - Directed Study in Sociology 1-3 Credit(s).

• SOC 401 - Survey of Modern Era Social Theory 3 Credit(s).

• SOC 470 - Social Sciences Research 3 Credit(s).

Public Sociology Emphasis (15 Credit Hours)

From the following: Complete 15 credits by selecting at least 6 hours from SOC courses at the 300 level or above, and 9 hours from other disciplines:

• CJU 201 - Introduction to Criminal Justice 3 Credit(s).

• CJU 310 - Victimology 3 Credit(s).

• CJU 320 - Deviance and Social Control 3 Credit(s).

• CJU 311 - Restorative Justice 3 Credit(s).

• HUM 302 - African-American Studies: Forty Years and a Dream 3 Credit(s).

• PSC 202 - State and Local Government 3 Credit(s).

• PSC 203 - International Politics 3 Credit(s).

• PSC 306 - Politics and Human Rights 3 Credit(s).

• PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality 3 Credit(s).

• SOC 205 - Marriage and the Family 3 Credit(s).

• SOC 303 - Cultural Diversity Applications in Schools and Society 3 Credit(s).

• SOC 330 - Organizations and Behavior 3 Credit(s).
- SOC 333 - Population Dynamics 3 Credit(s).
- SOC 450 - Changing Roles in the Life Course 3 Credit(s).
- SSC 301 - Social Entrepreneurial Leadership 3 Credit(s).
- SWK 201 - Introduction to Social Work 3 Credit(s).
- SWK 355 - Child Welfare Systems and Services 3 Credit(s).

Total Credit Hours Required for Major (Minor Required): 48

Total Credit Hours Required in Degree: 121

**Sociology, Research Development Emphasis, B.A. or B.S.**

**Sociology**

Sociology is the study of basic traits, values and beliefs and how the intersection of these concepts influence behavior of individuals, groups and society. The bachelor's degree is designed to prepare students to confront the basic challenge of understanding ourselves and others more fully. Sociology students will develop a sociological perspective by actively questioning the way our society operates and why the social structure provides privilege for some while disadvantaging others. Through completion of a well-rounded liberal arts core, courses in comparative theory, historic and present-day policy, and applied research dealing with human subjects, sociology majors will be prepared to succeed in career paths or graduate schools which demand a flexible, resourceful, critically thinking individual.

Sociology majors must participate in a three credit internship with a community agency to practice strong communication skills, critical thinking and ethical problem solving. While engaged in this internship they will identify a topic related to the needs and/or goals of the agency to be investigated through scientific research through a combination of concurrent courses: SOC 391, SOC 370 Fall, and SOC 470 (a capstone class) in their senior year. Students will meet the experiential component for the major by successfully completing SOC 391. This undergraduate program offers two emphasis areas – preparing students to engage in Public Sociology or Research Development

**Experiential Component (Complete the Following Course:)**

- SOC 391 - Directed Study in Sociology 1-3 Credit(s).

**Liberal Arts Requirements**

**B.A. Program Specific Requirements (12 Credit Hours)**

- CSC 100 - Computer Literacy 3 Credit(s).
  OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).
- Six credit hours of foreign language at the 200 level Credit Hour(s): 6
B.S. Program Specific Requirements (12 Credit Hours)

- CSC 100 - Computer Literacy 3 Credit(s).
- OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).
- PSY 230 - Social Psychology 3 Credit(s).
- SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

Common Required Courses (33 Credit Hours)

(Regardless of degree or emphasis)

- HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
- SOC 202 - Social Problems 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 207 - Sociology of Sex and Gender Roles 3 Credit(s).
- SOC 301 - Classical Social Theory 3 Credit(s).
- SOC 310 - Social Class and Inequality 3 Credit(s).
- SOC 340 - Collective Behavior and Social Movements 3 Credit(s).
- SOC 370 - Introduction to Field Based Case Study Research 3 Credit(s).
- SOC 391 - Directed Study in Sociology 1-3 Credit(s).
- SOC 401 - Survey of Modern Era Social Theory 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).

Research Development Emphasis (15 Credit Hours)

From the following: Complete 15 credits by selecting at least 6 hours from SOC courses at the 300 level or above, and 9 hours from other disciplines:

- CJU 320 - Deviance and Social Control 3 Credit(s).
- HUM 302 - African-American Studies: Forty Years and a Dream 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).
- PSC 304 - Modern Ideologies 3 Credit(s).
- PSC 366 - Political Evil 3 Credit(s).
- SOC 205 - Marriage and the Family 3 Credit(s).
- SOC 330 - Organizations and Behavior 3 Credit(s).
- SOC 333 - Population Dynamics 3 Credit(s).
- SOC 450 - Changing Roles in the Life Course 3 Credit(s).
- SSC 290 - Stewardship toward Sustainability Immersion 3 Credit(s).

Total Credit Hours Required for Major (Minor Required): 48

Total Credit Hours Required in Degree: 121
Bachelor of Science

Accounting, B.S.

The accounting major is an interdisciplinary major designed to prepare students with the knowledge, the analytical ability and the skills to succeed in the managerial, governmental, non-profit or systems fields of accounting, or in graduate school. It is supported by a strong liberal arts education and an extensive selection of courses in business and economics. It is a very demanding and challenging major; students majoring in accounting are expected to achieve grades of "C" or better in their accounting courses in order to continue in the program.

Experiential Component (Complete 2 Credit Hours from Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- ACC 499 - Accounting Internship 3 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 499 - Internship 3 Credit(s).

Liberal Arts and Program Specific Requirements (9 Credit Hours)

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses for the Major (39 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ACC 301 - Managerial Accounting 3 Credit(s).
- ACC 302 - Intermediate Accounting I 3 Credit(s).
- ACC 303 - Intermediate Accounting II 3 Credit(s).
- ACC 403 - Auditing 3 Credit(s).
- ACC 405 - Taxation 3 Credit(s).
- ACC 498 - Senior Seminar in Accounting 3 Credit(s).
- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).

Choose Four of the Following Courses (12 Credit Hours)

At least two must be accounting courses and one must be either ACC 408 or BUS 325.

- ACC 304 - Advanced Accounting Theory 3 Credit(s).
- ACC 306 - Government and Nonprofit Accounting 3 Credit(s).
- ACC 380 or 480 - Topics in Accounting Variable hours Credit(s).
- ACC 401 - Advanced Studies in Cost Accounting 3 Credit(s).
- ACC 407 - International Accounting 3 Credit(s).
- ACC 408 - Accounting Software Applications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 314 - Advanced Corporate Finance 3 Credit(s).
- BUS 325 - Advanced Computer Applications 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
- BUS 331 - Production/Operations Management 3 Credit(s).
- ECO 313 - Money and Banking 3 Credit(s).
- ECO 400 - International Finance 3 Credit(s).
- ECO 405 - Government and Business 3 Credit(s).

Total Credit Hours Required in Major: 53-54

Total Credit Hours Required in Degree: 121

Experiential Component Hours 2 – 3 (are counted in the major hours)

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.250 grade point average is a prerequisite for the internship.

Students have the opportunity to enroll in specialized courses in accounting.

Agricultural Sciences, Agribusiness Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad “hands-on” approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.
Experiential Component (Complete 1 of the Following Courses:)

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Agribusiness Emphasis

Required Courses (29-30 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
  OR
The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.

Experiential Component (Complete 1 of the Following Courses:)

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s).
  OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Animal Science Emphasis

Required Courses (34 Credit Hours)

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ASI 232 - Livestock Evaluation and Judging 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).

Choose TWO from the Following Courses

- CRP 301 - Principles of Field and Forage Crop Production 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- HOR 321 - Plant Propagation 4 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Total Credit Hours Required for Agricultural Sciences with Animal Science Emphasis: 55
Total Credit Hours Required in Degree: 121

Agriculture Education Endorsement

Ferrum College also offers teacher licensure in vocational agriculture (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education Minor). Besides the Liberal Arts and Program Specific Requirements and the required major common courses in agricultural sciences, Agricultural Sciences majors seeking a secondary teacher endorsement must complete the following courses in either Animal Science or Horticulture emphasis areas:

Animal Science

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ASI 232 - Livestock Evaluation and Judging 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 419 - Plant Physiology and Biotechnology 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Agricultural Sciences, Crop Science Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.

Experiential Component (Complete 1 of the Following Courses:)

• AGS 110 - Agriculture Issues 3 Credit(s).
• AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
• NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s).
  OR
• BIO 111 - Introductory Biology II 4 Credit(s).

• ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
• MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (21 Credit Hours)

• AGS 110 - Agriculture Issues 3 Credit(s). OR
• HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).

• AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
• AGS 417 - Farm Business Management 3 Credit(s).
• BIO 202 - Introduction to Plant Science 4 Credit(s).
• NSM 398 - Junior Seminar 3 Credit(s).
• NSM 498 - Senior Seminar 3 Credit(s).
• NSM 399 - Professional Preparation 1 Credit(s).
• NSM 499 - Internship 3 Credit(s).

Crop Science Emphasis

Required Courses (36 Credit Hours)

• AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
• CRP 301 - Principles of Field and Forage Crop Production 4 Credit(s).
• CRP 315 - Soil Science and Management 4 Credit(s).
• ASI 201 - Introduction to Animal Science 4 Credit(s).
• BIO 419 - Plant Physiology and Biotechnology 4 Credit(s).
• HOR 415 - Plant Diseases 4 Credit(s).
• HOR 418 - Plant Pest Management 4 Credit(s).

Choose TWO from the Following Courses
• HOR 321 - Plant Propagation 4 Credit(s).
• ASI 302 - Animal Nutrition 4 Credit(s).
• ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
• ASI 414 - Domestic Animal Reproduction 4 Credit(s).

Total Credit Hours Required for Agricultural Sciences with Crop Science Emphasis: 57

Total Credit Hours Required in Degree: 121

Agricultural Sciences, Equine Studies Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.

Experiential Component (Complete 1 of the Following Courses:)

• AGS 110 - Agriculture Issues 3 Credit(s).
• AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
• NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)
- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).

- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).

**Common Required Courses (21 Credit Hours)**

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).

- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

**Equine Studies Emphasis**

**Required Courses (25 Credit Hours)**

- ASI 201 - Introduction to Animal Science 4 Credit(s).
- ASI 205 - Horse Science 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- ASI 325 - Stable Management 3 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).

**Additional Requirements for Equine Studies**

**Liberal Arts Requirements (3 Credit Hours)**

- ECO 201 - Principles of Macroeconomics 3 Credit(s).

**Program Specific Requirements (3 Credit Hours)**

- ACC 201 - Principles of Accounting I 3 Credit(s).

**Total Credit Hours Required for Agricultural Sciences with Equine Studies Emphasis: 46**
Total Credit Hours Required in Degree: 121

Agricultural Sciences, Horticulture Emphasis, B.S.

Agricultural Sciences

The Agricultural Sciences program provides students with a diversified four-year curriculum and the opportunity for practical experience. The curriculum stresses the theory and practice of animal science, agronomy, agribusiness, and horticulture. The curriculum includes numerous "hands-on" experiences, developing practical skills in students. A required internship furthers this facet by placing students in situations of responsibility and creativity. In addition, the Agricultural Sciences program at Ferrum College is unique among collegiate agricultural programs in that it is firmly integrated within the School of Natural Sciences and Mathematics, providing students with the opportunity to study within the broader contexts of biology, chemistry, and environmental and societal issues. This broad approach, combined with the strong liberal arts base, prepares graduates for a wide range of career opportunities.

Agricultural Sciences graduates find employment in farm management and operation, agricultural extension and natural resources conservation agencies, agricultural supply businesses, marketing and distribution of farm products, teaching vocational agriculture, agricultural creditors, agricultural research, and numerous other areas. The broad "hands-on" approach and internship experience are invaluable preparations for this diverse industry. Students may choose emphasis areas within the program that allow them to concentrate their study in Agribusiness, Crop Science, Animal Science, Equine Studies or Horticulture.

Agricultural Sciences is comprised of five emphasis areas: Agribusiness, Crop Science, Animal Science, Equine Studies and Horticulture.

Experiential Component (Complete 1 of the Following Courses):

- AGS 110 - Agriculture Issues 3 Credit(s).
- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts Requirements (8 Credit Hours)

- CHM 103 - General Chemistry 1 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology 1 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
  OR
- MTH 208 - Introductory Statistics 3 Credit(s).
Common Required Courses (21 Credit Hours)

- AGS 110 - Agriculture Issues 3 Credit(s). OR
- HON 217 - Countdown 2050: Science Literacy in the Anthropocene 3 Credit(s).

- AGS 180, 181 to 480, 481 - Practicum 1 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Horticulture Emphasis

Required Courses (35 Credit Hours)

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
  OR
- BIO 305 - Introductory Genetics 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 301 - Invertebrate Zoology 4 Credit(s).
- BIO 419 - Plant Physiology and Biotechnology 4 Credit(s).
- HOR 321 - Plant Propagation 4 Credit(s).
- HOR 410 - Greenhouse Management 4 Credit(s).
- HOR 411 - Landscape Design and Management 4 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Total Credit Hours Required for Agricultural Sciences with Horticulture Emphasis: 57

Total Credit Hours Required in Degree: 121

Agriculture Education Endorsement

Ferrum College also offers teacher licensure in vocational agriculture (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must
complete all components of the Teacher Education Minor. (See Teacher Education Minor). Besides the Liberal Arts and Program Specific Requirements and the required major common courses in agricultural sciences, Agricultural Sciences majors seeking a secondary teacher endorsement must complete the following courses in either Animal Science or Horticulture emphasis areas:

Horticulture

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- HOR 321 - Plant Propagation 4 Credit(s).
- HOR 410 - Greenhouse Management 4 Credit(s).
- HOR 411 - Landscape Design and Management 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Biology, B.S.

The Biology curriculum is designed to introduce students to the major areas of the biological sciences and to enable them to gain competence in using the concepts and investigative methods appropriate to each. Students may select a course of study suited to their particular interests with emphases in botany, zoology, cellular biology, or physiology. Students may pursue independent study and research in areas ranging from biotechnology to field research, may assist professors in their investigations, and may serve as laboratory and teaching assistants in the courses. Biology students receive preparation that enables them to enter a variety of professional careers or to continue their studies in graduate and professional schools.

Experiential Component (Complete the Following Courses:)

- BIO 110 - Introductory Biology I 4 Credit(s).
- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 201 - Vertebrate Zoology 4 Credit(s).
- OR
- BIO 301 - Invertebrate Zoology 4 Credit(s).
- OR
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 202 - Introduction to Plant Science 4 Credit(s).
- OR
- BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- OR
- BIO 330 - Cell Biology 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
• MTH 111 - Pre-Calculus I 3 Credit(s).
  OR
• MTH 112 - Pre-Calculus II 3 Credit(s).
  OR
• MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements (8 Credit Hours)

• CHM 301 - Organic Chemistry I 4 Credit(s).

• PHY 201 - General Physics I 4 Credit(s).
  OR
• PHY 203 - Fundamentals of Physics 4 Credit(s).

Required Courses (43-45 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s).
• BIO 111 - Introductory Biology II 4 Credit(s).

• BIO 201 - Vertebrate Zoology 4 Credit(s).
  OR
• BIO 301 - Invertebrate Zoology 4 Credit(s).
  OR
• BIO 254 - Human Anatomy and Physiology I 4 Credit(s).

• BIO 202 - Introduction to Plant Science 4 Credit(s).
  OR
• BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).
  OR
• BIO 311 - Field Botany 4 Credit(s).

• BIO 230 - Introduction to Cell and Molecular Biology 3 Credit(s).
• BIO 305 - Introductory Genetics 4 Credit(s).

• BIO 330 - Cell Biology 4 Credit(s).
  OR
• BIO 303 - Microbiology 4 Credit(s).
  OR
• CHM 315 - Biochemistry 4 Credit(s).

• ESC 203 - Fundamentals of Ecology 4 Credit(s).

• ESC 205 - Tropical and Marine Ecology 4 Credit(s).
  OR
• ESC 206 - Community Ecology of the Southeast 4 Credit(s).
  OR
• ESC 207 - South African Ecology and Culture 4 Credit(s).
  OR
• ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).
OR
• ESC 302 - Conservation Biology 3 Credit(s).
OR
• ESC 321 - Aquatic Ecology 4 Credit(s).

• MTH 208 - Introductory Statistics 3 Credit(s).

OR
• ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).

• NSM 398 - Junior Seminar 3 Credit(s). *
• NSM 498 - Senior Seminar 3 Credit(s). *

Major Electives (12 Credit Hours @ 300-400 level)

12 hours from other BIO or approved Life Science courses all at the 300-400 level:

• ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
• ASI 414 - Domestic Animal Reproduction 4 Credit(s).
• CHM 315 - Biochemistry 4 Credit(s).
• ESC 302 - Conservation Biology 3 Credit(s).
• ESC 321 - Aquatic Ecology 4 Credit(s).
• ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
• HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
• HHP 355 - Physiology of Exercise 3 Credit(s).
• HOR 415 - Plant Diseases 4 Credit(s).
• PSY 333 - Biological Psychology 3 Credit(s).

Total Credit Hours Required in Major: 55-57

Total Credit Hours Required in Degree: 121

Business Administration, Business Analytics Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

• the operation of a business enterprise;
• the economic and legal environments in which businesses operate;
• the importance of the business management profession and its responsibilities and
• essential problem solving or critical thinking abilities.
The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students’ understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

OR
• ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

• BUS 230 - Computer Applications 3 Credit(s).
• BUS 303 - Principles of Management 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• BUS 313 - Business Finance 3 Credit(s).
• BUS 315 - Business Law 3 Credit(s).
• BUS 330 - Quantitative Methods: Management 3 Credit(s).
• BUS 498 - Senior Seminar: Business Policy 3 Credit(s).
  OR
• ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Business Analytics Emphasis (24 Credit Hours)

The Business Analytics emphasis area focuses on the opportunity to achieve organizational goals, profit and non-profit, through the analysis of data and business processes. The application of data analysis has become integral to organizational competitiveness, customer satisfaction and growth as well of optimizing services to clients of non-profit agencies. Students studying Business Analytics will learn how to leverage data for improvement in organizational efficiency and effectiveness. They will learn how to use analytical skills to solve problems in an increasingly complex economic environment. Technology is an important component of Business Analytics program with SAS, VirtualBox or VMware, SPSS, Excel, Access and other software (as appropriate) being utilized to generate numerical results for analysis. Emphasis is placed on what data need to be investigated, interpreting the numeric results of the data, and writing concise reports. Application of the theories and principles from the required courses will be the hallmark of the Business Analytics program.

• ACC 409 - Equity and Bond Analysis 3 Credit(s).
• ANA 272 - SAS Programming 1: Essentials 3 Credit(s).
• ANA 273 - SAS Programming 2: Data Manipulation Techniques 3 Credit(s).
• ANA 473 - Health Analytics and Informatics 3 Credit(s).
• BUS 325 - Advanced Computer Applications 3 Credit(s).
• BUS 410 - Marketing Research 3 Credit(s).
• Approved Electives (See below) Credit Hour(s): 6

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48
Total Credit Hours Required in Degree: 121

**Business Administration, Financial Management Emphasis, B.S.**

**Business Administration**

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.

The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students' understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

**Experiential Component (Complete 1 of the Following Courses:)**

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)

BUS 492 - Global Competitiveness Practicum I 3 Credit(s).

BUS 493 - Global Competitiveness Practicum II 3 Credit(s).

BUS 499 - Internship 3 Credit(s).

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).

- MTH 208 - Introductory Statistics 3 Credit(s).
  OR
- ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).

- BUS 498 - Senior Seminar: Business Policy 3 Credit(s).
  OR
- ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Financial Management Emphasis (24 Credits)

Financial Management involves the efficient acquisition and use of funds. Every organization, whether it is a large corporation or a small business, must be concerned with financial management. There are a number of job opportunities for financial planners, budgeting officers, analysts, and decision-makers. The financial management program prepares graduates for financially-oriented positions in business or in management of financial institutions such as banks, insurance companies, and brokerage houses.

- BUS 202 - Introduction to Investments 3 Credit(s).
- BUS 314 - Advanced Corporate Finance 3 Credit(s).
- ECO 313 - Money and Banking 3 Credit(s).
- ECO 400 - International Finance 3 Credit(s).
- Approved Electives (See below): 12 Credit Hour(s)
Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Business Administration, Management Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.

The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students' understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.
Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).

Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).
- OR
  - ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 303 - Principles of Management 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- BUS 313 - Business Finance 3 Credit(s).
- BUS 315 - Business Law 3 Credit(s).
- BUS 330 - Quantitative Methods: Management 3 Credit(s).
- BUS 498 - Senior Seminar: Business Policy 3 Credit(s).
- OR
  - ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Management Emphasis (24 Credit Hours)

Management involves achieving results by the combination and use of all available resources in an organization. Because this task is complex, all managers must possess technical and conceptual skills as well as interpersonal and communications skills. Ferrum College’s program is designed to help students develop these skills. It is an appropriate
program for those students planning to enter general management and for those whose career goal is to own their own businesses.

- BUS 320 - Entrepreneurship 3 Credit(s).
- BUS 325 - Advanced Computer Applications 3 Credit(s).
- BUS 331 - Production/Operations Management 3 Credit(s).
- BUS 403 - Human Resources Management 3 Credit(s).
- Approved Electives (See below) Credit Hour(s): 12

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Business Administration, Marketing Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.

The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.
Students are urged to get involved in student organizations and clubs such as ENACTUS—Entrepreneurial Action Us. Such award-winning organizations enhance the students' understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

**Experiential Component (Complete 1 of the Following Courses:)**

- ACC 290, 390, or 490 - Accounting Practicum *1 Credit(s).*
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation *1 Credit(s).*
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration *1 Credit(s).*
- BUS 395 - Directed Study *1-3 Credits.* (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I *3 Credits.*
- BUS 493 - Global Competitiveness Practicum II *3 Credits.*
- BUS 499 - Internship *3 Credits.*

*Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.*

**Liberal Arts and Program Specific Requirements (12 Credit Hours)**

- ACC 201 - Principles of Accounting I *3 Credits.*
- ACC 202 - Principles of Accounting II *3 Credits.*
- ECO 201 - Principles of Macroeconomics *3 Credits.*
- ECO 202 - Principles of Microeconomics *3 Credits.*
- MTH 111 - Pre-Calculus I *3 Credits.*
- MTH 208 - Introductory Statistics *3 Credits.*

OR
- ANA 271 - Business Statistics with Statistical Software *3 Credits.* (ANA 271 is required for the Business Analytics Emphasis)

**Common Required Courses (24 Credit Hours)**

- BUS 230 - Computer Applications *3 Credits.*
- BUS 303 - Principles of Management *3 Credits.*
- BUS 308 - Business Communications *3 Credits.*
- BUS 311 - Marketing *3 Credits.*
- BUS 313 - Business Finance *3 Credits.*
- BUS 315 - Business Law *3 Credits.*
- BUS 330 - Quantitative Methods: Management *3 Credits.*
Marketing Emphasis (24 Credit Hours)

Marketing is the link between the organization and the consumer and involves planning and execution of the conception, pricing, promotion, and distribution of products. Ferrum College's marketing program gives students a basic understanding of marketing and its role in society and business. It prepares students for such fields as advertising, sales, marketing research, retail sales management, and Internet-based careers.

- BUS 304 - Advertising 3 Credit(s).
- BUS 305 - Professional Selling 3 Credit(s).
- BUS 316 - Retail Management 3 Credit(s).
- BUS 410 - Marketing Research 3 Credit(s).
- Approved Electives (See below) Credit Hour(s): 12

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Business Administration, Sports Management Emphasis, B.S.

Business Administration

The Business Administration program provides an academic environment which prepares students for graduate school and for professional roles in a global economic system. It provides a broad background in basic business principles and is supported by a strong liberal arts education. Emphasis is placed on helping the student understand

- the operation of a business enterprise;
- the economic and legal environments in which businesses operate;
- the importance of the business management profession and its responsibilities and
- essential problem solving or critical thinking abilities.
The program incorporates extensive experiential learning opportunities for students including setting up and running a small business and mentoring local businesses. Furthermore, the program offers e-business and e-commerce applications.

To be effective in a managerial role, one must be prepared to handle demanding and changing situations. The students who major in Business Administration have opportunities to develop the administrative skills and the background knowledge necessary for dealing with these situations. Business majors develop strengths in oral and written communications, and quantitative decision-making skills.

During the freshman and sophomore years, the student concentrates in the liberal arts and receives an introduction to the basic functions and tools of business. In the junior and senior years, the student has flexibility in determining the area of professional concentration that will meet particular academic and career plans.

Students are urged to get involved in student organizations and clubs such as ENACTUS-Entrepreneurial Action Us. Such award-winning organizations enhance the students’ understanding of theoretical concepts, provide a service to the community, and help build their resume. The globalization of the U.S. enterprise system necessitates exposure to other cultures, languages and customs, and a better understanding of political and historical events. Business students are urged to take courses in languages, political science, and history, and to prepare for graduate school.

The five emphasis areas (Business Analytics, Financial Management, Management, Marketing and Sports Management) offer the business student an opportunity to emphasize an area of special interest and prepare for a specialized business career. The recommended off-campus internship gives students a real work experience prior to completion of their bachelor's degree requirements.

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.

### Experiential Component (Complete 1 of the Following Courses:)

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s).
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s).
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 395 - Directed Study 1-3 Credit(s). (this may include presenting a paper at an undergraduate conference)
- BUS 492 - Global Competitiveness Practicum I 3 Credit(s).
- BUS 493 - Global Competitiveness Practicum II 3 Credit(s).
- BUS 499 - Internship 3 Credit(s).

*Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.0 grade point average is a prerequisite for the internship.*

### Liberal Arts and Program Specific Requirements (12 Credit Hours)

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

OR
• ANA 271 - Business Statistics with Statistical Software 3 Credit(s). (ANA 271 is required for the Business Analytics Emphasis)

Common Required Courses (24 Credit Hours)

• BUS 230 - Computer Applications 3 Credit(s).
• BUS 303 - Principles of Management 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• BUS 313 - Business Finance 3 Credit(s).
• BUS 315 - Business Law 3 Credit(s).
• BUS 330 - Quantitative Methods: Management 3 Credit(s).
• BUS 498 - Senior Seminar: Business Policy 3 Credit(s).
  OR
• ANA 498 - Capstone Analytics Research 3 Credit(s). (for the Analytics Emphasis)

Sports Management Emphasis (24 Credit Hours)

The growth of sports as a major industry has increased the need and opportunity for well-trained professional managers. A well rounded business education which includes Finance, Accounting, Management, Marketing and Quantitative Skills with a focus on sport management skills is essential in this rapidly growing field. Sport Management majors can expect to find careers in professional sports, sports and fitness clubs, golf clubs, ski areas, education, the media, athlete representation, nonprofit recreation for such organizations as the YMCA, Boy and Girls Clubs, community programs, intercollegiate athletics and in the consumer segment.

It is recommended that the student choosing the Sports Management Emphasis obtain a license in First Aid Response.

Students using Sports Management as their emphasis are encouraged to take REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration as one of their approved electives.

• HHP 402 - Organization and Administration of Sport 3 Credit(s).
• BUS 250 - Introduction to the Business and Economics of Sports 3 Credit(s).
• BUS 403 - Human Resources Management 3 Credit(s).
• REC 450 - Special Events Planning and Management 3 Credit(s).
• Approved Electives (See below) Credit Hour(s): 12

Approved Electives (6-12 Credit Hours)

Students choose 6-12 credits (depending on Emphasis) from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 (6 for the Analytics Emphasis) credits must be at the 300-400 level. Students may choose to select these approved electives in such a way as to complete additional emphasis areas in business administration or to work toward a minor in another discipline. Students should work with a Business program advisor to determine the course that will be designated as approved electives.

Total Credit Hours Required in Major: 48
Total Credit Hours Required in Degree: 121

**Computer Technology and Information Systems, Computer Networks and Cybersecurity Emphasis, B.S.**

Computer Technology and Information Systems

Computer Technology and Information Systems is an interdisciplinary major that prepares students in the specialized areas of 1) Computer Networks and Cybersecurity, 2) Web Design and Programming Languages for Applications. Starting from a solid foundation in business and computer science concepts, students learn to appreciate and understand the relationships between these two disciplines and the application of computer technology systems in business. The major prepares students to design and implement information decision support systems; hence, they can fill management, planning, and decision-making roles within any organization. In addition, the emphasis areas will further enable students to fill positions that require specialized skills in various computer technology areas. This major also prepares students for graduate studies in business, information systems, technology, or other related fields.

Cybersecurity Emphasis: While data is increasingly providing a wealth of information and insight to corporations at their fingertips, it is also becoming detrimental in the wrong hands. With progressively more information traveling over the wires, the need for protection is greater now than ever before. This new track will therefore not only help prepare our graduates with the skills required to work in data security, but also help to narrow the skill shortage gap as being currently experienced in the industry.

Experiential Component (Complete 1 of the Following Courses:)

- CSC 230 - Web Design 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 499 - Internship 3-9 Credit(s).

Liberal Arts Requirements (6 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 234 - Mathematical Reasoning 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

- ACC 110 - Introduction to Accounting 3 Credit(s).
- CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s).
  OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (30 Credit Hours)
• BUS 230 - Computer Applications 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• BUS 430 - Management Information Systems 3 Credit(s).
• CSC 229 - Programming Concepts and Algorithm Design 3 Credit(s).
• CSC 245 - Networking Fundamentals 3 Credit(s).
• CSC 312 - Computer Organization 3 Credit(s).
• CSC 340 - Visual Basic for Applications 3 Credit(s).
• CSC 401 - Database Theory 3 Credit(s).
• CSC 455 - Systems Analysis and Design 3 Credit(s).
• CSC 498 - Senior Research Seminar (Capstone) 3 Credit(s).

Computer Networks and Cybersecurity Emphasis (26 Credit Hours)

• CJU 220 - Criminal Law 3 Credit(s).
• CSC 102 - Hardware Maintenance and Troubleshooting 3 Credit(s).
• CSC 145 - Social Networking Best Practices 3 Credit(s).
• CSC 345 - Advanced Networking Configuration and Management 3 Credit(s).
• CSC 350 - Operating Systems 3 Credit(s).
• CSC 435 - Fundamentals of Cybersecurity 3 Credit(s).
• CSC 445 - Digital Forensics and Cybercrime 3 Credit(s).
• SCI 144 - Science of Crime 2 Credit(s).

Total Credit Hours Required in Major (Depending on Emphasis Area): 54 – 56 Credit Hours

Total Credit Hours Required in Degree: 121

Computer Technology and Information Systems, Web Design and Programming Languages for Applications Emphasis, B.S.

Computer Technology and Information Systems

Computer Technology and Information Systems is an interdisciplinary major that prepares students in the specialized areas of 1) Computer Networks and Cybersecurity, 2) Web Design and Programming Languages for Applications. Starting from a solid foundation in business and computer science concepts, students learn to appreciate and understand the relationships between these two disciplines and the application of computer technology systems in business. The major prepares students to design and implement information decision support systems; hence, they can fill management, planning, and decision-making roles within any organization. In addition, the emphasis areas will further enable students to fill positions that require specialized skills in various computer technology areas. This major also prepares students for graduate studies in business, information systems, technology, or other related fields.

Cybersecurity Emphasis: While data is increasingly providing a wealth of information and insight to corporations at their fingertips, it is also becoming detrimental in the wrong hands. With progressively more information traveling over
the wires, the need for protection is greater now than ever before. This new track will therefore not only help prepare our graduates with the skills required to work in data security, but also help to narrow the skill shortage gap as being currently experienced in the industry.

Experiential Component (Complete 1 of the Following Courses:)

- CSC 230 - Web Design 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 499 - Internship 3-9 Credit(s).

Liberal Arts Requirements (6 Credit Hours)

- ECO 202 - Principles of Microeconomics 3 Credit(s).
- MTH 234 - Mathematical Reasoning 3 Credit(s).

Program Specific Requirements (9 Credit Hours)

- ACC 110 - Introduction to Accounting 3 Credit(s).
- CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s).
  OR
- CSC 125 - Concepts in Computer Information Systems 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Common Required Courses (30 Credit Hours)

- BUS 230 - Computer Applications 3 Credit(s).
- BUS 308 - Business Communications 3 Credit(s).
- BUS 430 - Management Information Systems 3 Credit(s).
- CSC 229 - Programming Concepts and Algorithm Design 3 Credit(s).
- CSC 245 - Networking Fundamentals 3 Credit(s).
- CSC 312 - Computer Organization 3 Credit(s).
- CSC 340 - Visual Basic for Applications 3 Credit(s).
- CSC 401 - Database Theory 3 Credit(s).
- CSC 455 - Systems Analysis and Design 3 Credit(s).
- CSC 498 - Senior Research Seminar (Capstone) 3 Credit(s).

Web Design and Programming Languages for Applications Emphasis (24 Credit Hours)

- ART 222 - Basic Computer Graphics 3 Credit(s).
- BUS 318 - Introduction to Electronic Commerce 3 Credit(s).
- CSC 230 - Web Design 3 Credit(s).
- CSC 235 - Programming for Portable Devices 3 Credit(s).
- CSC 310 - Java Programming 3 Credit(s).
• CSC 320 - Programming Using C++ 3 Credit(s).
• CSC 321 - Data Structures 3 Credit(s).
• MTH 243 - Discrete Mathematics 3 Credit(s).

Total Credit Hours Required in Major (Depending on Emphasis Area):
54 – 56 Credit Hours

Total Credit Hours Required in Degree: 121

Ecotourism, B.S.

Ecotourism is responsible travel that supports biodiversity conservation, builds environmental and cultural awareness and respect, and contributes to local economic and social development. The Ecotourism major combines multidisciplinary knowledge and skills related to ecotourism, protected area management, outdoor recreation, environmental science, and business administration. The Ecotourism major seeks to empower those who plan and implement ecotourism-related activities to see themselves as responsible hosts and stewards of earth's most incredible natural resources.

Experiential Component (Complete the Following Course:)

• ECT 499 - Ecotourism Internship 4 Credit(s).

Liberal Arts Requirements (7 Credit Hours)

• ECO 202 - Principles of Microeconomics 3 Credit(s).
• ESC 102 - Introduction to Environmental Science 4 Credit(s).

Program Specific Requirements (9 Credit Hours)

• ACC 110 - Introduction to Accounting 3 Credit(s).
• ESC 302 - Conservation Biology 3 Credit(s).
• SSC 251 - Introduction to Social Science Research 3 Credit(s).

Required Courses (35 Credit Hours)

• ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
• ECT 257 - Interpreting Culture and Nature 3 Credit(s).
ECT 265 - Foundations of Ecotourism 3 Credit(s).
ECT 270, 271 to 470, 471 - Ecotourism Practicum 1 Credit(s).
ECT 312 - Protected Area Management 3 Credit(s).
ECT 357 - Applied Interpretation 3 Credit(s).
ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
ECT 499 - Ecotourism Internship 4 Credit(s).
REC 325 - Wilderness Leadership I 3 Credit(s).
REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
REC 410 - Recreation Administration 3 Credit(s).
ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
OR
REC 372 - Eco-Adventure 3 Credit(s).

Recreation Activity Courses (Choose 4 Credit Hours)

REC 103 - Backpacking and Hiking 1 Credit(s).
REC 104 - Rock Climbing and Rappelling 1 Credit(s).
REC 106 - Outdoor Water Sports 1 Credit(s).
REC 107 - Introduction to Fly Fishing 1 Credit(s).
REC 108 - Trail Design and Construction 1 Credit(s).
REC 109 - Outdoor Recreation Sampler 1 Credit(s).
REC 139 - Orienteering 1 Credit(s).

Ecotourism Major Electives (Choose 18 Credit Hours from the following:)

ART 215 - Photoshop 3 Credit(s).
BIO 110 - Introductory Biology I 4 Credit(s).
BIO 123 - Entomology: Insects and Society 4 Credit(s).
BIO 201 - Vertebrate Zoology 4 Credit(s).
BIO 202 - Introduction to Plant Science 4 Credit(s).
BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).
BIO 311 - Field Botany 4 Credit(s).
BUS 304 - Advertising 3 Credit(s).
BUS 311 - Marketing 3 Credit(s).
COM 235 - Fundamental of TV and Video Production 3 Credit(s).
CJU 201 - Introduction to Criminal Justice 3 Credit(s).
ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
ENG 211 - Literature and the Environment 3 Credit(s).
EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).
EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
OR
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
• EPD 410 - Advanced Environmental Planning and Development 3 Credit(s).
• ESC 190, 290, 390 or 490 - Selected Topics 1-4 Credit(s).
• ESC 203 - Fundamentals of Ecology 4 Credit(s).
• ESC 205 - Tropical and Marine Ecology 4 Credit(s).
• ESC 209 - Physical Geology and Hydrology 4 Credit(s).
• ESC 321 - Aquatic Ecology 4 Credit(s).
• ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
• ESC 413 - Forest Science and Management 4 Credit(s).
• HIS 316 - Virginia History 3 Credit(s).
• HIS 375 - Sub-Saharan Africa 3 Credit(s).
• HIS 380 - Latin American History 3 Credit(s).
• HOR 411 - Landscape Design and Management 4 Credit(s).
• PSC 306 - Politics and Human Rights 3 Credit(s).
• REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
• REC 341 - Program Planning and Leadership 3 Credit(s).
• REC 343 - Facilitation of Adventure Pursuits 3 Credit(s).
• REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
• REC 361 - Outdoor Education 3 Credit(s).
• REC 413 - Recreation Facility Planning, Development, and Maintenance 3 Credit(s).
• REC 440 - Recreation Seminar 3 Credit(s).
• REC 450 - Special Events Planning and Management 3 Credit(s).
• SPA 101 - Elementary Spanish I 3 Credit(s).
• SPA 102 - Elementary Spanish II 3 Credit(s).
• SPA 201 - Intercultural Competence Through Language I 3 Credit(s).
• SPA 202 - Intermediate Language and Culture II 3 Credit(s).
• SPA 301 - Advanced Grammar and Composition 3 Credit(s).
• SPA 302 - Advanced Speaking and Comprehension 3 Credit(s).
• SPA 326 - Latin American Civilization & Culture 3 Credit(s).
• SCI 123 - Global Ecology and Climate Change 2 Credit(s).
• SCI 124 - Plant Structure and Function: Edible Wild Plants 2 Credit(s).
• SCI 125 - Introduction to Natural History 2 Credit(s).
• SCI 126 - Natural Resource Conservation 2 Credit(s).
• SCI 135 - Our Awesome Planet Earth 2 Credit(s).
• SCI 141 - Humans within Ecosystems: An Integration of Science and Humanities through Environmental Education 2 Credit(s).
• SCI 143 - Our Home/Our Habitat 2 Credit(s).

Total Credit Hours Required in Major: 57 Credit Hours

Total Credit Hours Required in Degree: 121

Elementary Education, B.S.
The Ferrum College Teacher Education Program prepares caring and competent pre-professionals as decision-makers for the diverse contexts of 21st-century classrooms, schools and communities. Building upon a solid liberal arts foundation, the program assists candidates to develop the knowledge, skills and dispositions necessary to become effective and caring teachers in an ever-changing society.

Experiential Component (Complete the Following Course:)

- EDU 404 - Student Teaching and Synthesis Experience 12 Credit(s).

Liberal Arts Requirements (12 Credit Hours)

- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).
- MTH 105 - Fundamentals of Mathematics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Program Specific Requirements (12 Credit Hours)

- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- ENG 301 - Literature for Children and Adolescents 3 Credit(s).
- HIS 316 - Virginia History 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).

Common Required Courses (21 Credit Hours)

- BIO 105 - Concepts in Biology 4 Credit(s).
- OR
- BIO 110 - Introductory Biology I 4 Credit(s).
- OR
- MTH 107 - Introduction to Finite Mathematics 3 Credit(s).
- OR
- MTH 111 - Pre-Calculus I 3 Credit(s).
- OR
- MTH 208 - Introductory Statistics 3 Credit(s).
- SCI 250 - Physical Science 4 Credit(s).
- GEO 220 - Physical Geography 4 Credit(s).

- ART 324 - Art for Educators 3 Credit(s).
- OR
- MUS 426 - Music for Children 3 Credit(s).
- OR
- THA 336 - Creative Dramatics in School Church and Community 3 Credit(s).
Required Courses (39 Credit Hours)

- EDU 202 - Introduction to 21st Century Education 3 Credit(s).
- EDU 203 - Foundations and Trends in Education 3 Credit(s).
- SPD 220 - Survey of Exceptional and Special Education 3 Credit(s).
- EDU 310 - Developmental and Diagnostic Reading 3 Credit(s).
- EDU 311 - Elementary Language Arts Methods 3 Credit(s).
- EDU 320 - Elementary Math Methods 3 Credit(s).
- EDU 350 - Elementary Social Studies and Science Methods 3 Credit(s).
- EDU 352 - Classroom Management and Differentiated Instructional Strategies 3 Credit(s).
- EDU 353 - Elementary/Middle School Curriculum, Instruction and Assessment Strategies 3 Credit(s).
- EDU 404 - Student Teaching and Synthesis Experience 12 Credit(s).

Total Credit Hours Required in Major: 60

Total Credit Hours Required in Degree: 121

Environmental Science, B.S.

The Environmental Science program provides students with state-of-the-art training and an interdisciplinary background that will enable them to deal with important environmental problems of the 21st century. In addition to the Liberal Arts Requirements curriculum required by Ferrum College and required environmental science courses, students must complete courses in biology, chemistry, earth sciences, economics, geography and statistics. Environmental problems are approached from a holistic basis and experiential learning is emphasized. An internship is required and independent research is encouraged. Ferrum College’s Environmental Science Program offers students flexibility in developing their own interests. Students are encouraged to pursue a minor, but it is not required.

Experiential Component (Complete the Following Courses:)

- ESC 102 - Introduction to Environmental Science 4 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Liberal Arts and Program Specific Requirements (11 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
  OR
- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 103 - General Chemistry I 4 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).

Required Courses (49 Credit Hours)

- BIO 201 - Vertebrate Zoology 4 Credit(s). OR
• BIO 301 - Invertebrate Zoology 4 Credit(s).

• BIO 202 - Introduction to Plant Science 4 Credit(s). OR
• BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).

• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s). OR
• CHM 301 - Organic Chemistry 1 4 Credit(s).

• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s). OR
• ESC 310 - Natural Resource Policy and Economics 3 Credit(s).

• ESC 102 - Introduction to Environmental Science 4 Credit(s).
• ESC 103 - Applied Environmental Monitoring 4 Credit(s).
• ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
• ESC 203 - Fundamentals of Ecology 4 Credit(s).
• GEO 220 - Physical Geography 4 Credit(s).
• GEO 221 - Geographic Information Systems 4 Credit(s).

• NSM 398 - Junior Seminar 3 Credit(s).
• NSM 498 - Senior Seminar 3 Credit(s).

• NSM 399 - Professional Preparation 1 Credit(s).
• NSM 499 - Internship 3 Credit(s).

Required Electives (Choose 8 Credit Hours)

• CRP 315 - Soil Science and Management 4 Credit(s).
• BIO 301 - Invertebrate Zoology 4 Credit(s). (if not used to meet Required Courses above)
• BIO 306 - Nonvascular Plants and Fungi 4 Credit(s). (if not used to meet Required Courses above)
• BIO 311 - Field Botany 4 Credit(s).
• BIO 315 - Animal Behavior 3 Credit(s).
• BIO 413 - Animal Diseases 3 Credit(s).
• CHM 305 - Analytical Chemistry 4 Credit(s).
• CHM 412 - Environmental Chemistry 3 Credit(s).
• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s). (if not used to meet Required Courses above)
• ESC 180, 181 to 480, 481 - Practicum 1 Credit(s).
• ESC 302 - Conservation Biology 3 Credit(s).
• ESC 310 - Natural Resource Policy and Economics 3 Credit(s). (if not used to meet Required Courses above)
• ESC 313 - Natural Resource Management 3 Credit(s).
• ESC 321 - Aquatic Ecology 4 Credit(s).
• ESC 405 - Fisheries and Wildlife Ecology and Management 4 Credit(s).
• ESC 413 - Forest Science and Management 4 Credit(s).
• ESC 421 - Pollution Science 4 Credit(s).
• ESC 424 - Environmental Toxicology 3 Credit(s).
• HOR 415 - Plant Diseases 4 Credit(s).
• SOC 303 - Cultural Diversity Applications in Schools and Society 3 Credit(s).
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s). OR
• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
Electives may also include Travel Courses or Variable Credit Courses (see below):

Travel Courses

• ESC 205 - Tropical and Marine Ecology 4 Credit(s).
• ESC 206 - Community Ecology of the Southeast 4 Credit(s).
• ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).

Variable Credit Courses

• ESC 190, 290, 390 or 490 - Selected Topics 1-4 Credit(s).
• ESC 195, 196 to 495, 496 - Independent Research 1-3 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Health and Human Performance, Exercise and Sport Studies Emphasis, B.S.

Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

• HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

• BIO 111 - Introductory Biology II 4 Credit(s).
• BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
• PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)
• HHP 100 - Responding to Emergencies 1 Credit(s).
• HHP 200 - Health and Wellness Concepts 3 Credit(s).
• HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
• HHP 338 - Motor Learning 3 Credit(s).
• HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
• HHP 341 - Applied Biomechanics 1 Credit(s).
• HHP 355 - Physiology of Exercise 3 Credit(s).
• HHP 357 - Applied Exercise Physiology 1 Credit(s).

• BIO 320 - Human Nutrition 3 Credit(s). OR
• HHP 348 - Sports Nutrition 3 Credit(s).

• PSY 345 - Sport Psychology 3 Credit(s). OR
• HHP 345 - Sport Psychology 3 Credit(s).

Choose 1 Course from list:

• HHP 130 - Individual Sports 1 Credit(s).
• HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
• HHP 144 - Team Sports 1 Credit(s).
• HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
• HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
• HHP 153 - Cardiorespiratory Activities 1 Credit(s).

Exercise and Sport Studies Emphasis

This option offers rigorous academic training to meet an increasing demand for well-educated professionals capable of delivering a broad range of exercise-based preventive, technical education and rehabilitative services. The specialists in this area develop individual exercise programs for a diverse population ranging from healthy individuals to individuals with known cardiovascular disease.

Program Specific Requirements (4 Credit Hours)

• BIO 255 - Human Anatomy and Physiology II 4 Credit(s).

Required Emphasis Courses (22 Credit Hours)

• BUS 230 - Computer Applications 3 Credit(s).
• HHP 206 - Introduction to Athletic Injuries 3 Credit(s).
• HHP 332 - Strength and Conditioning 3 Credit(s).
• HHP 361 - Exercise Assessment and Prescription 3 Credit(s).
• HHP 400 - Advanced Exercise Science 3 Credit(s).
• HHP 450 - (Capstone) Design and Application of Health and Human Performance Programs 3 Credit(s).
• HHP 499 - Internship 4 Credit(s).
Total Credit Hours Required in Major: 47
Total Credit Hours Required in Degree: 121

Health and Human Performance, Exercise Science Emphasis, B.S.

Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

- HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)

- HHP 100 - Responding to Emergencies 1 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
- HHP 338 - Motor Learning 3 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 341 - Applied Biomechanics 1 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 357 - Applied Exercise Physiology 1 Credit(s).
- BIO 320 - Human Nutrition 3 Credit(s). OR
- HHP 348 - Sports Nutrition 3 Credit(s).
- PSY 345 - Sport Psychology 3 Credit(s). OR
- HHP 345 - Sport Psychology 3 Credit(s).
Choose 1 Course from list:

- HHP 130 - Individual Sports 1 Credit(s).
- HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
- HHP 144 - Team Sports 1 Credit(s).
- HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
- HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
- HHP 153 - Cardiorespiratory Activities 1 Credit(s).

Exercise Science Emphasis

This emphasis is designed to serve as a pre-professional course of study for athletic training, sports medicine, physical therapy, cardiac rehabilitation, or physiology of exercise. This option would be for individuals interested in specializing in preventing, diagnosing and treating injuries related to participating in sports and/or exercise, specifically the rotation or deformation of joints or muscles caused by engaging in such physical activities. An exercise physiology and science professional performs a variety of tasks and procedures to assist athletes of all ages, amateur or professional, in any sport.

Program Specific Requirements (7 Credit Hours)

- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).

Required Emphasis Courses (32 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
  OR
- CHM 301 - Organic Chemistry I 4 Credit(s).
- HHP 206 - Introduction to Athletic Injuries 3 Credit(s).
  OR
- HHP 332 - Strength and Conditioning 3 Credit(s).
- HHP 361 - Exercise Assessment and Prescription 3 Credit(s).
- HHP 400 - Advanced Exercise Science 3 Credit(s).
- HHP 450 - (Capstone) Design and Application of Health and Human Performance Programs 3 Credit(s).
- HHP 499 - Internship 4 Credit(s).
- PHY 201 - General Physics I 4 Credit(s).
- PHY 202 - General Physics II 4 Credit(s).

Suggested Electives Include

- BIO 303 - Microbiology 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).
Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Health and Human Performance, Health Promotion Emphasis, B.S.

Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

- HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)

- HHP 100 - Responding to Emergencies 1 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
- HHP 338 - Motor Learning 3 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 341 - Applied Biomechanics 1 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 357 - Applied Exercise Physiology 1 Credit(s).
- BIO 320 - Human Nutrition 3 Credit(s). OR
- HHP 348 - Sports Nutrition 3 Credit(s).
- PSY 345 - Sport Psychology 3 Credit(s). OR
- HHP 345 - Sport Psychology 3 Credit(s).

Choose 1 Course from list:
• HHP 130 - Individual Sports 1 Credit(s).
• HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
• HHP 144 - Team Sports 1 Credit(s).
• HHP 145 - Rhythmics, Movement, and Games 1 Credit(s).
• HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
• HHP 153 - Cardiorespiratory Activities 1 Credit(s).

Health Promotion Emphasis

This option provides an area of interest for those concerned in developing healthy public policy that addresses the process of enabling people to increase control over their health and its determinants, and thereby improve their health. Health promotion professionals duties may include; planning and coordinating health promotion programs for community groups, informing and involving other health professionals in community health issues, designing and developing public information campaigns using radio, television, newspapers, pamphlets, posters and websites and constructing school curriculum material.

Program Specific Requirements (4 Credit Hours)

• BIO 255 - Human Anatomy and Physiology II 4 Credit(s).

Required Emphasis Courses (23 Credit Hours)

• HHP 401 - Methods for Teaching Health Education 3 Credit(s).
• HHP 450 - (Capstone) Design and Application of Health and Human Performance Programs 3 Credit(s).
• HHP 499 - Internship 4 Credit(s).
• PSY 328 - Health Psychology 3 Credit(s).
• REC 341 - Program Planning and Leadership 3 Credit(s).
• SWK 350 - Substance Abuse: Interventive Techniques 3 Credit(s).

Any 2 Topics in Science Classes

• SCI 101 - Introductory Interdisciplinary Science I 2 Credit(s).
• SCI 102 - Introductory Interdisciplinary Science II 2 Credit(s).
• SCI 121 - Population, Food, and Environment 2 Credit(s).
• SCI 122 - The Disintegrating Web: The Causes and Consequences of Extinction 2 Credit(s).
• SCI 123 - Global Ecology and Climate Change 2 Credit(s).
• SCI 124 - Plant Structure and Function: Edible Wild Plants 2 Credit(s).
• SCI 125 - Introduction to Natural History 2 Credit(s).
• SCI 126 - Natural Resource Conservation 2 Credit(s).
• SCI 127 - Human Sexual Reproduction, Pregnancy, Development, and Birth 2 Credit(s).
• SCI 128 - The Healthy Human Body 2 Credit(s).
• SCI 129 - The Diseased Human Body 2 Credit(s).
• SCI 130 - Plant Nutrition and Disease: Healthy Houseplants 2 Credit(s).
• SCI 132 - Fossils and Geologic Time 2 Credit(s).
• SCI 134 - Quarks and Atoms, Dark Matter and Black Holes 2 Credit(s).
• SCI 135 - Our Awesome Planet Earth 2 Credit(s).
SCI 136 - Chemistry in Our World 2 Credit(s).
SCI 137 - The Physics of Sports 2 Credit(s).
SCI 139 - The Amazing Universe 2 Credit(s).
SCI 140 - DNA Fingerprinting and Genetic Engineering 2 Credit(s).
SCI 141 - Humans within Ecosystems: An Integration of Science and Humanities through Environmental Education 2 Credit(s).
SCI 143 - Our Home/Our Habitat 2 Credit(s).
SCI 144 - Science of Crime 2 Credit(s).
SCI 145 - Bad Science in Movies 2 Credit(s).

Total Credit Hours Required in Major: 48

Total Credit Hours Required in Degree: 121

Health and Human Performance, Physical and Health Education; Teaching Pre K-12 Emphasis (Teacher Education Minor required), B.S.

Health and Human Performance

The Health and Human Performance major prepares the student for a variety of fitness, educational and rehabilitation settings including local, state and federal agencies such as schools, non-profit organizations such as health department services as well as commercial enterprises such as fitness centers, the Health and Human Performance major will include four emphasis areas.

Experiential Component (Complete the Following Course:)

- HHP 499 - Internship 4 Credit(s).

Liberal Arts Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Required Common Courses (25 Credit Hours)

- HHP 100 - Responding to Emergencies 1 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 252 - Foundations of Health and Human Performance Professions 3 Credit(s).
- HHP 338 - Motor Learning 3 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 341 - Applied Biomechanics 1 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- HHP 357 - Applied Exercise Physiology 1 Credit(s).

- BIO 320 - Human Nutrition 3 Credit(s). OR
- HHP 348 - Sports Nutrition 3 Credit(s).

- PSY 345 - Sport Psychology 3 Credit(s). OR
- HHP 345 - Sport Psychology 3 Credit(s).

Choose 1 Course from list:

- HHP 130 - Individual Sports 1 Credit(s).
- HHP 136 - Introduction to Muscular Fitness 1 Credit(s).
- HHP 144 - Team Sports 1 Credit(s).
- HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
- HHP 149, 249, 349 or 449 - Selected Topics in Physical Education 1-3 Credit(s).
- HHP 153 - Cardiorespiratory Activities 1 Credit(s).

Physical and Health Education; Teaching Pre K-12 Emphasis
(Teacher Education Minor Required)

Students electing this program emphasis must also minor in the All-Level Teacher Education Minor and fulfill all the requirements and standards in both programs to become certified to teach Physical Education and Health at the elementary and secondary levels (Pre K-12). This licensure requires passing all state mandated tests prior to enrollment into the Teacher Education program. This emphasis provides the scientific background and academic experience which will prepare students to be effective educators. (See Teacher Education Minor)

The Experiential Component (requirement of the major) for this emphasis can be met by successfully completing EDU 404 Student Teaching and Synthesis Experience.

Program Specific Requirements (8 Credit Hours)

- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- PSY 291 - Practicum and Child Development Lab 1 Credit(s).

Required Emphasis Courses (14 Credit Hours)

- DAN 105 - Fundamentals of Dance Styles 1 Credit(s). OR
- DAN 106 - Fundamentals of Dance Styles 1 Credit(s). OR
- DAN 110 - Beginning Dance for Performance I 1 Credit(s). OR
- DAN 111 - Beginning Dance for Performance II 1 Credit(s).

- HHP 145 - Rhythms, Movement, and Games 1 Credit(s).
- HHP 320 - Health and Physical Education for Children (Pre-K-6) 3 Credit(s).
- HHP 321 - The Physical Education Experience for Adolescents 3 Credit(s).
- HHP 361 - Exercise Assessment and Prescription 3 Credit(s).
- HHP 401 - Methods for Teaching Health Education 3 Credit(s).

Total Credit Hours Required in Major: 39

Total Credit Hours Required in Degree: 121

Mathematics (Minor Required), B.S.

Mathematics studies the concepts related to quantity, space, change, pattern and structure. Ferrum College's Mathematics curriculum allows the student to learn traditional areas of mathematics, such as Calculus, Geometry and Algebra, while developing the ability for deductive reasoning and problem-solving. The Ferrum College B.S. in Mathematics prepares the student who plans to pursue a career in business, industry, government, or secondary education, as well as the student who plans to continue learning Mathematics in graduate school.

The Experiential Component (requirement of the major) in the program is met by the successful completion of laboratory courses.

Liberal Arts Requirements

- MTH 211 - Calculus I 3 Credit(s).

Program Specific Requirements

Choose one of the following sequences:

- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
  OR
- CSC 310 - Java Programming 3 Credit(s).
- CSC 312 - Computer Organization 3 Credit(s).
- CSC 320 - Programming Using C++ 3 Credit(s).
- CSC 321 - Data Structures 3 Credit(s).
  OR
- PHY 203 - Fundamentals of Physics 4 Credit(s).
- PHY 204 - Fundamentals of Physics 4 Credit(s).

Required Courses (38 Credit Hours)

- MTH 208 - Introductory Statistics 3 Credit(s).
- MTH 221 - Calculus II 3 Credit(s).
- MTH 234 - Mathematical Reasoning 3 Credit(s).
- MTH 243 - Discrete Mathematics 3 Credit(s).
- MTH 246 - Linear Algebra I 3 Credit(s).
- MTH 322 - Calculus III 3 Credit(s).
- MTH 324 - Elements of Geometry and Number Theory 3 Credit(s).
- MTH 332 - Differential Equations 3 Credit(s).
- MTH 342 - Abstract Algebra 3 Credit(s).
- MTH 357 - Linear Algebra II 3 Credit(s).
- MTH 390 or 490 - Selected Topics: Credit Hours: 3
- MTH 497 - Foundations of Mathematics 2 Credit(s).
- MTH 498 - Senior Seminar in Mathematics 3 Credit(s). *

Total Credit Hours Required in Major (Minor Required): 38

Ferrum College offers teaching licensure in Mathematics (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor.

Total Credit Hours Required for Endorsement: 24-25

Total Credit Hours Required in Degree: 121

To receive a minor in Mathematics students must have 18 credit hours of Mathematics at the 200 level or above.

Pre-Professional Health Sciences, General Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
• New York College of Podiatric Medicine, Doctor of Podiatric Medicine
• Shenandoah University, Doctor of Physical Therapy
• Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
• Shenandoah University, Master of Science in Occupational Therapy
• Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
• East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
• Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
• Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
• Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

• PPH 299 - Professional Preparation 1 Credit(s).
• BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
• BIO 110 - Introductory Biology I 4 Credit(s).

• BIO 111 - Introductory Biology II 4 Credit(s).
• CHM 103 - General Chemistry I 4 Credit(s).

• CHM 104 - General Chemistry II 4 Credit(s).
  OR
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s).
• PHI 211 - Ethics 3 Credit(s).
• PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

• CHM 103 - General Chemistry I 4 Credit(s).

• CHM 104 - General Chemistry II 4 Credit(s).
  OR
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

• NSM 398 - Junior Seminar 3 Credit(s).
• NSM 498 - Senior Seminar 3 Credit(s).

General Emphasis

The General Emphasis includes coursework in health sciences covering cellular through organismal perspectives and permits maximum flexibility for a student with general or undeveloped interests in health sciences through the large professional elective allowance. Careful planning of professional electives is important to ensure a variety of coursework and experiences and to prepare for potential application to specific programs and schools. This emphasis
may be planned to support application to a Bachelor of Science in Medical Laboratory Sciences program (see Articulation Agreements list) among others. The General Emphasis may not be combined with another emphasis area in the Pre-Professional Health Sciences major.

Program Specific Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 111 - Pre-Calculus I 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses (16 Credit Hours)

- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Professional Electives (25 Credit Hours)

At least 12 must be at the 300-400 level

Total Credit Hours Required in Major: 55

Total Credit Hours Required in Degree: 121

Pre-Professional Health Sciences, Pre-Med Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school prerequisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:
- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
- New York College of Podiatric Medicine, Doctor of Podiatric Medicine
- Shenandoah University, Doctor of Physical Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
- Shenandoah University, Master of Science in Occupational Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
- East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
- Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
- Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
- Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

- PPH 299 - Professional Preparation 1 Credit(s).
- BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).
- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).
Pre-Med Emphasis

The Pre-Med Emphasis is designed to serve as a pre-professional course of study for students interested in applying to programs awarding the following degrees: Medical Doctor (MD), Doctor of Osteopathy (DO), Master of Science in Physician Assistant (MSPA) or Physician Assistant Studies (MPAS), Doctor of Pharmacy (PharmD), Doctor of Dental Medicine (DMD), Doctor of Dental Surgery (DDS), Doctor of Chiropractic (DC), and Doctor of Podiatric Medicine (DPM), among others (see Articulation Agreement list). Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

Program Specific Requirements (11 Credit Hours)

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 203 - Concepts in Calculus 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

Required Courses (27 Credit Hours)

- BIO 230 - Introduction to Cell and Molecular Biology 3 Credit(s).
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).

Professional Electives (14 Credit Hours at Least 7 at the 300-400 Level)

Suggestions:

- PHY 201 - General Physics I 4 Credit(s). AND
- PHY 202 - General Physics II 4 Credit(s).
  OR
- PHY 203 - Fundamentals of Physics 4 Credit(s). AND
- PHY 204 - Fundamentals of Physics 4 Credit(s).

- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s).
- PSY 212 - Human Growth and Development – Adulthood 3 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- CHM 220 - Principles of Pharmacology 3 Credit(s).
- CHM 305 - Analytical Chemistry 4 Credit(s).
- CHM 420 - Medicinal Chemistry 3 Credit(s).

- NSM 399 - Professional Preparation 1 Credit(s). AND
- NSM 499 - Internship 3 Credit(s).
Pre-Professional Health Sciences, Pre-Nursing Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
- New York College of Podiatric Medicine, Doctor of Podiatric Medicine
- Shenandoah University, Doctor of Physical Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
- Shenandoah University, Master of Science in Occupational Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
- East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
- Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
- Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
- Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

- PPH 299 - Professional Preparation \(1 \text{ Credit}(s)\).
- BIO 109 - Introductory Biology I for Health Sciences \(4 \text{ Credit}(s)\).
  OR
- BIO 110 - Introductory Biology I \(4 \text{ Credit}(s)\).
• BIO 111 - Introductory Biology II \(4\) Credit(s).
• CHM 103 - General Chemistry I \(4\) Credit(s).

• CHM 104 - General Chemistry II \(4\) Credit(s).
OR
• CHM 105 - Introduction to Organic and Biochemistry \(4\) Credit(s).

Liberal Arts Requirements (10 Credit Hours)

• BIO 110 - Introductory Biology I \(4\) Credit(s).
• PHI 211 - Ethics \(3\) Credit(s).
• PSY 201 - General Psychology \(3\) Credit(s).

Common Required Courses (14 Credit Hours)

• CHM 103 - General Chemistry I \(4\) Credit(s).

• CHM 104 - General Chemistry II \(4\) Credit(s).
OR
• CHM 105 - Introduction to Organic and Biochemistry \(4\) Credit(s).

• NSM 398 - Junior Seminar \(3\) Credit(s).
• NSM 498 - Senior Seminar \(3\) Credit(s).

Pre-Nursing Emphasis

The Pre-Nursing Emphasis is designed to serve as a pre-professional course of study for students interested in applying to Bachelor of Sciences in Nursing (BSN), Accelerated Bachelor of Science in Nursing (ABSN) and related programs at Ferrum College and other institutions (see Articulation Agreement list). Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

Program Specific Requirements (11 Credit Hours)

• BIO 111 - Introductory Biology II \(4\) Credit(s).
• PPH 299 - Professional Preparation \(1\) Credit(s).
• MTH 111 - Pre-Calculus \(3\) Credit(s).
• MTH 208 - Introductory Statistics \(3\) Credit(s).

Required Courses (22 Credit Hours)

• BIO 203 - Microbiology for Health Sciences \(4\) Credit(s). OR
• BIO 303 - Microbiology \(4\) Credit(s).

• BIO 254 - Human Anatomy and Physiology I \(4\) Credit(s).
• BIO 255 - Human Anatomy and Physiology II \(4\) Credit(s).
• BIO 320 - Human Nutrition \(3\) Credit(s).
• PSY 210 - Human Growth and Development - Lifespan 3 Credit(s).
• NSM 399 - Professional Preparation 1 Credit(s).
• NSM 499 - Internship 3 Credit(s).

Professional Electives (19 Credit Hours)

• At least 12 must be at the 300-400 level. Professional Electives must be approved by the Advisor and Program Coordinator.

Total Credit Hours Required in Major: 55

Total Credit Hours Required in Degree: 121

Pre-Professional Health Sciences, Pre-Therapy Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school per-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.

Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

• Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
• Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
• University of Charleston School of Pharmacy, Doctor of Pharmacy
• Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
• Sherman College of Chiropractic, Doctor of Chiropractic
• New York College of Podiatric Medicine, Doctor of Podiatric Medicine
• Shenandoah University, Doctor of Physical Therapy
• Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
• Shenandoah University, Master of Science in Occupational Therapy
• Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
• East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
• Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
• Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
• Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

• PPH 299 - Professional Preparation 1 Credit(s).
• BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
• BIO 110 - Introductory Biology I 4 Credit(s).
• BIO 111 - Introductory Biology II 4 Credit(s).
• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 104 - General Chemistry II 4 Credit(s).
  OR
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

• BIO 110 - Introductory Biology I 4 Credit(s).
• PHI 211 - Ethics 3 Credit(s).
• PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

• CHM 103 - General Chemistry I 4 Credit(s).
• CHM 104 - General Chemistry II 4 Credit(s).
  OR
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
• NSM 398 - Junior Seminar 3 Credit(s).
• NSM 498 - Senior Seminar 3 Credit(s).

Pre-Therapy Emphasis

The Pre-Therapy Emphasis is designed to serve as a pre-professional course of study for students interested in applying to programs awarding the following degrees: Doctor of Physical Therapy (DPT), Master of Science in Occupational Therapy (MOT), and Doctor of Occupational Therapy (OTD), among others (see Articulation Agreement list). Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

Program Specific Requirements (11 Credit Hours)

• BIO 111 - Introductory Biology II 4 Credit(s).
• PPH 299 - Professional Preparation 1 Credit(s).
• MTH 111 - Pre-Calculus I 3 Credit(s).
• MTH 208 - Introductory Statistics 3 Credit(s).
Required Courses (30 Credit Hours)

- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
- BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
- HHP 340 - Kinesiology: Scientific Basis of Human Movement 3 Credit(s).
- HHP 355 - Physiology of Exercise 3 Credit(s).
- PSY 210 - Human Growth and Development - Lifespan 3 Credit(s).
- PSY 320 - Abnormal Psychology 3 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s).
- NSM 499 - Internship 3 Credit(s).

Professional Electives (14 Credit Hours at Least 7 at the 300-400 Level)

Suggested Electives for Physical Therapy Graduate Program preparation are:

- MTH 203 - Concepts in Calculus 3 Credit(s).
- PHY 201 - General Physics I 4 Credit(s). AND
- PHY 202 - General Physics II 4 Credit(s).
 OR
- PHY 203 - Fundamentals of Physics 4 Credit(s). AND
- PHY 204 - Fundamentals of Physics 4 Credit(s).

Total Credit Hours Required in Major: 55

Total Credit Hours Required in Degree: 121

Pre-Professional Health Sciences, Pre-Vet Emphasis, B.S.

Pre-Professional Health Sciences

The Pre-Professional Health Sciences major is an interdisciplinary major that features experiences and coursework to prepare students for entry into follow-on professional programs culminating in a variety of health-related careers. Articulation agreements are in place to support acceptance of students with strong academic performance into professional programs. This major can also be adapted for the specific needs of students interested in interdisciplinary graduate programs in the life sciences. The major curriculum includes general coursework in the basic sciences, psychology, ethics, professional preparation, and statistics in conjunction with one of five emphasis areas tailored to requirements for application to specific health-related follow-on programs. Each emphasis area reserves room for professional electives to allow maximum flexibility to meet specific school pre-requisites based on anticipated applications. Professional electives must be approved by the student's Academic Advisor and Program Coordinator no later than the spring of the student's junior year.
Articulation Agreements with the following colleges and universities exist and should be discussed with the student's Academic Advisor or Program Coordinator:

- Edward Via Virginia College of Osteopathic Medicine, Doctor of Osteopathic Medicine
- Murphy Deming College of Health Sciences at Mary Baldwin College, Master of Science in Physician Assistant
- University of Charleston School of Pharmacy, Doctor of Pharmacy
- Bernard J. Dunn School of Pharmacy at Shenandoah University, Doctor of Pharmacy
- Sherman College of Chiropractic, Doctor of Chiropractic
- New York College of Podiatric Medicine, Doctor of Podiatric Medicine
- Shenandoah University, Doctor of Physical Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Physical Therapy
- Shenandoah University, Master of Science in Occupational Therapy
- Murphy Deming College of Health Sciences at Mary Baldwin College, Doctor of Occupational Therapy
- East Tennessee State University, Accelerated Bachelor of Science in Nursing (Second Degree)
- Jefferson College of Health Sciences, Accelerated Bachelor of Science in Nursing (Second Degree)
- Shenandoah University, Accelerated Bachelor of Science in Nursing (second degree)
- Jefferson College of Health Sciences, Bachelor of Science in Medical Laboratory Sciences (second degree)

Experiential Component (Complete the Following Courses:)

- PPH 299 - Professional Preparation 1 Credit(s).
- BIO 109 - Introductory Biology I for Health Sciences 4 Credit(s).
  OR
- BIO 110 - Introductory Biology I 4 Credit(s).

- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 103 - General Chemistry I 4 Credit(s).

- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

Liberal Arts Requirements (10 Credit Hours)

- BIO 110 - Introductory Biology I 4 Credit(s).
- PHI 211 - Ethics 3 Credit(s).
- PSY 201 - General Psychology 3 Credit(s).

Common Required Courses (14 Credit Hours)

- CHM 103 - General Chemistry I 4 Credit(s).

- CHM 104 - General Chemistry II 4 Credit(s).
  OR
- CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).

- NSM 398 - Junior Seminar 3 Credit(s).
- NSM 498 - Senior Seminar 3 Credit(s).

**Pre-Vet Emphasis**

The Pre-Vet Emphasis is designed to serve as a pre-professional course of study for students interested in programs and careers in veterinary medicine (DVM) or more broadly veterinary science. Careful planning of professional electives is important to ensure preparation for application to specific programs and schools.

**Program Specific Requirements (11 Credit Hours)**

- BIO 111 - Introductory Biology II 4 Credit(s).
- PPH 299 - Professional Preparation 1 Credit(s).
- MTH 203 - Concepts in Calculus 3 Credit(s).
- MTH 208 - Introductory Statistics 3 Credit(s).

**Required Courses (35 Credit Hours)**

- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- BIO 230 - Introduction to Cell and Molecular Biology 3 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 315 - Biochemistry 4 Credit(s).
- PHY 201 - General Physics I 4 Credit(s). AND
- PHY 202 - General Physics II 4 Credit(s).
- OR
- PHY 203 - Fundamentals of Physics 4 Credit(s). AND
- PHY 204 - Fundamentals of Physics 4 Credit(s).

**Professional Electives (6 Credit Hours)**

Suggestions:

- AGS 110 - Agriculture Issues 3 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 414 - Domestic Animal Reproduction 4 Credit(s).
- BIO 330 - Cell Biology 4 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).
- CHM 220 - Principles of Pharmacology 3 Credit(s).
- NSM 399 - Professional Preparation 1 Credit(s). AND
- NSM 499 - Internship 3 Credit(s).

**Total Credit Hours Required in Major: 55**
Total Credit Hours Required in Degree: 121

Recreation Leadership (Minor Required), Outdoor Recreation Specialist Emphasis, B.S.

Recreation Leadership

The Recreation Leadership program is founded on the principle that healthy recreation and leisure pursuits are critical to the development of the complete individual with a holistic approach to living. The recreation professional, regardless of the specific sector, is crucial in delivering high quality recreation and leisure experiences that impact individuals in meaningful ways. Through experiential and traditional learning environments coupled with direct application of theory and best practices, the Recreation Leadership student will develop core competencies and build on the leadership, critical thinking and problem solving skills necessary for success in a broad range of career settings.

The Recreation Leadership major prepares the student for a variety of recreation settings including local, state and federal agencies, non-profit organizations, recreation services, natural and historic interpretation agencies, as well as commercial enterprises.

Experiential Component (Complete the Following Courses:)

- REC 499 - Internship 4 Credit(s).

Liberal Arts Requirement (4 Credit Hours)

- ESC 102 - Introduction to Environmental Science 4 Credit(s).

Program Specific Requirements (12 Credit Hours)

- ACC 110 - Introduction to Accounting 3 Credit(s).
- ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).

Choose one of the following courses:
- ESC 302 - Conservation Biology 3 Credit(s).
- OR
- ESC 313 - Natural Resource Management 3 Credit(s).

Common Required Courses (23 Credit Hours)

- REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
- REC 270, 271 to 470, 471 - Recreation Practicum 1 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
- REC 410 - Recreation Administration 3 Credit(s).
• REC 413 - Recreation Facility Planning, Development, and Maintenance 3 Credit(s).
• REC 440 - Recreation Seminar 3 Credit(s).
• REC 499 - Internship 4 Credit(s).

Outdoor Recreation Specialist Emphasis (15 Credit Hours)

• REC 325 - Wilderness Leadership I 3 Credit(s).
• REC 343 - Facilitation of Adventure Pursuits 3 Credit(s).
• REC 361 - Outdoor Education 3 Credit(s).

Recreation Activity Electives (3 Credit Hours)

• REC 103 - Backpacking and Hiking 1 Credit(s).
• REC 104 - Rock Climbing and Rappelling 1 Credit(s).
• REC 106 - Outdoor Water Sports 1 Credit(s).
• REC 107 - Introduction to Fly Fishing 1 Credit(s).
• REC 108 - Trail Design and Construction 1 Credit(s).
• REC 139 - Orienteering 1 Credit(s).

Choose 3 credits from the following:

Recreation Leadership Required Electives

• ART 102 - Three-Dimensional Design 3 Credit(s).
• ART 217 - Introduction to Photography 3 Credit(s).

• ART 220 - Introduction to Museum Studies 3 Credit(s), OR
• HIS 220 - Introduction to Museum Studies 3 Credit(s).

• BIO 311 - Field Botany 4 Credit(s).
• BUS 304 - Advertising 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
• ECT 257 - Interpreting Culture and Nature 3 Credit(s).
• ECT 265 - Foundations of Ecotourism 3 Credit(s).
• ECT 357 - Applied Interpretation 3 Credit(s).
• ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
• ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
• ENG 211 - Literature and the Environment 3 Credit(s).
• EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
• EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).

• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s), OR
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).

• ESC 205 - Tropical and Marine Ecology 4 Credit(s), (E-Term)
• ESC 206 - Community Ecology of the Southeast 4 Credit(s), (E-Term)
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s). (E-Term)
- GEO 220 - Physical Geography 4 Credit(s).
- GEO 221 - Geographic Information Systems 4 Credit(s).
- HHP 200 - Health and Wellness Concepts 3 Credit(s).
- HHP 330 - Coaching the Athlete 3 Credit(s).
- REC 325 - Wilderness Leadership 1-3 Credit(s). (non-Outdoor Emphasis only)
- REC 343 - Facilitation of Adventure Pursuits 3 Credit(s). (non-Outdoor Emphasis only)
- REC 372 - Eco-Adventure 3 Credit(s). (E-Term)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s).
- SCI 123 - Global Ecology and Climate Change 2 Credit(s).
- SCI 126 - Natural Resource Conservation 2 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).
- Any Study-Away /E-Term Travel Course Credit Hour(s): 3-4
- Any Foreign Language course Credit Hour(s): 3

Total Credit Hours Required in Major (Minor Required): 38

Total Credit Hours Required in Degree: 121

Recreation Leadership (Minor Required), Recreation Management Emphasis, B.S.

Recreation Leadership

The Recreation Leadership program is founded on the principle that healthy recreation and leisure pursuits are critical to the development of the complete individual with a holistic approach to living. The recreation professional, regardless of the specific sector, is crucial in delivering high quality recreation and leisure experiences that impact individuals in meaningful ways. Through experiential and traditional learning environments coupled with direct application of theory and best practices, the Recreation Leadership student will develop core competencies and build on the leadership, critical thinking and problem solving skills necessary for success in a broad range of career settings.

The Recreation Leadership major prepares the student for a variety of recreation settings including local, state and federal agencies, non-profit organizations, recreation services, natural and historic interpretation agencies, as well as commercial enterprises.

Experiential Component (Complete the Following Courses:)

- REC 499 - Internship 4 Credit(s).

Liberal Arts Requirement (4 Credit Hours)

- ESC 102 - Introduction to Environmental Science 4 Credit(s).

Program Specific Requirements (12 Credit Hours)
• ACC 110 - Introduction to Accounting 3 Credit(s).
• ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
• SSC 251 - Introduction to Social Science Research 3 Credit(s).

Choose one of the following courses:
• ESC 302 - Conservation Biology 3 Credit(s).
  OR
• ESC 313 - Natural Resource Management 3 Credit(s).

Common Required Courses (23 Credit Hours)

• REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
• REC 270, 271 to 470, 471 - Recreation Practicum 1 Credit(s).
• REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
• REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
• REC 410 - Recreation Administration 3 Credit(s).
• REC 413 - Recreation Facility Planning, Development, and Maintenance 3 Credit(s).
• REC 440 - Recreation Seminar 3 Credit(s).
• REC 499 - Internship 4 Credit(s).

Recreation Management Emphasis (16 Credit Hours)

Choose one of the following courses:
• REC 103 - Backpacking and Hiking 1 Credit(s). OR
• REC 104 - Rock Climbing and Rappelling 1 Credit(s). OR
• REC 106 - Outdoor Water Sports 1 Credit(s). OR
• REC 107 - Introduction to Fly Fishing 1 Credit(s). OR
• REC 108 - Trail Design and Construction 1 Credit(s). OR
• REC 139 - Orienteering 1 Credit(s).

Complete the following courses:
• REC 319 - Recreation Delivery Systems 3 Credit(s).
• REC 341 - Program Planning and Leadership 3 Credit(s).
• REC 450 - Special Events Planning and Management 3 Credit(s).
• Complete 6 or more credit hours of Required Electives (listed below)

Recreation Leadership Required Electives

• ART 102 - Three-Dimensional Design 3 Credit(s).
• ART 217 - Introduction to Photography 3 Credit(s).
• ART 220 - Introduction to Museum Studies 3 Credit(s). OR
• HIS 220 - Introduction to Museum Studies 3 Credit(s).
• BIO 311 - Field Botany 4 Credit(s).
• BUS 304 - Advertising 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
• ECT 257 - Interpreting Culture and Nature 3 Credit(s).
• ECT 265 - Foundations of Ecotourism 3 Credit(s).
• ECT 357 - Applied Interpretation 3 Credit(s).
• ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
• ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
• ENG 211 - Literature and the Environment 3 Credit(s).
• EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
• EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).
• EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s). OR
• SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
• ESC 205 - Tropical and Marine Ecology 4 Credit(s). (E-Term)
• ESC 206 - Community Ecology of the Southeast 4 Credit(s). (E-Term)
• ESC 208 - Ireland’s Natural History: Interaction of Nature and Culture 4 Credit(s). (E-Term)
• GEO 220 - Physical Geography 4 Credit(s).
• GEO 221 - Geographic Information Systems 4 Credit(s).
• HHP 200 - Health and Wellness Concepts 3 Credit(s).
• HHP 330 - Coaching the Athlete 3 Credit(s).
• REC 325 - Wilderness Leadership 1-3 Credit(s). (non-Outdoor Emphasis only)
• REC 343 - Facilitation of Adventure Pursuits 3 Credit(s). (non-Outdoor Emphasis only)
• REC 372 - Eco-Adventure 3 Credit(s). (E-Term)
• REG 475 - Special Studies in Recreation and Leisure 1-3 Credit(s).
• SCI 123 - Global Ecology and Climate Change 2 Credit(s).
• SCI 126 - Natural Resource Conservation 2 Credit(s).
• SOC 470 - Social Sciences Research 3 Credit(s).
• Any Study-Away /E-Term Travel Course Credit Hour(s): 3-4
• Any Foreign Language course Credit Hour(s): 3

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Social Studies (Minor Required), B.S.

The social studies major is designed for students who seek a broad, but structured and well integrated education in the social sciences. Students can achieve breadth of learning and versatility in its application through this multidisciplinary program of study. Combined with a minor in education, the social studies major is excellent preparation for those planning to teach history, government, or economics at the secondary school level.

For licensure in Social Studies, students must complete EDU 404 Student Teaching and Synthesis Experience.

Experiential Component (Complete 1 of the Following Courses:)

• Any History or Political Science E-Term course
• Any Study Away course which grants academic credit
• HIS 498 - Senior Seminar 3 Credit(s).

Liberal Arts Requirements (12 Credit Hours)
• HIS 201 - American History I 3 Credit(s).
• HIS 202 - American History II 3 Credit(s).
• PSC 101 - American National Government and Politics 3 Credit(s).
• REL 151 - World Religions 3 Credit(s).

Program Specific Requirements (5 Credit Hours)
• COM 201 - Public Speaking 3 Credit(s).
• SCI 121 - Population, Food, and Environment 2 Credit(s).

Required Courses (27 Credit Hours)
• ECO 201 - Principles of Macroeconomics 3 Credit(s).
• HIS 101 - Western Civilization I 3 Credit(s).
• HIS 316 - Virginia History 3 Credit(s).
• HIS 398 - Historiography 3 Credit(s).
• PSC 202 - State and Local Government 3 Credit(s).
• PSC 302 - Political Geography 3 Credit(s).
• PSC 304 - Modern Ideologies 3 Credit(s).

Non-Western History (Choose 3 Credit Hours from the Following List)
• HIS 371 - China 3 Credit(s).
• HIS 373 - India 3 Credit(s).
• HIS 374 - Southeast Asia 3 Credit(s).
• HIS 375 - Sub-Saharan Africa 3 Credit(s).
• HIS 378 - North Africa 3 Credit(s).
• HIS 380 - Latin American History 3 Credit(s).

Major Electives (9 Credit Hours)
• Any 300/400 level HIS or PSC courses

Total Credit Hours Required in Major (Minor Required): 39

Total Credit Hours Required in Degree: 121

Ferrum College offers teaching licensure in Social Studies (grades 6-12) through the selection of a minor in Teacher Education with specialization in Secondary Education. This licensure requires passing state mandated testing prior to
enrollment in EDU 404 Student Teaching and Synthesis Experience. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education Minor) There is no licensure in History.

**Bachelor of Social Work**

**Social Work, B.S.W.**

The social work program at Ferrum College is accredited by the Council on Social Work Education. Field experience is the "signature pedagogy" of the Ferrum College Social Work Program. Our graduates receive the B.S.W. degree which prepares them for the beginning professional generalist practice of social work. Instruction in the program emphasizes the theoretical foundations of beginning generalist social work practice in both rural and urban communities through coursework and extensive experiential learning.

The curriculum focuses on the importance of respect for diversity, advocacy for social and economic justice and empowerment of at-risk populations which are blended throughout an academic presentation of values, ethics, and knowledge for practice of the social work profession. Classroom learning, community-based service learning projects, and supervised direct practice are incorporated into the curriculum. An initial course experience (SWK 299) is recommended and takes place in a community setting within a local social service delivery system. The student is required to complete two semesters of field experiences and concurrent seminars during the senior year while also taking related social work practice courses and the senior capstone course in the final spring semester. The senior participates in an extensive agency experience supervised by both a faculty liaison and a field instructor who has earned the B.S.W. or M.S.W. degree. The program utilizes a broad spectrum of settings for field placements including public and private child welfare agencies, child advocacy programs, physical and behavioral health settings, hospice agencies, nursing and rehabilitation centers, substance abuse and mental health programs, public schools, community action agencies, juvenile court services and adult probation offices. Field placements are developed to fit the students' career objectives. The program values the holistic approach to education as well as a student's need for a total college experience, in addition to focusing on preparation for the beginning professional practice of social work.

**Experiential Component (Complete the Following Courses:)**

- SWK 489 - Senior Field Practicum and Seminar I 3 Credit(s).
- SWK 499 - Field Practicum and Seminar II 9 Credit(s).

**Program Specific Requirements (Choose 6 Credit Hours from the Following List)**

Choose one of the following courses:

- BUS 230 - Computer Applications 3 Credit(s). OR
- CSC 100 - Computer Literacy 3 Credit(s).

Choose one of the following courses:

- ECO 201 - Principles of Macroeconomics 3 Credit(s). OR
- PSC 101 - American National Government and Politics 3 Credit(s). OR
- PSC 202 - State and Local Government 3 Credit(s).

**Admission to the Program**
Students not meeting all the below requirements, due to special circumstances, may be eligible to seek a waiver from the Social Work Program Coordinator.

Concurrent with the semester, or just after, in which the below Liberal Arts Requirements and Pre-Professional courses are completed, students should have completed or plan to enroll in SWK 297 - Professional Preparation Seminar I (usually fall semester sophomore or junior year). This course assists students to review all of the Social Work Major Requirements and prepare to submit the Application to the Professional Social Work Program. The student must complete a formal interview which includes outside social work professionals. Often the interviewers will be Ferrum College BSW alumni. If a student meets all academic requirements, and the application process is approved, then the student may advance to the professional program courses.

Students desiring formal acceptance into the social work major must have earned a minimum GPA of at least a 2.2 overall and in the major courses. In addition, the following course requirements must be completed with a grade of "C" or higher:

**Liberal Arts Requirements (10 Credit Hours)**

- ENG 102 - Composition and Research 3 Credit(s).
- BIO 110 - Introductory Biology 1 4 Credit(s), OR
- SCI 128 - The Healthy Human Body 2 Credit(s), AND
- SCI 129 - The Diseased Human Body 2 Credit(s).
- SOC 101 - General Sociology 3 Credit(s), OR
- SOC 202 - Social Problems 3 Credit(s).

**Pre-Professional Status Requirements (7 Credit Hours)**

- PSY 201 - General Psychology 3 Credit(s).
- SWK 201 - Introduction to Social Work 3 Credit(s).
- SWK 297 - Professional Preparation Seminar I 1 Credit(s).

**Continuation in the Program**

A social work major must successfully complete all courses required in the Professional Status listing below with a minimum grade of "C" or higher. If the student drops below a GPA 2.2 overall or within the major, the student will be removed from the program. The student would have to formally reapply for consideration to be readmitted.

**Required Courses Professional Status (50 Credit Hours)**

- PSY 211 - Human Growth and Development – Child and Adolescent 3 Credit(s), OR
- PSY 212 - Human Growth and Development – Adulthood 3 Credit(s).
- PSY 320 - Abnormal Psychology 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).
- SSC 251 - Introduction to Social Science Research 3 Credit(s).
- SWK 305 - Social Work Practice I 3 Credit(s).
- SWK 321 - Social Welfare Policy: Analysis, Formulation, and Implementation 3 Credit(s).
- SWK 330 - Human Behavior and the Social Environment 3 Credit(s).
- SWK 397 - Professional Preparation Seminar II 1 Credit(s).
- SWK 405 - Social Work Practice II 3 Credit(s).
- SWK 410 - Social Work Practice III 3 Credit(s).
- SWK 489 - Senior Field Practicum and Seminar I 3 Credit(s).
- SWK 497 - Professional Preparation Seminar III 1 Credit(s).
- SWK 498 - Social Work Senior Capstone 3 Credit(s).
- SWK 499 - Field Practicum and Seminar II 9 Credit(s).

Total Credit Hours Required in Major: 57

Total Credit Hours Required in Degree: 121

Prerequisites: Most social work courses have other social work courses as prerequisites; see the course descriptions for details. PSY 201 is a prerequisite for other psychology courses.

Minor

Accounting Minor

Required Courses

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ACC 202 - Principles of Accounting II 3 Credit(s).

Other Courses

- Any 300-400 level ACC courses Credit Hour(s): 12

Total Credit Hours Required: 18

Agriculture Minor

(Not open to Agricultural Science majors)

Required Courses

- AGS 110 - Agriculture Issues 3 Credit(s). OR
• HON 217 - Countdown 2050: Science Literacy in the Anthropocene *3 Credit(s).*
• ASI 201 - Introduction to Animal Science *4 Credit(s).*
• BIO 202 - Introduction to Plant Science *4 Credit(s).*

One of the Following
• CRP 301 - Principles of Field and Forage Crop Production *4 Credit(s).*
• ASI 302 - Animal Nutrition *4 Credit(s).*

Other Agricultural Science Courses
• AGS, AGY, ASI, or HOR at the 300–400 level *Credit Hour(s): 5*

Total Credit Hours Required: 20

Applied Mathematics Minor

Required Courses
• MTH 203 - Concepts in Calculus *3 Credit(s).*
  OR
  MTH 211 - Calculus I *3 Credit(s).*
• MTH 208 - Introductory Statistics *3 Credit(s).*
• Additional Mathematics (at least 3 hours at 300–400 level) *Credit Hour(s): 6*
• Applied classes (at least 3 hours at 300–400 level) *Credit Hour(s): 6*

Additional Courses
• Mathematics or Applied Course (300–400 level) *Credit Hour(s): 3*

Applied Courses

List of Applied Courses (applied courses require that half of the class's assignments and tests be quantitative. If the class is 300 or 400 level, it should include calculus, statistics, linear algebra or discrete mathematics as part of the quantitative assignments.)
• ACC 301 - Managerial Accounting *3 Credit(s).*
• ACC 401 - Advanced Studies in Cost Accounting *3 Credit(s).*
• ACC 403 - Auditing *3 Credit(s).*
• AGS 314 - Animal and Plant Breeding and Genetics *4 Credit(s).*
• BIO 305 - Introductory Genetics *4 Credit(s).*
• BUS 330 - Quantitative Methods: Management *3 Credit(s).*
- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).
- CSC 312 - Computer Organization 3 Credit(s).
- CSC 320 - Programming Using C++ 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 313 - Money and Banking 3 Credit(s).
- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
- ECO 330 - International Trade 3 Credit(s).
- ESC 202 - Quantitative Environmental Methods and Statistics 4 Credit(s).
- ESC 421 - Pollution Science 4 Credit(s).
- HON 205 - Decision-Making and Problem Solving with Mathematics 3 Credit(s).
- PHI 101 - Logic 3 Credit(s).
- PHY 203 - Fundamentals of Physics 4 Credit(s).
- PHY 204 - Fundamentals of Physics 4 Credit(s).
- PSC 300 - Research Methods 3 Credit(s).
- PSY 306 - Intro to Research Methods and Statistics 3 Credit(s).
- SOC 470 - Social Sciences Research 3 Credit(s).

Total Credit Hours Required: 21

**Art-Graphic Design Minor**

(Not open to Art majors)

**Required Foundation Courses**

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 130 - The Color Course 3 Credit(s).

**Required Introduction to Media Courses**

- ART 222 - Basic Computer Graphics 3 Credit(s).

**Required Art History and Theory Courses**

- ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

**Required Studio Practice Courses**

- ART 215 - Photoshop 3 Credit(s).
- ART 322 - Graphic Print Media 3 Credit(s).
- ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).

Total Credit Hours Required (at Least 9 at the 300-400 Level): 21
Art-Studio Arts Minor

Required Foundation Courses

Select 6 credit hours from the following:

- ART 101 - Two-Dimensional Design 3 Credit(s).
- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 104 - Drawing Fundamentals 3 Credit(s).

Required Introduction to Media Courses

Select 6 credit hours from the following:

- ART 204 - Intermediate Drawing 3 Credit(s).
- ART 206 - Introduction to Ceramics 3 Credit(s).
- ART 215 - Photoshop 3 Credit(s).
- ART 217 - Introduction to Photography 3 Credit(s).
- ART 220 - Introduction to Museum Studies 3 Credit(s).
- ART 222 - Basic Computer Graphics 3 Credit(s).
- ART 228 - Introduction to Sculpture 3 Credit(s).
- ART 230 - The Painting Studio 3 Credit(s).
- ART 232 - Web Design X 3 Credit(s).
- ART 324 - Art for Educators 3 Credit(s).

Required Art History and Theory Courses (3 Credit Hours)

- ART 325 - Modern Art and the Twentieth Century 3 Credit(s).

Required Studio Practice Courses

Select 6 credit hours from the following:

- ART 304 - Advanced Drawing 3 Credit(s).
- ART 306 - Intermediate Ceramics 3 Credit(s).
- ART 317 - Intermediate Photography 3 Credit(s).
- ART 328 - Intermediate Sculpture 3 Credit(s).
- ART 330 - Intermediate Painting 3 Credit(s).
- ART 322 - Graphic Print Media 3 Credit(s).
- ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).
- ART 411 - Figure and Anatomy 3 Credit(s).

Total Credit Hours Required (at Least 9 at the 300-400 Level): 21
Biology Minor

Required Courses

- BIO 201 - Vertebrate Zoology 4 Credit(s).
  OR
- BIO 301 - Invertebrate Zoology 4 Credit(s).
  OR
- BIO 254 - Human Anatomy and Physiology I 4 Credit(s).

- BIO 202 - Introduction to Plant Science 4 Credit(s).
  OR
- BIO 306 - Nonvascular Plants and Fungi 4 Credit(s).

- Other Biology courses (at least 7 hours from 300-400 level) Credit Hour(s): 12

Total Credit Hours Required: 20

Business Minor

Required Courses

- ACC 201 - Principles of Accounting I 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).

Choose 12 Credit Hours from the Following

- ACC 202 - Principles of Accounting II 3 Credit(s).
- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- Upper division 300-400 level Business courses Credit Hour(s): 6-12

Total Credit Hours Required: 18

Chemistry Minor

Required Courses

- CHM 103 - General Chemistry I 4 Credit(s).
- CHM 104 - General Chemistry II 4 Credit(s).
• CHM 105 - Introduction to Organic and Biochemistry 4 Credit(s).
  OR
• CHM 301 - Organic Chemistry I 4 Credit(s).
  OR
• CHM 341 - Physical Chemistry I 3 Credit(s).

• 9 additional hours of Chemistry, (at least 7 must be at the 300-400 level) Credit Hour(s): 9

Total Credit Hours Required: 20-21

Coaching Minor

Required Courses

• BIO 254 - Human Anatomy and Physiology I 4 Credit(s).
• BIO 255 - Human Anatomy and Physiology II 4 Credit(s).
• HHP 206 - Introduction to Athletic Injuries 3 Credit(s).
• HHP 330 - Coaching the Athlete 3 Credit(s).
• HHP 355 - Physiology of Exercise 3 Credit(s).
• HHP 402 - Organization and Administration of Sport 3 Credit(s).

Total Credit Hours Required: 20

Computer Science Minor

Required Courses

• CSC 320 - Programming Using C++ 3 Credit(s).
• CSC 321 - Data Structures 3 Credit(s).
• Other Computer Science courses (200 level or above, at least 9 at 300-400 level) Credit Hour(s): 12

Total Credit Hours Required: 19

Computer Technology Minor

NOTE: The Computer Technology minor may not be declared by CSC majors.

Choose from the Following (at Least 9 Hours at the 300-400 Level)

• Any CSC course (Excluding CSC 499 - Internship) Credit Hour(s): 3-4
• ACC 408 - Accounting Software Applications 3 Credit(s).
• ART 201 - Computer Art and Graphics I Credit Hour(s): 3
• BUS 318 - Introduction to Electronic Commerce 3 Credit(s).
• BUS 325 - Advanced Computer Applications 3 Credit(s).
• BUS 430 - Management Information Systems 3 Credit(s).

• CSC 100 - Computer Literacy 3 Credit(s).
  OR
• BUS 230 - Computer Applications 3 Credit(s). (cannot count both BUS 230 and CSC 100)

Total Credit Hours Required: 18

Criminal Justice Minor

Required Courses

• CJU 201 - Introduction to Criminal Justice 3 Credit(s).
• CJU 204 - Fundamentals of Corrections 3 Credit(s).
• CJU 220 - Criminal Law 3 Credit(s).

• CJU 320 - Deviance and Social Control 3 Credit(s).
  OR
• SOC 320 - Deviance and Social Control 3 Credit(s).

• Any CJU courses not listed above, at least two courses (6 hours) at 300-400 level Credit Hour(s): 6

Total Credit Hours Required: 18

Cybersecurity Minor

Required Courses

• CSC 102 - Hardware Maintenance and Troubleshooting 3 Credit(s).
• CSC 145 - Social Networking Best Practices 3 Credit(s).
• CSC 245 - Networking Fundamentals 3 Credit(s).
• CSC 345 - Advanced Networking Configuration and Management 3 Credit(s).
• CSC 350 - Operating Systems 3 Credit(s).
• CSC 435 - Fundamentals of Cybersecurity 3 Credit(s).
• CSC 445 - Digital Forensics and Cybercrime 3 Credit(s).

Total Credit Hours Required: 21
Economics Minor

Required Courses

- ECO 201 - Principles of Macroeconomics 3 Credit(s).
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- Any 300-400 level courses in Economics Credit Hour(s): 12

Total Credit Hours Required: 18

Ecotourism Minor

One of the fastest growing and most significant trends of today's tourism industry, Ecotourism is defined as sustainable tourism responsible to natural and scenic areas that encourages environmental and cultural conservation while promoting local economic development. A minor in Ecotourism will equip Ferrum College students to be industry leaders in a rapidly expanding field.

Required Courses (18 Credit Hours)

- ECT 165 - World Ecotourism Destinations and Cultures 3 Credit(s).
- ECT 265 - Foundations of Ecotourism 3 Credit(s).
- ECT 257 - Interpreting Culture and Nature 3 Credit(s).
- ECT 357 - Applied Interpretation 3 Credit(s).
- ECT 421 - Issues in Sustainable and Ecotourism 3 Credit(s).
- ESC 302 - Conservation Biology 3 Credit(s).
- REC 410 - Recreation Administration 3 Credit(s). *

Electives

*Recreation Leadership majors: REC 410 is included in the Recreation Major. Please select a 3 credit substitute courses from the electives list below.

- ART 102 - Three-Dimensional Design 3 Credit(s).
- ART 217 - Introduction to Photography 3 Credit(s).
- ART 220 - Introduction to Museum Studies 3 Credit(s).
  OR
- HIS 220 - Introduction to Museum Studies 3 Credit(s).
- BIO 311 - Field Botany 4 Credit(s).
- BUS 311 - Marketing 3 Credit(s).
- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
- ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
- ENG 211 - Literature and the Environment 3 Credit(s).
- EPD 201 - Introduction to Environmental Planning and Development I 3 Credit(s).
- EPD 202 - Introduction to Environmental Planning and Development II 4 Credit(s).
- EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
  OR
- SOC 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
- ESC 205 - Tropical and Marine Ecology 4 Credit(s). (E-Term)
- ESC 206 - Community Ecology of the Southeast 4 Credit(s). (E-Term)
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s). (E-Term)
- GEO 220 - Physical Geography 4 Credit(s).
- GEO 221 - Geographic Information Systems 4 Credit(s).
- REC 325 - Wilderness Leadership I 3 Credit(s). (non-Outdoor Emphasis only)
- REC 343 - Facilitation of Adventure Pursuits 3 Credit(s). (non-Outdoor Emphasis only)
- REC 372 - Eco-Adventure 3 Credit(s). (E-Term)
- REC 475 - Special Studies in Recreation and Leisure 1-3 Credit(s).
- SCI 123 - Global Ecology and Climate Change 2 Credit(s).
- SCI 126 - Natural Resource Conservation 2 Credit(s).
- Any Foreign Language course Credit Hour(s): 3

Total Credit Hours Required: 21

**English Minor**

**Required Course**

- ENG 398 - Junior Seminar 1 Credit(s).

**Required ENG Electives (18 Credit Hours)**

ENG beyond ENG 101 and 102; 6 credits of which much be at the 300-400 level and no more than 3 credits of which may be in Journalism Practicum or Creative Arts Practicum. Students are encouraged to take ENG 498, but it is not required.

Total Credit Hours Required: 19

Students should not follow this minor if they plan to go into the Teacher Education Program. Those students should see the English endorsement area under the English major.

**Environmental Science Minor**
Required Courses

- ESC 102 - Introduction to Environmental Science 4 Credit(s).
- ESC 203 - Fundamentals of Ecology 4 Credit(s).
- Other Environmental Science courses (at least 7 hours from 300-400 level) Credit Hour(s): 13

Total Credit Hours Required: 21

Forensic Science Minor

Required Courses

- BIO 111 - Introductory Biology II 4 Credit(s).
- CHM 301 - Organic Chemistry I 4 Credit(s).
- CHM 302 - Organic Chemistry II 4 Credit(s).
- CHM 331 - Forensic Science 4 Credit(s).
- CJU 335 - Introduction to Forensic Investigations 3 Credit(s).

Prerequisite Liberal Arts Requirements

- CHM 103 - General Chemistry I 4 Credit(s).

OR

- CHM 104 - General Chemistry II 4 Credit(s).

Total Credit Hours Required: 19

History Minor

Required Course

- HIS 398 - Historiography 3 Credit(s).

Choose 6 Credit Hours from the Following

- HIS 101 - Western Civilization I 3 Credit(s).
- HIS 102 - Western Civilization II 3 Credit(s).
- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).
Total Credit Hours Required: 18

Horticulture Minor

Required Courses

- BIO 202 - Introduction to Plant Science 4 Credit(s).
- HOR 410 - Greenhouse Management 4 Credit(s).
- Other Horticulture courses (at least 5 hours from 300-400 level) Credit Hour(s): 12

Total Credit Hours Required: 20

International Studies Minor

Required Courses

- PSC 203 - International Politics 3 Credit(s).
- PSC 205 - Comparative Government 3 Credit(s).
- Other courses from International Studies course listing at 300-400 level Credit Hour(s): 15

Total Credit Hours Required: 21

Journalism Minor

The journalism program is designed for students interested in pursuing professional careers and further study in reporting, editing, public relations, and media law. The journalism minor requires a three-hour internship or approved alternative. **

Required Courses

- COM 101 - Introduction to Mass Communication 3 Credit(s).
- ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s). (one hour each, students choose three courses)
  OR
- COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s). (one hour each, students choose three courses)
- ENG 310 - Media Law and Ethics 3 Credit(s).
- ENG 311 - News Writing and Editing 3 Credit(s).
- ENG 499 - Internship 3, 4, 5 or 6 Credit(s).
Choose 3 Credit Hours from the Following

- COM 271 - On-line Media 3 Credit(s).
- COM 433 - Media Scriptwriting 3 Credit(s).
- ENG 312 - Feature Writing and Production 3 Credit(s).
- ENG 315 - Media Management 3 Credit(s).
- ENG 338 - Rhetoric 3 Credit(s).
- ENG 398 - Junior Seminar 1 Credit(s). AND
- ENG 498 - Senior Seminar 2 Credit(s).
- ENG 461 - Professional Writing 3 Credit(s).
- PSC 308 - Media and Politics 3 Credit(s).
- PSC 491 - Topics in Political Science 3 Credit(s). (when offered as Media and Politics)

Total Credit Hours Required: 18

**Journalism minors may not major in English due to the College's guidelines that no more than 39 hours in any major/minor combination may be drawn from the same academic discipline.

Mathematics Minor

Required Courses

- MTH 211 - Calculus I 3 Credit(s).
- Additional Mathematics (200-level or above, at least 9 at 300-400 level, not to include MTH 320) Credit Hour(s): 15

Total Credit Hours Required: 18

Algebra I Add-on Endorsement for Teacher Licensure

Students who are seeking an add-on endorsement in Mathematics (Algebra I), must complete the courses listed below. Add-on endorsements must be combined with an initial licensure program in another content area. (See the Teacher Education Minor.)

Courses Required for an Add-on Endorsement

*Students who come to Ferrum College with a strong background in Algebra and Trigonometry may choose to take MTH 211 and MTH 221 without taking MTH 111 and MTH 112. Students who complete this add on endorsement must have at least 24 credit hours of related coursework. To receive a minor in Mathematics students must have 18 credit hours of Mathematics at the 200 level or above.

- MTH 208 - Introductory Statistics 3 Credit(s).
- MTH 211 - Calculus I 3 Credit(s).
• MTH 221 - Calculus II 3 Credit(s).
• MTH 234 - Mathematical Reasoning 3 Credit(s).
• MTH 243 - Discrete Mathematics 3 Credit(s).
• MTH 246 - Linear Algebra 3 Credit(s).
• MTH 324 - Elements of Geometry and Number Theory 3 Credit(s).

• CSC 320 - Programming Using C++ 3 Credit(s).

OR

• CSC 225

Total Credit Hours Required: 24-25

Media and Communication Minor

The Media and Communication minor is for students who are interested in pursuing careers and further education in such areas as radio and television broadcasting, multi-media journalism, public relations, corporate communications, audio reproduction, film making, audio, and online media creation. This program has been designed to help students assimilate the knowledge, skills, and production ethics that will enable them to create high quality media-borne messages, and thereby advance their chosen career.

Required Courses

• COM 101 - Introduction to Mass Communication 3 Credit(s).
• COM 304 - Communication Research 3 Credit(s).
• COM 369 - Mass Media and Behavior 3 Credit(s).

Choose 9 Credit Hours from the Following (at Least 3 Credit Hours Must be 300-400 Level)

• ANA 271 - Business Statistics with Statistical Software 3 Credit(s).
• ART 215 - Photoshop 3 Credit(s).
• ART 217 - Introduction to Photography 3 Credit(s).
• ART 222 - Basic Computer Graphics 3 Credit(s).
• ART 232 - Web Design X 3 Credit(s).
• ART 317 - Intermediate Photography 3 Credit(s).
• ART 322 - Graphic Print Media 3 Credit(s).
• ART 332 - Graphic Design: Typography & Logo Systems 3 Credit(s).
• ART 417 - Advanced Photography 3 Credit(s).
• BUS 230 - Computer Applications 3 Credit(s).
• BUS 304 - Advertising 3 Credit(s).
• BUS 308 - Business Communications 3 Credit(s).
• BUS 311 - Marketing 3 Credit(s).
• COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar 1 Credit(s).
• COM 190, 290, 390 or 490 - Special Topics in Media and Communication 3 Credit(s).
• COM 201 - Public Speaking 3 Credit(s).
• COM 211 - Radio Broadcasting Methods 3 Credit(s).
• COM 223 - Basic Audio Recording 3 Credit(s).
• COM 235 - Fundamental of TV and Video Production 3 Credit(s).
• COM 236, 237 to 436, 437 - Video Production Practicum 1 Credit(s).
• COM 271 - On-line Media 3 Credit(s).
• COM 323 - Stage Audio 3 Credit(s).
• COM 335 - Advanced Video Production 3 Credit(s).
• COM 359 - Documentary Photography 3 Credit(s).
• COM 433 - Media Scriptwriting 3 Credit(s).

• CSC 101 - Introduction to Computers and Computer Information Systems 3 Credit(s).

OR

• CSC 125 - Concepts in Computer Information Systems 3 Credit(s).

• CSC 230 - Web Design 3 Credit(s).
• ENG 131, 132 to 431, 432 - Journalism Practicum 1 Credit(s).
• ENG 141, 142 to 441, 442 - Creative Arts Practicum 1 Credit(s).
• ENG 221 - Introduction to Film 3 Credit(s).
• ENG 310 - Media Law and Ethics 3 Credit(s).
• ENG 311 - News Writing and Editing 3 Credit(s).
• ENG 312 - Feature Writing and Production 3 Credit(s).
• ENG 315 - Media Management 3 Credit(s).
• ENG 338 - Rhetoric 3 Credit(s).
• ENG 433 - Small Group Communication 3 Credit(s).
• ENG 461 - Professional Writing 3 Credit(s).
• HON 213 - Media and Violence 3 Credit(s).
• PSC 308 - Media and Politics 3 Credit(s).
• REL 216 - Religion in Film 3 Credit(s).
• THA 203 - Video Production Workshop 3 Credit(s).
• THA 222 - Voice and Diction 3 Credit(s).

Total Credit Hours Required: 18

Music Minor

Required Courses (6 Credit Hours)

• MUS 105 - Music Theory I 2 Credit(s).
• MUS 106 - Aural Skills Lab I 1 Credit(s).
• MUS 107 - Music Theory II 2 Credit(s).
• MUS 108 - Aural Skills Lab II 1 Credit(s).

Minor Electives (Choose 6 Credit Hours)

Select 6 credit hours. One course must include either MUS 358 or MUS 359.
MBU 201 - Music Business I 3 Credit(s).
MUS 310 - Introduction to Conducting 1 Credit(s).
MUS 358 - Music: Baroque and Classic Periods 3 Credit(s).
MUS 359 - Music: Romantic and Modern Periods 3 Credit(s).
MUS 426 - Music for Children 3 Credit(s).
MUS 428 - Foundations in Music Education 2 Credit(s).
MUS 480 - Music Seminar: Advanced Topics in Performance 3 Credit(s).

Performance Courses (Choose 4 Credit Hours)

Choose 4 credit hours from the following:

- MUS 111, 112 to 411, 412 - Concert Choir 1 Credit(s).
- MUS 117, 118 to 417, 418 - Collegiates 1 Credit(s).
- MUS 119, 120 to 419, 420 - Band 1 Credit(s).
- MUS 121, 122 to 421, 422 - Handbell Ensemble 1 Credit(s).
- MUS 123, 124 to 423, 424 - Jazz Combo 1 Credit(s).

Lesson Courses (Choose 2 Credit Hours:)

Choose 2 credit hours from the following:

- MUS 143, 144 - Piano Class 1 Credit(s).
- MUS 153 - Voice Class 1 Credit(s). (a must for Musical Theatre minor)
- MUS 154 - Voice Class 1 Credit(s). (a must for Musical Theatre minor)
- MUS 151, 152 to 451, 452 - Private Music Lessons 1 Credit(s).
- MUS 161, 162 to 461, 462 - Applied Music Lessons 2 Credit(s).

Total Credit Hours Required (at least 9 at 300-400 level): 18

One Health Minor

A minor in One Health will expand a student's understanding of human, animal and environmental health and emphasize the interdependence of topics in these areas. Students will increase their skills in quantitative data collection and analysis, as well as analyze the impacts of health issues on societies at all levels: local, national and global. A student majoring in any of the sciences would benefit from the interdisciplinary focus of this rapidly emerging discipline.

Required Courses (11 Credit Hours)

- PPH 110 - Introduction to One Health 4 Credit(s).
- ASI 201 - Introduction to Animal Science 4 Credit(s).
- NSM 398 - Junior Seminar 3 Credit(s). OR
- NSM 498 - Senior Seminar 3 Credit(s).
  Paper topic must have a One Health emphasis and be approved by the Program Coordinator.

One Health Elective Courses (7 Credit Hours)

At least one course must be chosen from outside the student's major field of study.

- AGS 314 - Animal and Plant Breeding and Genetics 4 Credit(s).
- ASI 302 - Animal Nutrition 4 Credit(s).
- ASI 316 - Domestic Animal Anatomy and Physiology 4 Credit(s).
- BIO 303 - Microbiology 4 Credit(s).
- BIO 305 - Introductory Genetics 4 Credit(s).
- BIO 315 - Animal Behavior 3 Credit(s).
- BIO 320 - Human Nutrition 3 Credit(s).
- BIO 410 - Immunology 3 Credit(s).
- BIO 413 - Animal Diseases 3 Credit(s).
- CHM 420 - Medicinal Chemistry 3 Credit(s).
- CRP 301 - Principles of Field and Forage Crop Production 4 Credit(s).
- CRP 315 - Soil Science and Management 4 Credit(s).
- ESC 421 - Pollution Science 4 Credit(s).
- ESC 424 - Environmental Toxicology 3 Credit(s).
- HOR 415 - Plant Diseases 4 Credit(s).
- HOR 418 - Plant Pest Management 4 Credit(s).

Total Credit Hours Required in Minor: 18

Outdoor Recreation Minor

Use of the natural environment is an integral part of the curriculum and is supported by the Ferrum College Outdoors program. By providing opportunities for the student body to participate in adventure pursuits, Ferrum College Outdoors affords the Outdoor Recreation minor the opportunity to develop, implement and evaluate programs while gaining valuable technical and leadership skills. NOTE: Outdoor Recreation minor cannot be taken in conjunction with the Recreation Leadership major. Please select Outdoor Recreation Specialist emphasis area within the major.

Required Courses

- REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
- REC 325 - Wilderness Leadership I 3 Credit(s).
- REC 343 - Facilitation of Adventure Pursuits 3 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
- REC 361 - Outdoor Education 3 Credit(s).
Select 3 Credit Hours from the Following

- REC 103 - Backpacking and Hiking 1 Credit(s).
- REC 104 - Rock Climbing and Rappelling 1 Credit(s).
- REC 106 - Outdoor Water Sports 1 Credit(s).
- REC 107 - Introduction to Fly Fishing 1 Credit(s).
- REC 108 - Trail Design and Construction 1 Credit(s).
- REC 139 - Orienteering 1 Credit(s).

Total Credit Hours Required: 21

Philosophy Minor

Required Courses

- PHI 101 - Logic 3 Credit(s).
  OR
- PHI 211 - Ethics 3 Credit(s).

- PHI 221 - Survey of Ancient and Medieval Philosophy 3 Credit(s).
- PHI 222 - Survey of Modern Philosophy 3 Credit(s).

An additional 9 hours of Philosophy at the 300-400 level Credit Hour(s): 9

Total Credit Hours Required: 18

Physics Minor

Required Courses

- PHY 203 - Fundamentals of Physics 4 Credit(s).
- PHY 204 - Fundamentals of Physics 4 Credit(s).

Choose 10 Credit Hours from the Following

(PHY 190, 290, 390 or 490 are Special Topics courses which may be taken repeatedly in different areas of study. Contact a member of the physics faculty to discuss possibilities.)

- CHM 341 - Physical Chemistry I 3 Credit(s).
- CHM 342 - Physical Chemistry II 3 Credit(s).

Choose Upper-Level Course(s) from sequence:

- PHY 190, 290, 390 or 490 - Special Topics 1-4 Credit(s).
Total Credit Hours Required: 18-20

Political Science Minor

Required Courses

- PSC 101 - American National Government and Politics 3 Credit(s).
- PSC 203 - International Politics 3 Credit(s).
  OR
- PSC 205 - Comparative Government 3 Credit(s).
- PSC 303 - Political Theory from Socrates to Locke 3 Credit(s).
  OR
- PSC 304 - Modern Ideologies 3 Credit(s).
- PSC 399 - Citizenship and Service Learning 3 Credit(s).
- Any Other Political Science courses except PSC 499 - Internship (at the 300-400 level) Credit Hour(s): 6

Total Credit Hours Required: 18

Psychology Minor

Required Courses

- PSY 201 - General Psychology 3 Credit(s).
- Additional from Psychology Major Course Listing (at least 9 at 300-400 level) Credit Hour(s): 15

Total Credit Hours Required: 18

Public History and Museum Studies

The minor in Public History and Museum Studies trains students to critically evaluate the public presentation of history and culture. It helps students develop skills that will allow them to go on to graduate study in a variety of fields as well as professional or a vocational work at cultural or historical sites. Coursework in a wide range of academic disciplines and hands-on experience enable an understanding of the pedagogical approaches used to examine memory and history and provide practical training in historic preservation, community documentation, museum work, and cultural program development.

Prerequisite Liberal Arts Core Courses (6 Credit Hours)
Complete the following prerequisite courses:
- HIS 201 - American History I 3 Credit(s).
- HIS 202 - American History II 3 Credit(s).

Required Courses (9 Credit Hours)
- BUS 151 - Introduction to U.S. and Global Business 3 Credit(s).
- HIS 316 - Virginia History 3 Credit(s).
- HIS 220 - Introduction to Museum Studies 3 Credit(s).
  OR
- ART 220 - Introduction to Museum Studies 3 Credit(s).

Internship at 300-400 Level (3 Credit Hours)
Internship at 300-400-level approved by History Program Coordinator. Three Credits.

Choose 2 Elective Courses (6-8 Credit Hours)
Choose 2 courses from the following list of electives:
- AGS 218 - Regional Experiences in Agriculture 4 Credit(s).
- AGS 228 - Introduction to Equine Assisted Activities & Therapies (EAAT) 4 Credit(s).
- AGS 417 - Farm Business Management 3 Credit(s).
- ASI 325 - Stable Management 3 Credit(s).
- ECT 257 - Interpreting Culture and Nature 3 Credit(s).
- ECT 357 - Applied Interpretation 3 Credit(s).
- ECT 391 - Cultural and Heritage Tourism 3 Credit(s).
- ENG 222 - Introduction to Popular Culture 3 Credit(s).
- EPD 392 - Eco-Social Justice: Issues and Applications 3 Credit(s).
- ESC 208 - Ireland's Natural History: Interaction of Nature and Culture 4 Credit(s).
- HIS 318 - The American West in History and Memory 3 Credit(s).
- HIS 383 - Caribbean Environmental History 3 Credit(s).
- HON 213 - Media and Violence 3 Credit(s).
- HON 215 - Science and Art 4 Credit(s).
- HON 216 - The Sixties 3 Credit(s).
- HUM 200 - The Holocaust: Past, Present, and Future 3 Credit(s).
- HUM 300 - The Holocaust: Past, Present, and Future 3 Credit(s).
- HUM 302 - African-American Studies: Forty Years and a Dream 3 Credit(s).
- PSC 399 - Citizenship and Service Learning 3 Credit(s).
- REC 319 - Recreation Delivery Systems 3 Credit(s).
- REC 360 - Recreation Leadership Theory and Philosophy 3 Credit(s).
- SSG 301 - Social Entrepreneurial Leadership 3 Credit(s).
- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SOC 204 - Sociology of Sport 3 Credit(s).
- SOC 303 - Cultural Diversity Applications in Schools and Society 3 Credit(s).
- SOC 340 - Collective Behavior and Social Movements 3 Credit(s).
Recreation Leadership Minor

Required Courses

- REC 260 - Foundations of Recreation and Leisure 3 Credit(s).
- REC 341 - Program Planning and Leadership 3 Credit(s).
- REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration 3 Credit(s).
- REC 410 - Recreation Administration 3 Credit(s).
- Select 6 credits from within Recreation Leadership Major, Outdoor Recreation Minor or Ecotourism Minor Credit Hour(s): 6

Total Credit Hours Required: 19

Religion Minor

Required Courses

*Students who take REL 111 will not receive credit for REL 112 or REL 113.

- REL 111 - Literature of the Bible 3 Credit(s). *
  OR
- REL 112 - Literature of the Old Testament 3 Credit(s).
  OR
- REL 113 - Literature of the New Testament 3 Credit(s).
- Other Religion courses including HON 206 or HON 225 (at least 6 hours from 300-400 level) Credit Hour(s): 15

Total Credit Hours Required: 18

Social Entrepreneurship Minor

Required Courses

*Note: ACC 201 and ACC 202 may be substituted for ACC 110.

- ACC 110 - Introduction to Accounting 3 Credit(s). *
- ECO 202 - Principles of Microeconomics 3 Credit(s).
- SOC 202 - Social Problems 3 Credit(s).
- SSC 301 - Social Entrepreneurial Leadership 3 Credit(s).
Required Experiential Learning (1 to 3 Credit Hours)

**Note:** If Internship course or BUS 190, 290 or 390 is selected, it must involve an entity that addresses social needs.

- ACC 290, 390, or 490 - Accounting Practicum 1 Credit(s). (VITA)
- ACC 499 - Accounting Internship 3 Credit(s). **
- BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation 1 Credit(s). **
- BUS 291, 292 to 491 - Service Learning Experiences in Business Administration 1 Credit(s).
- BUS 499 - Internship 3 Credit(s). **

Select Two of the Following Courses (6 Credit Hours)

- ECO 315 - Environmental and Natural Resource Economics 3 Credit(s).
- ECO 430 - Development Economics 3 Credit(s).
- SOC 101 - General Sociology 3 Credit(s).
- SOC 310 - Social Class and Inequality 3 Credit(s).
- SOC 330 - Organizations and Behavior 3 Credit(s).

Total Credit Hours Required: 19-24

Social Work Minor

Required Courses

- SWK 201 - Introduction to Social Work 3 Credit(s).

- ECO 202 - Principles of Microeconomics 3 Credit(s).
  OR
- PSC 101 - American National Government and Politics 3 Credit(s).
  OR
- PSC 202 - State and Local Government 3 Credit(s).

- SOC 203 - Sociology of U.S. Cultural Diversity 3 Credit(s).
- SWK 330 - Human Behavior and the Social Environment 3 Credit(s).

3 Credit Hours from the Following

- SWK 350 - Substance Abuse: Interventive Techniques 3 Credit(s).
- SWK 355 - Child Welfare Systems and Services 3 Credit(s).
- SWK 329 - Foundations of Adventure Based Counseling 3 Credit(s).

Total Credit Hours Required: 18
**Sociology Minor**

**Required Courses**

- SOC 101 - General Sociology *3 Credit(s).*
- SOC 202 - Social Problems *3 Credit(s).*

**12 Credit Hours (at Least 9 at the 300 Level or Above) from the Following**

- HUM 300 - The Holocaust: Past, Present, and Future *3 Credit(s).* (only if taken as SOC credit)
- PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality *3 Credit(s).*
- PSC 366 - Political Evil *3 Credit(s).*
- PSY 230 - Social Psychology *3 Credit(s).*
- SOC 203 - Sociology of U.S. Cultural Diversity *3 Credit(s).*
- SOC 204 - Sociology of Sport *3 Credit(s).*
- SOC 205 - Marriage and the Family *3 Credit(s).*
- SOC 207 - Sociology of Sex and Gender Roles *3 Credit(s).*
- SOC 301 - Classical Social Theory *3 Credit(s).*
- SOC 303 - Cultural Diversity Applications in Schools and Society *3 Credit(s).*
- SOC 310 - Social Class and Inequality *3 Credit(s).*
- SOC 320 - Deviance and Social Control *3 Credit(s).*
- SOC 330 - Organizations and Behavior *3 Credit(s).*
- SOC 333 - Population Dynamics *3 Credit(s).*
- SOC 340 - Collective Behavior and Social Movements *3 Credit(s).*
- SOC 370 - Introduction to Field Based Case Study Research *3 Credit(s).*
- SOC 391 - Directed Study in Sociology 1-3 *Credit(s).*
- SOC 392 - Eco-Social Justice: Issues and Applications *3 Credit(s).*
- SOC 401 - Survey of Modern Era Social Theory *3 Credit(s).*
- SOC 450 - Changing Roles in the Life Course *3 Credit(s).*
- SOC 470 - Social Sciences Research *3 Credit(s).*

**Total Credit Hours Required: 18**

**Spanish Minor**

**12 Credit Hours from the Following**

- SPA 301 - Advanced Grammar and Composition *3 Credit(s).*
- SPA 302 - Advanced Speaking and Comprehension *3 Credit(s).*
- SPA 320 - Introduction to Literature in Spanish *3 Credit(s).*
Teacher Education Minor

Any student wishing to prepare for careers teaching in PreK-12 setting may do so by selecting the minor in teacher education in conjunction with a major appropriate to the areas in which he/she wishes to teach. Students who complete the program successfully work with the Registrar to apply for licensure by completing the forms that can be obtained from the Office of the Registrar, paying a fee, and returning his/her application to the Office of the Registrar at Ferrum College.

Ferrum College's teacher preparation program is built upon the following premises that the teacher candidate will:

- gain expertise in creating, facilitating, and evaluating meaningful, developmentally appropriate learning exercises with students.
- construct a world view of teaching and learning through the acquisition of an historical, theoretical, and philosophical context for analysis and decision-making.
- display a commitment to professional standards, responsible behavior, and a collaborative stance towards peers. The commitment is reflected in the following:
  1. Actions based upon informed decisions predicated on research about effective teaching and actual field experiences.
  2. The utilization of a continuing self-assessment and professional development process.
  3. The tendency to access and incorporate a wide variety of resources into one's teaching.
- be receptive to the contention that:
  1. all students can be reached and all students can learn;
  2. global and multicultural agendas should be woven into the curriculum;
  3. student choice and empowerment are essential;
  4. students need to be involved and increasingly responsible for their own learning; and experience should be an essential part of learning.

Admission to the Program:

Course Sequence

The standards and course sequence are carefully crafted to provide program candidates a rich professional experience. It is highly recommended that students plan carefully in order to take advantage of the professional development plan designed to prepare program candidates for the profession of teaching. Coursework for the minor in the Teacher Education Program can begin in the freshman year with students taking the following prerequisite courses:

- PSY 201
- PSY 211 with PSY 291 LAB (All elementary and All-level candidates must enroll in PSY 291 the same semester as PSY 211; PSY 291 is not required for secondary candidates)

Students must demonstrate a commitment through the following requirements:

- Cumulative grade point average (GPA) MINIMUM – 2.5
- Students must successfully complete the following courses with a "C" or higher:
  - ENG 101 & ENG 102
  - MTH 105 (or higher)
  - PSY 201, PSY 211 & PSY 291 (if required)
  - and the chosen lab science(s)

A plan for Teacher Education Program (EDU) candidate coursework follows:

Recommended for second semester freshmen

- SPD 220 (fall or spring) is required for all students

**Sophomore:**

- EDU 202 (fall or spring) – requires students take and pass the Virginia Communication and Language Assessment (VCLA).
- EDU 203 may be taken in the spring of the sophomore year and required students to take and pass specified Praxis Core Academic Skills for Educators (PCAS) components necessary to be considered a candidate in the Teacher Education Program.

***At this point, if a student has successfully completed 40 credit hours, EDU 202, EDU 203 and have all other program standard components (GPA requirements, testing requirements, grades in specific course requirement, etc.), he/she must complete a formal application to enter the Teacher Education Program minor. The application will be reviewed and an interview will be scheduled. Upon acceptance after the interview, a student will be formally entered into the Teacher Education Program minor. Only students who are FORMALLY accepted into the Teacher Education Program minor may continue in EDU courses as a candidate for licensure. *** STUDENTS MUST BE IN COMPLIANCE WITH ALL PREVIOUS PROGRAM REQUIREMENTS AND BE FORMALLY ACCEPTED INTO THE TEACHER EDUCATION PROGRAM TO CONTINUE. ***

**Junior:**

- EDU 310/EDU 311 (spring) for elementary - requires student take Virginia Reading Assessment-Reading for Virginia Educators (RVE) upon completion of this class and passed prior to enrolling in any additional EDU classes.
- EDU 312 (spring) for all-level and secondary candidates

**Senior:**

- EDU 352/EDU 353 (fall) for elementary – requires students take Praxis II (elementary)
- EDU 355/EDU 357 (fall) for secondary – requires students take Praxis II (content area)
- EDU 358/EDU 360 (fall) for all-level – requires students take Praxis II (content area, as required)

Upon completion of Senior classes, students must complete a formal application to register for EDU 404. Requirements for admission into EDU 404. 2.8 GPA in major; 3.0 GPA in Teacher Education Minor; 2.5 GPA overall; and passed all testing requirements.
Continuation in Program:

Program candidates MUST maintain a "C" or better in each of the Foundations courses specific to the Teacher Education Minor.

A student's continuation in the sequence of Teacher Education courses as member of the Teacher Education Program is contingent upon: (1) formal acceptance into the Teacher Education Program by application only; (2) the maintenance of an overall grade point average (GPA) of 2.5, a GPA of 2.8 in major discipline and a GPA of 3.0 in the Teacher Education minor classes; (3) taking and passing required program and state testing. Students must also demonstrate appropriate progress in their professional development as evidenced in their Performance Presentations at the end of each EDU class above and including EDU 203. In addition, program candidates must have appropriate evaluations in each of their field-based internships.

The Teacher Education Faculty reviews and evaluates each program candidate's progress at the end of each semester to determine continued eligibility based on the established criteria above, as well as any other reports submitted concerning ethical behaviors. A letter of compliance is sent to each student concerning their eligibility. Students who are not in compliance will be blocked from taking additional classes and removed from the Teacher Education Program.

Students who are not in compliance with ALL program components will NOT be allowed to student teach. Students may petition the Teacher Education Committee to appeal this decision, if and only if, the appeal does not include a request to overturn program requirements, such as testing and GPA issues. The appeal process includes: (1) a written request delivered within one week following the receipt of the letter regarding the decision related to registration for student teaching. It should state the reason(s) an exception should be made; (2) in person explanation to the Teacher Education Committee scheduled within three weeks after the receipt of the written petition of appeal; (3) a decision will be given in writing to the petitioner within one week following the in-person appeal.

Program candidates interested in Elementary Education (Pk-6):

- Major in Liberal Arts, minor in Teacher Education
- Successfully complete (C or better) in ENG 101 & ENG 102, MTH 105, BIO 105, PSY 201, PSY 211 & PSY 291, EDU 320 to satisfy the required Liberal Arts Requirements for the Liberal Arts Major

Program candidates interested in Secondary Education (6-12):

- Students must choose a content area as a MAJOR and minor in Teacher Education.
- Cumulative grade point average (GPA) MINIMUM – 2.5
- Students must successfully complete the following courses with a "C" or higher:
  - ENG 101 & ENG 102
  - MTH 105 (or higher by formal request to the Director of Teacher Education)
  - PSY 201 and PSY 211
  and the chosen lab science(s)

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<tr>
<th>Major</th>
<th>Endorsement for Licensure</th>
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<tr>
<td>Agricultural Sciences</td>
<td>Agriculture Education</td>
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<td>Art – Studio Arts</td>
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<td>Pre-Professional Science</td>
<td>Biology &amp; Chemistry*</td>
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<td>Mathematics</td>
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<td>Social Studies (History, Government, Economics, Psychology)</td>
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<td>Spanish</td>
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*Pre-Professional Science requires a dual endorsement licensure in Biology and Chemistry with the requirements listed below*

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<tr>
<td>Biology</td>
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<td>BIO 111, BIO 201, BIO 202, BIO 305, BIO 330</td>
<td>CHM 103, CHM 104</td>
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<td>BIO 254 or BIO 303 or ESC 203</td>
<td>CHM 301, CHM 302, CHM 341</td>
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<td>CHM 315 or CHM 412</td>
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<td>CHM 342 or CHM 305</td>
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Program candidates interested in Art, Theatre Arts, Physical Education/Health, or Spanish are considered ALL-LEVEL (PK-12). ALL-LEVEL Candidates must:

- successfully complete the following courses with a "C" or higher:
  - ENG 101 & ENG 102
  - MTH 105 (or higher by formal request to the Director of Teacher Education)
  - PSY 201, PSY 211 and PSY 291
  - and the chosen lab science(s)
- Successfully complete field placements for both elementary and secondary levels
- Successfully complete student teaching at both elementary and secondary levels

**Program Completion for Licensure**
Students completing all components of the Teacher Education Program become eligible for licensure in the Commonwealth of Virginia, as well as states with reciprocity agreements.

In order to apply for licensure, students must:

Complete the application for licensure available online at http://www.doe.virginia.gov/teaching/licensure/.

- Follow the clear instructions listed in Steps 1-8 on the "Procedures for Applying for an initial Virginia License for Teachers” and submit the entire application and all required documentation to the Ferrum College Registrar. There is a fee for licensure.**
- Provide official evidence to the Registrar demonstrating completion of the Child Abuse Recognition and Intervention training
- Provide official evidence to the Registrar demonstrating official passing scores on any required assessment such as: Praxis II, VCLA and RVE
- Earn a grade of "B" or higher in EDU 404 Student Teaching and Synthesis Experience.
- Provide the Registrar with written permission for release of the College transcript to be sent to the Virginia Department of Education. There is a fee for an official transcript.

**This non-refundable application fee made payable to the Treasurer of Virginia must accompany the application packet. The Registrar will submit the entire application packet to the Virginia Department of Education.

Theatre Arts Minor

(Students majoring in Theatre cannot minor in Theatre.)

The Theatre minor is concentrated in the study of acting, directing, theatre history and literature. Students work out a coherent program of courses with the theatre faculty. All minors require a minimum of 18 credits, 9 of which are at the 300-400 level.

Required Courses

- THA 111 - Fundamentals of Acting I 3 Credit(s).
- THA 246 - Play Production I: Beginning Directing 3 Credit(s).
  OR
- THA 202 - Stage Craft 3 Credit(s).
- THA 301 - World Theatre I: through the Eighteenth Century 3 Credit(s).
  OR
- THA 302 - World Theatre II: from 1800 to the Present 3 Credit(s).

Choose 12 Credit Hours from Following Electives

- THA 112 - Fundamentals of Acting II 3 Credit(s).
- THA 222 - Voice and Diction 3 Credit(s).
- THA 300 - Auditions and Makeup Workshop 3 Credit(s).
- THA 320 - Advanced Acting and Performance Theory 4 Credit(s).
- THA 336 - Creative Dramatics in School Church and Community 3 Credit(s).
- THA 346 - Readers Theatre 3 Credit(s).
Total Credit Hours Required (at Least 9 at the 300-400 Level): 18

COURSES

Course Descriptions

In special cases, students may seek a waiver of stated course prerequisites by obtaining written approval of their academic advisor, the course instructor, and the appropriate school dean.

Accounting

ACC 110 - Introduction to Accounting

Credit Hour(s): 3
Introduction to budgeting, managerial accounting, financial accounting, tax accounting, and government/nonprofit accounting. 3 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: ODD

ACC 201 - Principles of Accounting I

Credit Hour(s): 3
Basic theory, concepts and methodology of accounting. Valuation and income determination, internal control systems and basic financial statement preparation. 3 Credit(s).
Prerequisite(s): MTH 100 or equivalent.
Course Session Cycle: FA

ACC 202 - Principles of Accounting II

Credit Hour(s): 3
Basic elements of the accounting process for planning, budgeting and control and their application to various forms of business. Also included are financial analysis and concepts of cost, including the effects of cost on revenues, profits, asset values, and capital budgeting decisions. 3 Credit(s).
Prerequisite(s): ACC 201 with a grade of "C" or higher.
Course Session Cycle: SP

ACC 290, 390, or 490 - Accounting Practicum

Credit Hour(s): 1
These courses provide students with credit for participating in professional service opportunities. These opportunities will be limited to those that provide professional level services under the direct guidance of a faculty member. Projects may include audit services, tax services, managerial accounting services, accounting systems development or support services, or financial accounting services. All services will be provided free of charge as a service to the community. Each course will include a minimum of 8 hours of classroom instruction, 12 hours of field experience, and a summary
ACC 301 - Managerial Accounting

Credit Hour(s): 3
Concepts of cost and managerial accounting. Emphasis on preparation, interpretation, and analysis of accounting and financial data for planning and control, including performance evaluation. 3 Credit(s).
Prerequisite(s): ACC 202.
Course Session Cycle: FA

ACC 302 - Intermediate Accounting I

Credit Hour(s): 3
Analysis of the theory, concepts, principles, and procedures underlying the preparation of financial statements for external reporting. 3 Credit(s).
Prerequisite(s): ACC 202 with a grade of "C" or higher.
Course Session Cycle: FA

ACC 303 - Intermediate Accounting II

Credit Hour(s): 3
Analysis of the theory, concepts, principles, and procedures underlying the preparation of financial statements for external reporting. 3 Credit(s).
Prerequisite(s): ACC 202 with a grade of "C" or higher.
Course Session Cycle: SP

ACC 304 - Advanced Accounting Theory

Credit Hour(s): 3
A study of selected advanced topics in financial accounting, including consolidation of subsidiaries into parent company financial statements, accounting for transactions denominated in foreign currencies, the translation of foreign currency financial statements into US dollars, reporting requirements of the US Securities and Exchange Commission, and accounting for liquidations and reorganizations. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. ACC 302.
Course Session Cycle: FA
Course Yearly Cycle: ODD

ACC 306 - Government and Nonprofit Accounting

Credit Hour(s): 3
An analysis of the environment and activities of federal, state, and local governments and non-profit organizations and an in-depth study of the financial accounting concepts and standards that apply to these entities. 3 Credit(s).
Prerequisite(s): ACC 202.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ACC 380 or 480 - Topics in Accounting
Credit Hour(s): Variable hours
A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule. Variable hours Credit(s).
Prerequisite(s): Depends on Specific Offering.

ACC 401 - Advanced Studies in Cost Accounting
Credit Hour(s): 3
Advanced concepts of cost and managerial accounting. Emphasis on preparation, interpretation, and analysis of financial data prepared for internal users. Items taught include variance analysis, segment reporting, capital budgeting decisions, product pricing and financial statement analysis. 3 Credit(s).
Prerequisite(s): ACC 301.

ACC 403 - Auditing
Credit Hour(s): 3
Auditing procedures through the application of auditing principles; standards and audit reports. 3 Credit(s).
Prerequisite(s): ACC 202.

ACC 405 - Taxation
Credit Hour(s): 3
Practical understanding of the Federal Income Tax Law as it pertains to individuals, partnerships, and corporations. Management of tax liability, tax planning, and tax research. 3 Credit(s).
Prerequisite(s): ACC 202.

ACC 407 - International Accounting
Credit Hour(s): 3
An analysis of the impacts of the economic, educational, legal, political, and cultural characteristics of various countries on the development of their accounting systems and principles; of the accounting impacts of international business on U.S.-based businesses; and of the development of international accounting standards. 3 Credit(s).
Prerequisite(s): ACC 202.

ACC 408 - Accounting Software Applications
Credit Hour(s): 3
An in-depth study of microcomputer accounting software that provides the student with the opportunity to integrate theory and practical applications. The course consists of three primary sections: 1) general ledger accounting and accompanying modules; 2) tax software for corporate and personal income taxes; 3) auditing software for the independent audit of business entities. 3 Credit(s).
Prerequisite(s): BUS 230, ACC 202.

ACC 409 - Equity and Bond Analysis
Credit Hour(s): 3
Application of data-intensive research methods in analysis of equity and bond investments. This course integrates computer-applications skills, ability to interpret accounting statements, and investment analysis. 3 Credit(s).
Prerequisite(s): BUS 313, ACC 202. (ACC 302, ACC 303 and ANA 272 highly recommended).

ACC 498 - Senior Seminar in Accounting

Credit Hour(s): 3
Capstone course for accounting majors analyzing current accounting issues in preparation for professional careers in accounting. Emphasis is on synthesizing the skills and knowledge gained in previous accounting, business, economics, and other courses to obtain new perspectives on contemporary topics. This course is taken during the student's final spring semester. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ACC 301, ACC 302, ACC 303 and one from: ACC 304, ACC 306 or ACC 403. Senior Standing or 3.0 minimum grade point average.
Course Session Cycle: SP

ACC 499 - Accounting Internship

Credit Hour(s): 3
This course will allow accounting students to obtain off-campus work experience in an accounting position. Internships are normally spent in a 400-hour situation or voluntary service activity. They are carefully supervised and designed to provide practical experience in professional accounting environments. This course has an additional fee. 3 Credit(s).
400 Service Hour(s).
Prerequisite(s): Junior or Senior standing, completion of ACC 303, and a 2.25 minimum grade point average.

Agricultural Sciences

AGS 110 - Agriculture Issues

Credit Hour(s): 3
Introduces the discipline of agriculture by exploring problems, issues, and philosophies of its practice through history and around the world. 3 Credit(s).
Course Session Cycle: FA

AGS 180, 181 to 480, 481 - Practicum

Credit Hour(s): 1
Allows the student to gain firsthand experience and knowledge of procedures and practices common to the field by providing service to program, college, business, and/or the community. Pass/Fail. 1 Credit(s). 45 Service Hour(s).
Prerequisite(s): AGS 110.
Course Session Cycle: FA

AGS 190, 290, 390 or 490 - Special Topics

Credit Hour(s): 1-4
Specifically designed for agriculture majors to be able to design an independent study class in a specialized field that is not normally in the schedule. 1-4 Credit(s).
AGS 195, 196 to 495, 496 - Independent Research

Credit Hour(s): 1-3
Under faculty supervision, students will design and carry out a vigorous scientific study of a specific problem in agriculture. Written and oral presentations of the research are required. 1-3 Credit(s).
Prerequisite(s): Coursework and skills determined by individual instructors.
Course Session Cycle: FA

AGS 218 - Regional Experiences in Agriculture

Credit Hour(s): 4
This course is an intensive study of crop and animal production in this region. The course requires several field trips to nearby farms including a trip to the Eastern Shore of Virginia. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: ET
Course Yearly Cycle: EVEN

AGS 228 - Introduction to Equine Assisted Activities & Therapies (EAAT)

Credit Hour(s): 4
This course is designed to offer the student a focused experience in the Equine Industry and to allow the student to experience the range of diversity in occupation that the Equine Industry offers. While the course focuses on the EAAT, the broader discussion of career prospects in the Equine Industry will welcome students studying in many departments and majors. Students will earn up to 181 contact hours that can be applied toward certifications for EAGALA, EAL, QMHP, CHA, and USHJA Instructor. Riding will be a small part of this course, however any level rider is welcome. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: SP
Course Yearly Cycle: ODD

AGS 314 - Animal and Plant Breeding and Genetics

Credit Hour(s): 4
Investigates applied animal and crop breeding and genetics, the anatomy and physiology of reproduction, and the factors affecting reproductive efficiency. Also includes a section on artificial insemination, embryo transfer, cloning, and newer technologies. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): ASI 201 and BIO 202.
Course Session Cycle: FA
Course Yearly Cycle: ODD

AGS 417 - Farm Business Management

Credit Hour(s): 3
Consideration is given to the institutions which are related to the resources employed in agriculture with particular attention to the implication related to the various methods of acquiring them. The primary emphasis of the course will be the organization and use of the farm for maximum profit. This course includes the preparation of a farm business plan. 3 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: EVEN
Analytics

ANA 271 - Business Statistics with Statistical Software

Credit Hour(s): 3
This course provides the foundational knowledge-base needed to understand and apply research methods to both discipline-based and consumer studies. It includes reviewing college mathematics, an introduction to research methods as relates to "real world situations," interpreting formal and media-based studies by drawing inferences, and projects applying these research methods. SAS, SPSS and Excel (software programs) will be used for data analysis. 3 Credit(s).
Prerequisite(s): Sophomore year, first semester.

ANA 272 - SAS Programming 1: Essentials

Credit Hour(s): 3
This course provides students with the introduction to SAS programming with the SAS University Edition software. SAS programmers are in high demand with organizations worldwide—profit and nonprofit. It prepares the student to take the next level of SAS programming. Problem-solving and critical thinking abilities are emphasized and demonstrated by applying SAS concepts and programming code in the completing a comprehensive project. In addition to SAS files and tables, students will work with spreadsheets, text and csv files, and database files. This is one of the four courses included in the joint SAS certification between SAS and Ferrum College. 3 Credit(s).
Course Session Cycle: FA

ANA 273 - SAS Programming 2: Data Manipulation Techniques

Credit Hour(s): 3
This course provides students with more advanced SAS programming skills with an emphasis on manipulating data. SAS programmers are in high demand worldwide and the SAS software is industry neutral and can meet the needs of many disciplines. Problem-solving and critical thinking abilities will continue to be developed by working with more complex organizational issues than in the SAS programming 1 course. This is one of the four courses included in the joint SAS certification between SAS and Ferrum College. 3 Credit(s).
Prerequisite(s): ANA 271 and ANA 272.
Course Session Cycle: SP

ANA 473 - Health Analytics and Informatics

Credit Hour(s): 3
This course examines a variety of techniques to identify, measure, and improve quality and productivity in health service organizations. Several practical issues related to quality management will be considered, including teamwork, leadership, management, decision making and the role of information technology in the support of quality initiatives. Topics include historic and contemporary view of quality (including 6 Sigma, lean, and value-based purchasing), statistical quality improvement tools and methods, and process flow and design. The intent is to provide students with insights into how quality and utilization programs are administered in fact as well as theory. 3 Credit(s).
Prerequisite(s): ANA 271, ANA 272 and ANA 273.
Course Session Cycle: FA

ANA 498 - Capstone Analytics Research

Credit Hour(s): 3
This course provides students with advanced data modeling techniques and skills using SAS software. SAS programmers are in high demand worldwide and the SAS software is industry neutral and can meet the needs of many disciplines. Problem-solving and critical thinking abilities will continue to be developed by working with more
complex organizational issues than in the previous SAS programming classes. This is one of the four courses included in the joint SAS certification between SAS and Ferrum College. 3 Credit(s).

**Prerequisite(s):** ANA 271, ANA 272, ANA 273 and ANA 473.

**Course Session Cycle:** FA

### Animal Science

**ASI 120 - Basic Domestic Animal Handling**

**Credit Hour(s):** 2

Provides study of concepts in applied animal behavior to properly and safely handle animals with basic focus on restraint and containment with the most current humane and ethical practices. The course will also focus in zoonosis and risk assessment with the parameters of domestic animal handling while providing an experiential component to practice at the 100 level.

*This course has an additional fee. 2 Credit(s). Lab course with 3-hour lecture and 2-hour lab for ½ of the semester Contact Hour(s).*

Meets 2 credit hours of lab science requirement.

**Course Session Cycle:** Spring

**Course Yearly Cycle:** Even

**ASI 150, 151, 152 or 153 - Fitting and Showing**

**Credit Hour(s):** 1

Allows students hands-on experience with livestock by training in practices associated with livestock fitting and showing, the art of animal display. 1 Credit(s). 2 Contact Hour(s).

**Course Session Cycle:** SP

**ASI 180, 181 to 480, 481 - Practicum**

**Credit Hour(s):** 1

Allows the student to gain firsthand experience and knowledge of procedures and practices common to the field by providing service to program, college, business, and/or the community. Pass/Fail. 1 Credit(s). 45 Service Hour(s).

**Prerequisite(s):** AGS 110.

**Course Session Cycle:** FA

**ASI 190, 290, 390 or 490 - Special Topics**

**Credit Hour(s):** 1-4

Specifically designed for agriculture majors to be able to design an independent study class in a specialized field that is not normally in the schedule. 1-4 Credit(s).

**ASI 201 - Introduction to Animal Science**

**Credit Hour(s):** 4

A study of animal agriculture, including its scope, products derived from animals, the anatomy and physiology of farm and companion animals, animal nutrition, breeding and genetics, animal behavior, animal health, and management of farm and companion animals. *This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).*

Meets 4 credits toward Natural Science Requirement.

**Course Session Cycle:** FA
ASI 205 - Horse Science

Credit Hour(s): 3
Provides study of scientific aspects of equine breeding, reproduction, nutrition, conditioning, performance and selection. Also includes one section on the laws concerning horses. 3 Credit(s).
Prerequisite(s): BIO 105 or BIO 110 or BIO 111.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ASI 232 - Livestock Evaluation and Judging

Credit Hour(s): 3
Covers comparative judging and statistical trait evaluation of livestock conformation and performance, using various formats, from live judging to spreadsheet records, to broaden student experience. 3 Credit(s). 5 Contact Hour(s).
Course Session Cycle: SP
Course Yearly Cycle: ODD

ASI 302 - Animal Nutrition

Credit Hour(s): 4
This course will focus on introducing and practicing knowledge and skills in relation to animal nutrition. Students will be asked to apply the nutritional concepts they learn to a variety of potential situations they might encounter post-graduation. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 110 OR BIO 111 and any 200 (or higher) level science course.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ASI 316 - Domestic Animal Anatomy and Physiology

Credit Hour(s): 4
This course will focus on developing and practicing knowledge and skills in relation to domestic animal anatomy and physiology. Students will be asked to apply the concepts they learn to a variety of potential situations they might encounter post-graduation. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 110 OR BIO 111, and any 200 (or higher) level science course.
Course Session Cycle: SP
Course Yearly Cycle: ODD

ASI 325 - Stable Management

Credit Hour(s): 3
This course familiarizes students with the basic principles of horse care and management, including basic nutrition, health care, and correct handling and management practices. 3 Credit(s).
Prerequisite(s): BIO 105, BIO 110 OR BIO 111.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ASI 414 - Domestic Animal Reproduction

Credit Hour(s): 4
This course will focus on practicing and mastering knowledge and skills in relation to domestic animal reproduction. Topics covered will include physiological processes of reproduction in domestic animals, gonadal functions, endocrine
relationships, fertility and factors affecting reproductive efficiency. *This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).*

**Prerequisite(s):** BIO 110 OR BIO 111 and any 200 (or higher) level science course.

**Course Session Cycle:** SP
**Course Yearly Cycle:** EVEN

**ASI 495, 496 - Independent Research**

**Credit Hour(s):** 1-3
Under faculty supervision, students will design and carry out a vigorous scientific study of a specific problem in agriculture. Written and oral presentations of the research are required. *1-3 Credit(s).*

**Prerequisite(s):** ASI 201 and BIO 202.

**Course Session Cycle:** FA

**Art**

**ART 100 - Introducing Art and Artists**

**Credit Hour(s):** 3
This is primarily a lecture course introducing both historical and contemporary artistic styles, concepts and artists. The language of art, art media, and methods are introduced with an emphasis is on understanding, appreciating and discussing art in its cultural and historical context. Students view projected examples, view movies and discuss imagery and artistic techniques in a lecture/discussion format. This will fulfill a fine art requirement and can be used as an elective for Art majors. *3 Credit(s).*

Meets Fine Arts Requirement.

**Course Session Cycle:** FASP

**ART 101 - Two-Dimensional Design**

**Credit Hour(s):** 3
Two-Dimensional Design is an introduction to the basic language of art and design on a flat plane. Problems/projects are organizational, conceptual and thought provoking to challenge and introduce the basic elements and principles of art. It is the intent of this studio experience to establish a disciplined, efficient and practical use of art tools and materials. *This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).*

Meets Fine Arts Requirement.

**Course Session Cycle:** FASP

**ART 102 - Three-Dimensional Design**

**Credit Hour(s):** 3
Three-Dimensional Design is a fundamental introduction to the basic design techniques, methods, and concepts of sculptural work. In this course students will explore formal, functional and conceptual issues that govern three-dimensional work by creating a variety of artworks as assigned. It is the intent of this studio experience to establish a disciplined, efficient, practical and safe use of art tools and materials. *This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).*

Meets Fine Arts Requirement.

**Course Session Cycle:** FASP

**ART 104 - Drawing Fundamentals**
Credit Hour(s): 3
The Drawing Fundamentals course develops a foundation of understanding of drawing concepts and approaches including shape and form, measure and proportion and form defined by light. Students learn by gaining experience with the physical act of drawing in an attempt to resolve problems of representation and description in fundamental ways. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Course Session Cycle: FASP

**ART 130 - The Color Course**

Credit Hour(s): 3
The Color Course is a foundation course emphasizing the hue, value, and saturation of color and the application of that knowledge to the visual arts. This course emphasizes deliberate and clear presentation for maximum effect. This course is open to all curious students and does not rely upon representational drawing skills. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.

**ART 204 - Intermediate Drawing**

Credit Hour(s): 3
This course emphasizes and refines the relationship between design and drawing while expanding the possibilities of representational drawing. Emphasis is placed upon individual interpretation of class assignments and developing drawings that exhibits versatility and proficiency in drawing. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 104.

**ART 206 - Introduction to Ceramics**

Credit Hour(s): 3
Ceramics is a studio course introducing the fundamentals of clay as an expressive material. It is a beginning studio addressing hand-building techniques including pinch, coil and slab and introduces traditional wheel throwing to expand sensitivity to ceramics material, history, and techniques. This studio experience also introduces glazing and kiln firing applicable to contemporary and sculptural concepts. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Course Session Cycle: FASP

**ART 215 - Photoshop**

Credit Hour(s): 3
This is an introduction to Adobe Photoshop, which is the cross-industry standard software for editing raster-based images. They will work from a variety of sources including stock images, scans, personal images and their own unique in system compositions. Students will be introduced to the techniques of creating, editing and processing images in the Photoshop environment and organizational skills within Adobe Bridge. Connections to analogue studio techniques will be introduced, including visits to the chemical process photography lab. This is not a photography course and students are not required to purchase a camera. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.

**ART 217 - Introduction to Photography**
Credit Hour(s): 3
A studio course designed as an introduction to both digital and chemical process photography. Attention to technical aspects including exposure settings, cameras types, storage media, as well as digital and analogue darkroom techniques. Special emphasis is placed on photography as an art form. Students must provide a 35 mm camera, with a manually adjustable shutter and aperture, all other materials and digital tools will be provided. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.

ART 220 - Introduction to Museum Studies

Credit Hour(s): 3
An introductory survey of the museum profession, its standards and techniques, combined with hands-on experiences in various phases of museum operations. (Cross-listed with HIS-220.) 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: ET

ART 222 - Basic Computer Graphics

Credit Hour(s): 3
This is an introduction to the computer as an art-making tool. Included are introductions to computer illustration, graphic design, commercial art, image manipulation and related topics. The course emphasizes creativity, composition, and aesthetic quality. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.

ART 228 - Introduction to Sculpture

Credit Hour(s): 3
This course provides visual and technical skills necessary to pursue and appreciate sculpture as a fine art. Students will be introduced to a variety of historical and contemporary sculptors and traditions as well as issues and theories about sculpture. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 102.

ART 230 - The Painting Studio

Credit Hour(s): 3
Introducing traditional painting practice through color exercise and still life. The goal of the course is to allow students to develop their aesthetic and technical skills with projects that challenge their level of ability. There will be specific attention given toward painting materials and the application of techniques to create form in deliberate and creative compositions. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 101, ART 104 or ART 130.

ART 232 - Web Design X

Credit Hour(s): 3
Students engage in a studio experience focused on planning and producing visually driven Internet content or websites. Emphasis is placed on the creative use of Internet, Intranet, and World Wide Web systems. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 222.
ART 304 - Advanced Drawing

Credit Hour(s): 3
Emphasis will be placed upon individual interpretation of class assignments with studio practice at a more advanced level. Students are challenged to expand their personal abilities and learn more advanced drawing techniques as standards and expectations are at a higher level than ART 204. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 204.

ART 306 - Intermediate Ceramics

Credit Hour(s): 3
This studio course is an in-depth introduction of three-dimensional form and sculptural concepts, using ceramic materials. Students develop a more advanced commitment to clay and contemporary practitioners and artists while reflecting upon the history and techniques of the medium. Students expand their sensitivity to ceramics material, history, and glazing techniques. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 206.

ART 317 - Intermediate Photography

Credit Hour(s): 3
Designed for photographers who wish to expand their knowledge of printing. Students develop conceptual approaches to image-making, cultivate an understanding of the relationship of photography to culture and learn to speak critically of their own and others work. Students participate in critical and theoretical reading, study of significant historic and contemporary photographers, lectures and discussions in a seminar setting. Students must provide a 35 mm camera, with a manually adjustable shutter and aperture, all other materials and digital tools will be provided. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 217.

ART 320 - Ancient Through Medieval Art in History

Credit Hour(s): 3
This is an art history survey of western art including periods of Prehistoric/ancient time, Classical Greek and Roman through Gothic Art. This course will place specific emphasis on the major developments in artistic creation while acknowledging the political, social, and cultural trends that influenced the art of those times. 3 Credit(s).
Meets Fine Arts Requirement.

ART 321 - Renaissance to Impressionist Art in History

Credit Hour(s): 3
Students study art history from the pre-Renaissance through the late nineteenth century with particular emphasis on the major artists representing artistic movements and styles influenced by the political, social, and cultural trends of each era. 3 Credit(s).
Meets Fine Arts Requirement.

ART 322 - Graphic Print Media
Credit Hour(s): 3
A studio course involving the study and practice of conceptual and technical approaches to graphic design for print reproduction. Emphasis is placed on the use of type, spot color, line art, and continuous tone images in the preparation of digital designs, layouts, and comprehensive mechanicals. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 222.

ART 324 - Art for Educators

Credit Hour(s): 3
A course for any student interested in children's art. Students explore and experiment with various art materials and techniques that are appropriate for different age levels. Students study the developmental stages of children and their aesthetic awareness and artistic growth. The elements and principles of art are introduced. Students become acquainted with studio management including a practical knowledge of supplies and equipment. This course is especially recommended for students majoring in Art, Psychology, Recreation Leadership, Physical Education, Liberal Arts, or minoring in Teacher Education. This course has an additional fee. 3 Credit(s).
Meets Fine Arts Requirement.

ART 325 - Modern Art and the Twentieth Century

Credit Hour(s): 3
This course is a survey of the major art movements of modernist and avant-garde painting and sculpture from the mid-nineteenth through the twentieth century. There will be particular emphasis on the major artists representing artistic movements and styles influenced by the political, social, and cultural trends of each decade. 3 Credit(s).
Meets Fine Arts Requirement.

ART 328 - Intermediate Sculpture

Credit Hour(s): 3
Students produce more advanced sculptural work with an emphasis on creative expression, critical analysis and discourse. This includes an introduction to public and community-based art encouraging and developing individual directions through a variety of sculptural media. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 228.

ART 330 - Intermediate Painting

Credit Hour(s): 3
This course is to allow students to develop their conceptual foundation of content and meaning in their art while being challenged to develop their aesthetic and technical skills with projects at their level of ability. Emphasis is placed upon individual interpretation of class painting assignments at the intermediate level. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 230.

ART 332 - Graphic Design: Typography & Logo Systems

Credit Hour(s): 3
This course offers intensive explorations of digital tools, typography, editorial structure, design, ideograms and image-making necessary for professional creative work. More advanced usage of software applications including Adobe
Photoshop, Illustrator and InDesign are the tools of this course. *This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).*
Meet Fine Arts Requirement.

**Prerequisite(s):** ART 222.

**ART 398 - Artist Practices**

**Credit Hour(s):** 3  
Provides students with comprehensive career skills in the arts. Topics include: framing and displaying artwork, general gallery skills, portfolio development, maintenance and online presence, safe practices, efficient packaging and shipping of artwork, gallery representation and application, producing the annual student art show and assisting with the senior shows. Students meet along with the Art 498 Course and participate in show development, critiques and other activities. *This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).*
Meet Fine Arts Requirement.

**ART 406 - Advanced Ceramics**

**Credit Hour(s):** 3  
Studio practice in forming, firing and glazing sculptural ceramics and pottery. Individual instruction is emphasized and individual interpretations are encouraged. *This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).*
Meet Fine Arts Requirement.

**Prerequisite(s):** ART 306.

**ART 411 - Figure and Anatomy**

**Credit Hour(s):** 3  
This drawing course introduces a foundation of understanding of the human figure and distinct anatomical details. This will include drawing from casts of the head and the skeleton as well as live models. Topics include the basic proportions of the body, comparison to other animal structures, techniques of description and rendering textures. *This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).*
Meet Fine Arts Requirement.

**Prerequisite(s):** Prior completion of two 200 level or higher ART Courses.

**ART 417 - Advanced Photography**

**Credit Hour(s):** 3  
Designed for photographers who wish to hone their skills in a specific digital or analogue discipline path. They will expand their knowledge of conceptual principals in photography and correlate this with their media choice. Students further develop their conceptual language in image-making, by participating in presentations, shows and competitions in the community. Students will participate in discussions regarding their conceptual ideas and their chosen media. Those following the analogue path must provide a 35 mm camera with a manually adjustable shutter and aperture. It is advised that those following a digital path should invest in their own DSLR camera before taking this course. *This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).*
Meet Fine Arts Requirement.

**Prerequisite(s):** ART 317.

**ART 428 - Advanced Sculpture**

**Credit Hour(s):** 3  
Advanced sculptural work is expected with an emphasis on personal creative expression, critical analysis and discourse. Particular emphasis is placed upon developing an individual direction through a variety of sculptural media.
This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 328.

ART 430 - Advanced Painting

Credit Hour(s): 3
The goal of the course is to challenge students to develop their paintings at an advanced level. Greater expectations and self-discipline are requirements as students develop their aesthetic, technical and conceptual ability. Emphasis is placed upon individual interpretations of painting concepts at the advanced level. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): ART 430.

ART 450 - Directed Study in Advanced Studio Problems

Credit Hour(s): 3
A course to provide students with the opportunity to explore individually assigned research concentrating on personal development in a selected studio area. This course is repeatable if topics are different. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Meets Fine Arts Requirement.
Prerequisite(s): Completion of appropriate lower-level courses and permission of the instructor.

ART 497 - Senior Studio

Credit Hour(s): 3
All senior art majors are required to present an exhibition of their work during their senior year. The Senior Studio challenges the art major to demonstrate their personal creative development and professional artistic competence in the production of a body of work developed in coursework over their college experience. The experience includes developing an individualized theme, with personal commitment, as well as a researched written thesis. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Prerequisite(s): ART 497.

ART 498 - The Senior Exhibition

Credit Hour(s): 3
All senior art majors will be required to produce a body of artworks representing advanced studio practice with commitment toward creative growth and development. Up to one third of the work presented may represent studio accomplishments during the sophomore and junior years of study. The remainder of work is in the Senior Studio over the course of the senior year. Students may submit as many works as they desire; however, the jury of art faculty are the final arbiters of the range and content of the exhibition. Senior art students are required to promote and publicize their own exhibit, be involved in the design of a show-card, and present their art professionally for exhibition. This course has an additional fee. 3 Credit(s). 6 Contact Hour(s).
Prerequisite(s): ART 497.

ART 499 - Internship

Credit Hour(s): 3
The internship in art offers opportunities for practical experiences in an off-campus art-related work situation or service activity. Students are carefully supervised in internships designed to provide preprofessional experience in areas related to academic coursework and career choice of the individual intern. To qualify for internships, students must meet
specific departmental guidelines and requirements outlined in the Internship Handbook. *This course has an additional fee. 3 Credit(s). 240 Service Hour(s).*

**Biology**

**BIO 105 - Concepts in Biology**

**Credit Hour(s): 4**
Survey of topics in biology with a focus on biological literacy and the scientific method. This course is designed for non-science majors and will not count as a prerequisite for upper level Biology courses. *This course has an additional fee. 4 Credit(s). 5 Contact Hour(s).*
Meets 4 credits toward Natural Science Requirement.
*Course Session Cycle:* FASP

**BIO 109 - Introductory Biology I for Health Sciences**

**Credit Hour(s): 4**
Introductory Biology for Health Sciences will introduce students to the diversity of living organisms, human biology, human nutrition and medical terminology.

*This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).*

This course meets a liberal arts lab science requirement.
*Course Session Cycle:* Fall

**BIO 110 - Introductory Biology I**

**Credit Hour(s): 4**
A survey of the diversity of living organisms, human biology, and ecology. *This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).*
Meets 4 credits toward Natural Science Requirement.
*Course Session Cycle:* FASP

**BIO 111 - Introductory Biology II**

**Credit Hour(s): 4**
Emphasis in this course will be on the fundamental principles of biology, cell structure, and functions, cell energetics, genetics, and evolution. *This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).*
Meets 4 credits toward Natural Science Requirement.
*Course Session Cycle:* FASP

**BIO 123 - Entomology: Insects and Society**

**Credit Hour(s): 4**
This course is a focused study of the biology, ecology, and diversity of insects. *4 Credit(s). 6 Contact Hour(s).*
Meets 4 credits toward Natural Science Requirement.

**BIO 180, 181 to 480, 481 - Practicum**
Credit Hour(s): 1
Allows the student to gain firsthand experience and knowledge of procedures and practices common to the field by providing service to program, college, business, and/or the community. Pass/Fail. 1 Credit(s). 45 Service Hour(s).
Course Session Cycle: FA

**BIO 190, 290, 390 or 490 - Special Topics**

Credit Hour(s): 1-4
A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule. 1-4 Credit(s).
Prerequisite(s): Depends on specific offering.

**BIO 195, 196 to 495, 496 - Independent Research**

Credit Hour(s): 1-3
Under faculty supervision, students will design and carry out a rigorous scientific study of a specific problem in biology. Written and oral presentation of the research are required. 1-3 Credit(s).
Prerequisite(s): Coursework and skills determined by individual instructors.
Course Session Cycle: FA

**BIO 201 - Vertebrate Zoology**

Credit Hour(s): 4
An introductory survey of the evolutionary relationships, anatomy, physiology, histology, and development of vertebrate animals. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): BIO 110 OR BIO 111. This course has an additional fee.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

**BIO 202 - Introduction to Plant Science**

Credit Hour(s): 4
An introduction to the biology of vascular plants including classification, structure, physiology, reproduction, and ecology. A collection is required in the laboratory portion of the course. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): BIO 110 OR BIO 111.
Course Session Cycle: FA

**BIO 203 - Microbiology for Health Sciences**

Credit Hour(s): 4
Microbiology for Health Sciences will introduce students to microbiology concepts as they apply to the health sciences field and to the interactions of microorganisms with humans including those associated with wellness and disease. Topics include basic morphology, genetics, physiology, mechanisms of disease transmission, control of microorganisms, the immune system and microbial pathogens.

This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
This course meets lab science requirement.

**Prerequisite(s):** BIO 111

**Course Session Cycle:** Fall

**BIO 230 - Introduction to Cell and Molecular Biology**

**Credit Hour(s):** 3

An introduction to cellular and molecular biology with a focus on cell division, DNA replication, transcription, and translation. *3 Credit(s).*

**Prerequisite(s):** BIO 111.

**Course Session Cycle:** FA

**BIO 240 - Human Genetics**

**Credit Hour(s):** 3

This course introduces students to the basic concepts of human genetics and genomics. Including consideration of familial inheritance and pedigree analysis, gene structure and organization, mutation and variation, genetic basis of normal development and of cancer. Consideration of social and ethical implications of topics like genetic testing, gene therapy and gene editing. *3 Credit(s).*

**Course Session Cycle:** Spring

**Course Yearly Cycle:** Odd

**BIO 254 - Human Anatomy and Physiology I**

**Credit Hour(s):** 4

The first half of a two course sequence that involves the study of structure and function of cells, tissues, organs, and systems of the human body. The course utilizes human cadavers for dissection purposes. *This course has an additional fee.* *4 Credit(s).* *6 Contact Hour(s).*

Meets 4 credits toward Natural Science Requirement.

**Prerequisite(s):** BIO 111.

**Course Session Cycle:** FA

**BIO 255 - Human Anatomy and Physiology II**

**Credit Hour(s):** 4

The second half of a two course sequence examining the structure and function of various systems of the human body not covered in BIO 254. The course utilizes human cadavers for dissection purposes. *This course has an additional fee.* *4 Credit(s).* *6 Contact Hour(s).*

Meets 4 credits toward Natural Science Requirement.

**Prerequisite(s):** BIO 254.

**Course Session Cycle:** SP

**BIO 301 - Invertebrate Zoology**

**Credit Hour(s):** 4

A systematic survey of the structure, function, and natural history of the phyla and classes of animals without backbones. Emphasis will be placed on evolutionary relationships which are the basis of our classification system. *This course has an additional fee.* *4 Credit(s).* *6 Contact Hour(s).*

**Prerequisite(s):** BIO 110 OR BIO 111.

**Course Session Cycle:** SP

**Course Yearly Cycle:** ODD
BIO 303 - Microbiology

Credit Hour(s): 4
A study of the anatomy, physiology, isolation, and identification of microorganisms concentrating primarily on the bacteria. The roles of various groups in nature, medicine, and industry are also studied. Immunology and a study of the human immune system are included. The laboratory portion stresses the practical aspects in an individual isolation and identification setting. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 111.
Course Session Cycle: FA

BIO 305 - Introductory Genetics

Credit Hour(s): 4
Mendelian genetics, chromosomal theory of inheritance, nature and action of genes in biochemistry and development, population and ecological genetics, and genetic effects in the human. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 230.
Course Session Cycle: SP

BIO 306 - Nonvascular Plants and Fungi

Credit Hour(s): 4
A systematic survey of the structure, function, and natural history of the divisions and classes of plants without a vascular system. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 110 OR BIO 111.
Course Session Cycle: FA
Course Yearly Cycle: ODD

BIO 311 - Field Botany

Credit Hour(s): 4
Deals with the study of plants in natural environments, including plant identification, collection, preservation, and basic ecological relationships. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 110 OR BIO 111.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

BIO 315 - Animal Behavior

Credit Hour(s): 3
Approaches the study of animal behavior in the psychological, physiological, and zoological lines of thought. Behavior is explained in terms of its evolutionary history, its benefits to the animal, and the psychological and physiological mechanisms involved. 3 Credit(s).
Prerequisite(s): BIO 110 OR BIO 111.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

BIO 320 - Human Nutrition

Credit Hour(s): 3
Emphasis on the biochemical and physiological functions and metabolism of nutrients in the study of normal nutrition.
Biochemical structure of nutrients, energy transformation, and nutrient metabolism of major organ systems are discussed. Adequacy of diets for the life cycle and preventive nutrition related health issues will be presented. 3 Credit(s).
Prerequisite(s): BIO 111.
Course Session Cycle: FA

BIO 330 - Cell Biology

Credit Hour(s): 4
An introduction to the fundamental unit of biological organization. Topics include cellular structure, membrane structure and function, cellular energetics, cell synthesis and growth and cellular genetics. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 230 and CHM 103 or CHM 105.

BIO 340 - Biotechnology and Bioinformatics

Credit Hour(s): 3
Examines the techniques of molecular biology and bioinformatics and their application to a variety of fields. Examples from forensic science, medicine, evolutionary biology and human genealogy will be included. Ethical and social controversies resulting from the use of these technologies will also be discussed. 3 Credit(s).
Prerequisite(s): Complete BIO 105, BIO 110, or BIO 111.

BIO 410 - Immunology

Credit Hour(s): 3
Examines the basic principles of immunology and the cells and tissues that make up the immune system. Topics will include development of the immune system, function and mode of action of immune cells, the role of immunoglobulin, and autoimmune disorders. 3 Credit(s).
Prerequisite(s): BIO 230 OR BIO 303.

BIO 413 - Animal Diseases

Credit Hour(s): 3
Focuses on etiology, symptoms, prevention, and treatment of diseases of common domestic animals, developing principles of safe, effective control and protection. 3 Credit(s).
Prerequisite(s): BIO 111 and Junior or Senior Standing.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

BIO 419 - Plant Physiology and Biotechnology

Credit Hour(s): 4
Studies the physical and metabolic activities of plants, emphasizing water movement, mineral nutrition, respiration, photosynthesis, and phytohormones and highlighting agricultural and environmental physiologies. Also covers aspects of plant biotechnology including techniques of transgenics and other methods. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 202 AND CHM 105 OR CHM 301.
Course Session Cycle: SP
Course Yearly Cycle: ODD

Business
BUS 151 - Introduction to U.S. and Global Business

Credit Hour(s): 3
This course explores contemporary issues in economics, accounting/finance, information systems, management, marketing, and human resources. It specifically examines the impact that various areas have on decision-making, and eventually connections at individual, local and global intersections. Both detrimental and beneficial societal outcomes are explored. 3 Credit(s).

BUS 190, 290 or 390 - Free Enterprise Strategies and Implementation

Credit Hour(s): 1
This is an elective course designed to allow students to obtain practical knowledge and experience about the way in which the free enterprise market economy functions. Students, as participants in the Entrepreneurial Action Us (ENACTUS) organization (formally SIFE), will design and organize structured activities on campus and in the community that utilize, apply, and teach the procedures, practices, and problems encountered in implementing strategies that encourage free enterprise. This course will be offered in the spring semester of each year. Only students who join and participate in the ENACTUS organization from the fall semester will be eligible to enroll in the course in the spring semester. This course is offered on a Pass/Fail basis. 1 Credit(s).

Course Session Cycle: SP

BUS 201 - Personal Finance

Credit Hour(s): 3
A basic finance course dealing with various aspects of individual financial decisions. The course develops proficiency in spending, saving, protecting, and investing money for the student. This proficiency includes learning budgeting, effective cash management, the proper use of credit, tax planning, making major purchases, risk management, insurance, investments, retirement and estate planning. 3 Credit(s).

Course Session Cycle: FASP

BUS 202 - Introduction to Investments

Credit Hour(s): 3
An introduction to the study of the securities markets and the characteristics of various types of securities for personal and institutional investment. Sources of investment information, time value of money, portfolio selection process and hands-on approaches to personal investment planning in the context of tolerance for risk. 3 Credit(s).

Course Session Cycle: FA
Course Yearly Cycle: EVEN

BUS 206 - Business Systems I

Credit Hour(s): 3
Develops an understanding of the administrative support role and the skills necessary to provide organizational and technical support in a contemporary office setting. Emphasizes the development of critical-thinking, problem-solving, and job performance skills in a business office environment. 3 Credit(s).

BUS 207 - Selected Topics in Business

Credit Hour(s): 3
This course is designed to meet the needs of students who are interested in or want to study various business topics, but may or may not be business majors or minors. These topics are not offered on the regular schedule. 3 Credit(s).
BUS 230 - Computer Applications

Credit Hour(s): 3
Provides the student with exposure to the various components of the computer and to specific business applications, such as word processing, electronic spreadsheets and graphics, database and information management, and presentation software. Academic credit toward the completion of 121 hours will not be given for both CSC 100 and BUS 230. Please note that BUS 230 is required for Accounting, Business Administration, and Computer Information Systems majors. 3 Credit(s).
Course Session Cycle: FASP

BUS 250 - Introduction to the Business and Economics of Sports

Credit Hour(s): 3
This course is an introduction to the economic, regulatory, management, marketing, and ethical issues as well as career opportunities in the field of sports in the for-profit as well as the non-profit setting. 3 Credit(s).
Course Session Cycle: FA

BUS 291, 292 to 491 - Service Learning Experiences in Business Administration

Credit Hour(s): 1
These courses provide students with credit for participating in professional service opportunities. These opportunities will be limited to those that provide professional level services under the direct guidance of a faculty member. Projects may include consulting services, preparation of business plans, marketing research, or any other professional business activity. All services will be provided free of charge. Each course will include a minimum of 8 hours of instruction, 12 hours of field experience, and a summary paper. This course may be taken up to three times, for a total of three credit hours if the student is involved in the same service project during three different semesters. Students involved in different projects may receive up to a total of six-credit-hours. 1 Credit(s). 12 Service Hour(s).
Course Session Cycle: FASP

BUS 302 - Records Management

Credit Hour(s): 3
This course addresses the record and information management process, the records management equipment, and the procedures regarding the storing retrieving and transferring of recorded information. In addition it addresses legal issues and security measures for securing and protecting records until they are destroyed or permanently archived. 3 Credit(s).

BUS 303 - Principles of Management

Credit Hour(s): 3
An introduction to the management functions of planning, organizing, leading and controlling and how they are evolving in today's business environment. An emphasis is placed on the management and mobilization of people to achieve organizational goals. 3 Credit(s).
Prerequisite(s): Junior standing.
Course Session Cycle: FASP

BUS 304 - Advertising

Credit Hour(s): 3
Designed to give the student a solid understanding of advertising as a business, as a marketing tool, and as a creative process. Topics to be covered include the economic and social aspects of advertising, advertising agencies, consumer
behavior, marketing research, the creative aspects of advertising, and media types. 3 Credit(s).

**Prerequisite(s):** ECO 202.

**Course Session Cycle:** FA

**BUS 305 - Professional Selling**

**Credit Hour(s):** 3
A blend of principles and practices, this course provides general information about sales careers and focuses on the process, skills, and techniques of professional selling in the business world. 3 Credit(s).

**Prerequisite(s):** ECO 202.

**Course Session Cycle:** SP

**BUS 308 - Business Communications**

**Credit Hour(s):** 3
Stresses nonverbal and verbal communications for business. Emphasis is placed on business letter and report writing and oral communications. 3 Credit(s).

**Prerequisite(s):** ENG 102.

**Course Session Cycle:** FASP

**BUS 311 - Marketing**

**Credit Hour(s):** 3
Creating customer value and relationships through understanding the marketplace, target markets, marketing opportunities and the marketing environment. An emphasis is placed on strategy development and decision making regarding the four key elements of the marketing mix-product, pricing, promotion and distribution. 3 Credit(s).

**Prerequisite(s):** ECO 202.

**Course Session Cycle:** FASP

**BUS 313 - Business Finance**

**Credit Hour(s):** 3
An introductory course covering the theory and practice of valuation, current and long-term financing of the firm, working capital management, capital budgeting, dividend policy, business expansion, and multinational financial management. Problems and cases are included. 3 Credit(s).

**Prerequisite(s):** ACC 202 and ECO 202.

**Course Session Cycle:** FASP

**BUS 314 - Advanced Corporate Finance**

**Credit Hour(s):** 3
A continuation of BUS 313, it includes an analysis of selected financial problems and institutions applying the concepts and techniques covered in BUS 313 to a case environment. The course covers the problems of integrating the functions of finance, production, and accounting for optimum financial gain. 3 Credit(s).

**Prerequisite(s):** BUS 313.

**Course Session Cycle:** SP

**Course Yearly Cycle:** EVEN

**BUS 315 - Business Law**
Credit Hour(s): 3
Emphasis on legal organization, law of contract, and agency. 3 Credit(s).
Prerequisite(s): Junior standing.
Course Session Cycle: FASP

BUS 316 - Retail Management

Credit Hour(s): 3
A study of the principles and methods of retailing. Emphasis is on managerial control and on developing and executing retail strategy. 3 Credit(s).
Prerequisite(s): ECO 202.
Course Session Cycle: FA

BUS 318 - Introduction to Electronic Commerce

Credit Hour(s): 3
An introduction to the electronic medium, principally the Internet, as a means of carrying out successful business transactions. The focus will be on the factors involved in efficiently developing, managing, and marketing a business via the Internet both as a stand-alone business and as a supplement to a bricks-and-mortar organization. Students will become familiar with setting up a business website and utilizing marketing, management, and accounting tools for web businesses. 3 Credit(s).
Prerequisite(s): ECO 202 and CSC 100 or BUS 230 or equivalent.
Course Session Cycle: FA

BUS 320 - Entrepreneurship

Credit Hour(s): 3
Designed to strengthen the student's entrepreneurial and managerial skills. Topics to be covered include the business plan, marketing, accounting, finance, organizational planning, and social responsibility. 3 Credit(s).
Prerequisite(s): ACC 201 and ECO 202.
Course Session Cycle: SP

BUS 325 - Advanced Computer Applications

Credit Hour(s): 3
Designed to provide advanced computer application skills including development of templates by utilizing the major pieces of software such as spreadsheet, graphics, operating systems, databases, and word processors. These tools will be used to assist the problem-solving/decision-making process. (Cross-listed with CSC 325.) 3 Credit(s).
Prerequisite(s): BUS 230.
Course Session Cycle: FASP

BUS 330 - Quantitative Methods: Management

Credit Hour(s): 3
Provides the student with skills in defining and solving management problems through the use of probabilistic and deterministic techniques in conjunction with appropriate software applications. Topics will include linear models, simplex method, transportation models, networking models, and queuing models. 3 Credit(s).
Prerequisite(s): ECO 202 and MTH 111.
Course Session Cycle: FASP

BUS 331 - Production/Operations Management
Credit Hour(s): 3
Provides exposure to the basic fundamentals in the planning and control of production and manufacturing systems. Topics will include plant location, forecasting, inventory management, materials requirement planning, scheduling techniques, and just-in-time production. 3 Credit(s).
Prerequisite(s): MTH 111.
Course Session Cycle: SP

BUS 395 - Directed Study
Credit Hour(s): 1-3
Based on project developed by student in consultation with the faculty member(s). 1-3 Credit(s).

BUS 403 - Human Resources Management
Credit Hour(s): 3
An introduction to personnel administration including selection and training of personnel, communication, wage administration, motivation, conflict resolution, and labor legislation. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a "C" or higher. Junior Status.
Course Session Cycle: FASP

BUS 409 - Equity and Bond Analysis
Credit Hour(s): 3
Application of data-intensive research methods in analysis of equity and bond investments. This course integrates computer-applications skills, ability to interpret accounting statements, and investment analysis. This course is cross-listed with ACC 409. 3 Credit(s).
Prerequisite(s): BUS 313, ACC 202. (ACC 302, ACC 303 and ANA 272 highly recommended).

BUS 410 - Marketing Research
Credit Hour(s): 3
Application of the scientific method in solving marketing problems. Topics covered include problem definition, research design, data collection, sampling, and interpretation of marketing information. It is highly recommended that students registering for this course have completed MTH 208 - Introductory Statistics with Business Applications or ANA 271 - Business Statistics with Statistical Software. 3 Credit(s).
Prerequisite(s): BUS 311.
Course Session Cycle: SP
Course Yearly Cycle: ODD

BUS 420 - International Business
Credit Hour(s): 3
Describes the nature and the scope of international businesses, introduces the three environments (domestic, foreign, international), and analyzes the forces in each environment as these forces impact on decision-making. 3 Credit(s).
Prerequisite(s): ECO 202.

BUS 430 - Management Information Systems
Credit Hour(s): 3
Examines management information systems from the perspective of the user. Emphasis will be placed on the systems development life cycle and the role of information systems in organizations. 3 Credit(s).
Prerequisite(s): BUS 325.
Course Session Cycle: SP
Course Yearly Cycle: ODD

BUS 492 - Global Competitiveness Practicum I

Credit Hour(s): 3
The GCP experience is designed to give students an opportunity to leverage their existing business skills, as well as, develop new ones in an exciting and team cooperative environment in a country outside the USA. Ferrum College students will work cooperatively with students from English speaking foreign Colleges or Universities. In this environment, new challenges such as language and cultural barriers, as well as high levels of ambiguity will be prevalent. This type of preparation will be highly beneficial to students in their future careers. BUS 492 should be taken the semester immediately prior to the term the travel is to take place. Students should not sign up for BUS 492 unless they are able to participate in the international travel experience. 3 Credit(s).
Course Session Cycle: FASP

BUS 493 - Global Competitiveness Practicum II

Credit Hour(s): 3
The GCP experience is designed to give students an opportunity to leverage their existing business skills, as well as, develop new ones in an exciting and team cooperative environment in a country outside the USA. Ferrum College students will work cooperatively with students from English speaking foreign Colleges or Universities. In this environment, new challenges such as language and cultural barriers, as well as high levels of ambiguity will be prevalent. This type of preparation will be highly beneficial to students in their future careers. BUS 492 should be taken the semester immediately prior to the term the travel is to take place. Students should not sign up for BUS 492 unless they are able to participate in the international travel experience. 3 Credit(s).
Prerequisite(s): BUS 492.

BUS 498 - Senior Seminar: Business Policy

Credit Hour(s): 3
Formulation of policy and strategy of private enterprises within a changing environment. Emphasis is on development of skills for identifying, analyzing, and solving real-world problems, which are selected from many substantive areas. Emphasis is on encouraging students to exercise judgment and synthesize this knowledge from all areas of the curriculum. This course is taken during the final semester. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. BUS 311, BUS 313 and Senior Status.
Course Session Cycle: FASP

BUS 499 - Internship

Credit Hour(s): 3
Internships are normally spent in a 400-hour off-campus work situation or voluntary service activity. They are carefully supervised and designed to provide practical experience in areas related to academic coursework. This course has an additional fee. 3 Credit(s). 400 Service Hour(s).
Prerequisite(s): BUS 308. 2.0 GPA in the major.
Course Session Cycle: FASP
Chemistry

CHM 103 - General Chemistry I

Credit Hour(s): 4
Introduction to the structure of atoms and molecules, stressing molecular electronic properties, periodic behavior, solutions, gas laws, chemical equilibrium, thermochemistry, and chemical properties. Mathematical relations are stressed throughout. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Pre-/Corequisite(s): MTH 100 or MTH 107 or higher. Additional prerequisite for CHM 104: MTH 100 or MTH 107 or higher with a grade of "C" or higher and CHM 103.
Course Session Cycle: FASP

CHM 104 - General Chemistry II

Credit Hour(s): 4
Introduction to the structure of atoms and molecules, stressing molecular electronic properties, periodic behavior, solutions, gas laws, chemical equilibrium, thermochemistry, and chemical properties. Mathematical relations are stressed throughout. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Pre-/Corequisite(s): MTH 100 or MTH 107 or higher. Additional prerequisite for CHM 104: MTH 100 or MTH 107 or higher with a grade of "C" or higher and CHM 103.
Course Session Cycle: FASP

CHM 105 - Introduction to Organic and Biochemistry

Credit Hour(s): 4
An introduction to the structural and functional relationship of organic and biological molecules including hydrocarbons and their derivatives, aldehydes, ketones, amines, carboxylic acids, esters, amides, carbohydrates, lipids, proteins and enzymes, and DNA and RNA. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): CHM 103, or a "C" or higher in High School Chemistry.
Course Session Cycle: FASP

CHM 180, 181 to 480, 481 - Practicum

Credit Hour(s): 1
Allows the student to gain firsthand experience and knowledge of procedures and practices common to the field by providing service to program, college, business, and/or the community. Pass/Fail. 1 Credit(s). 45 Service Hour(s).
Course Session Cycle: FA

CHM 190, 290, 390 or 490 - Special Topics

Credit Hour(s): 1-4
A course that allows the chemistry faculty, in response to student interest, to offer a class not normally in the schedule. 1-4 Credit(s).
Prerequisite(s): Permission of the instructor.
Course Session Cycle: FA

CHM 195, 196 to 495, 496 - Independent Research
Credit Hour(s): 1-3
Under faculty supervision, a student will design and carry out a rigorous scientific study of a specific problem in chemistry. Written and oral presentations of the research are required. The course must be approved by the supervising faculty member and the School Dean. 1-3 Credit(s).
Prerequisite(s): Coursework and skills determined by individual instructors.
Course Session Cycle: FA

CHM 220 - Principles of Pharmacology

Credit Hour(s): 3
Pharmacology introduces students to the fundamental concepts of drug therapy. Topics discussed include factors involved in drug administration, metabolism, toxicity, and function, as well as an introduction to drugs and drug classes. Societal and economic aspects of drug therapy in relation to issues such as drug cost, scheduling, regulation, and addiction are also covered. 3 Credit(s).
Prerequisite(s): BIO 111 or higher or CHM 103 or higher.
Course Session Cycle: Fall
Course Yearly Cycle: Odd

CHM 301 - Organic Chemistry I

Credit Hour(s): 4
A comprehensive, two-semester study of the compounds of carbon using the functional group approach and emphasizing reactions, mechanisms, synthesis, and spectroscopy. Three-hour laboratory each week. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): CHM 103 and CHM 104 or CHM 105.
Course Session Cycle: FA

CHM 302 - Organic Chemistry II

Credit Hour(s): 4
A comprehensive, two-semester study of the compounds of carbon using the functional group approach and emphasizing reactions, mechanisms, synthesis, and spectroscopy. Three-hour laboratory each week. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): CHM 301.
Course Session Cycle: FA

CHM 305 - Analytical Chemistry

Credit Hour(s): 4
A theoretical base for the analytical process is developed in the classroom and applied in the laboratory. Techniques for sample collection and preparation, data evaluation and the theory and methodology of the major chemical and instrumental techniques of analysis are presented. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): CHM 104.
Course Session Cycle: FA
Course Yearly Cycle: ODD

CHM 315 - Biochemistry

Credit Hour(s): 4
A study of the catabolic, anabolic, and energetic processes in living systems. Emphasis is on the relationships between the molecular structure and the interactions of biological molecules. This course has an additional fee. 4 Credit(s). 6
CHM 331 - Forensic Science

Credit Hour(s): 4
Laboratory-oriented course to develop a practical understanding of the scientific techniques used in forensic investigations. Students receive hands-on experience working with techniques used in modern forensic laboratories as well as an understanding of the scientific principles involved in using and developing those techniques. Emphasis is placed on the chain of evidence and appropriate statistical analysis of results obtained. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): CJU 335 and CHM 105 or CHM 301.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

CHM 341 - Physical Chemistry I

Credit Hour(s): 3
An introduction to physical chemistry for students in the life sciences. Physical chemistry is the analysis and modeling of physical aspects of chemical systems. Topics covered will include thermodynamics, physical transformations of pure substances, simple mixtures, chemical equilibrium, and chemical kinetics. 3 Credit(s).
Prerequisite(s): MTH 111, MTH 112, MTH 211, or MTH 221 and CHM 104 or PHY 204.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

CHM 342 - Physical Chemistry II

Credit Hour(s): 3
A complementary study of physical chemistry for advanced students. Physical chemistry is the analysis and modeling of physical aspects of chemical systems. Topics covered will include quantum theory, atomic structure and spectra, molecular structure, molecular symmetry, rotational and vibrational spectra, and molecular spectroscopy. 3 Credit(s).
Prerequisite(s): MTH 211 or MTH 221 and CHM 104 or PHY 204.
Course Session Cycle: SP
Course Yearly Cycle: ODD

CHM 405 - Advanced Chemistry Laboratory

Credit Hour(s): 4
This interdisciplinary chemistry laboratory provides students with laboratory experience using biochemistry, environmental chemistry, inorganic chemistry, physical chemistry, and instructional analysis through a laboratory rotation, intensive research projects, formal laboratory reports, and in-class presentations. Trips to regional laboratories will provide exposure to the usage of equipment not available at Ferrum College. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): CHM 301.

CHM 412 - Environmental Chemistry

Credit Hour(s): 3
Important concepts of chemodynamics (the science concerned with the movement and fate of chemicals within the three geospheres) are developed and applied in case studies. Description of chemical movement from the site of release and their tendency to be transformed in the environment is emphasized, rather than pollution analysis, control, and
health effects. 3 Credit(s).
**Prerequisite(s):** CHM 103 and CHM 104 or CHM 105.

**CHM 420 - Medicinal Chemistry**

**Credit Hour(s):** 3  
Medicinal Chemistry will introduce students to the fundamental concepts of medicinal chemistry from a bioorganic perspective. The impact of both chemical and biological concepts on drug design and therapeutic applications will also be discussed. Topics covered will include a study of the drug structure and the corresponding impacts on drug action, solubility, delivery, target binding, metabolism and interactions. 3 Credit(s).

**Prerequisite(s):** CHM 301.
**Course Session Cycle:** SP
**Course Yearly Cycle:** ODD

**CHM 425 - Inorganic Chemistry**

**Credit Hour(s):** 4  
A presentation of chemical structure, bonding, and reactions emphasizing elements other than carbon. Alternative theoretical approaches to bonding and structure are surveyed. Non-metal and coordination chemistry, organometallics, catalysis, and biochemical inorganic systems are studied. *This course has an additional fee.* 4 Credit(s). 6 Contact Hour(s).

**Prerequisite(s):** CHM 104 and CHM 105 or CHM 301.
**Course Session Cycle:** SP
**Course Yearly Cycle:** EVEN

**College Skills**

**CSK 092 - College Skills**

**Credit Hour(s):** 1, not for graduation  
Students on academic warning, or whose academic performance at midterm is identified as below satisfactory academic standards (i.e., failure to pass GWS 101 and/or 3+ D, F, or U grades at midterm), may be required to register and attend a College Skills class as stated in the College catalog. Multiple academic resources will be used to support students who are enrolled in this course. Students will be exposed to, and expected to use, a wide variety of mechanisms which have the proven potential to help students become more conscientious, disciplined and engaged as students work to regain good academic standing. *The hour for this course is not counted toward graduation credits.* Pass/Fail. 1 credit, not for graduation Credit(s).
**Course Session Cycle:** ANY

**CSK 096 - College Skills**

**Credit Hour(s):** 1, not for graduation  
Students on academic warning or probation are required to register and attend a College Skills class as stated in the college catalog. Students will work with multiple academic resources and will also analyze behaviors, academic strategies, and/or academic issues that placed the student on warning or probation. Students will be exposed to, and expected to use, a variety of mechanisms which have proven potential to help students become more conscientious, disciplined, and engaged as students work to regain good academic standing. One hour, credit not for graduation.

Pass/Fail. 1 credit, not for graduation Credit(s).
**Course Session Cycle:** ANY
Communication

COM 101 - Introduction to Mass Communication

Credit Hour(s): 3
This is a foundational course that establishes general knowledge about the field of mass media and communication. Students will explore the range of communication methods. Topics include print media, traditional broadcast industries, Internet communications and media regulation. This broad introduction is intended to help students identify their particular interests, and to aid them in choosing elective courses for their major emphasis or minor focus. 3 Credit(s).

COM 141, 142 to 441, 442 - Radio Performance Practicum/Seminar

Credit Hour(s): 1
This course introduces students to the basic principles and techniques required in the day-to-day operation of a college radio station. Students are taught to use the equipment necessary to do a radio broadcast. Students will begin developing voice and performance techniques for radio. Students learn how to maintain the proper records for reporting performance activities and the rules and regulations laid out by the Federal Communications Commission that govern broadcast in the United States. The laboratory for the class will be FerrumRadio.com, the Ferrum College radio station. The students involved in the practicum will maintain a regularly broadcast radio show throughout the semester they are enrolled in the course. The minimum show length will be two hours a week. Courses must be taken in order. 1 Credit(s).

Prerequisite(s): Starting with COM 142 each course has the preceding course as a prerequisite. (i.e. COM 141 for 142, 142 for 241 etc.).

Course Session Cycle: FASP

COM 190, 290, 390 or 490 - Special Topics in Media and Communication

Credit Hour(s): 3
This course provides flexibility to the Media & Communication curriculum by focusing on a timely topic of special interest that is not addressed in the regularly scheduled course offerings. Special Topics courses will provide students the opportunity to deepen their understanding of Media & Communication through in-depth study of narrowly defined topics. A student may repeat the course for credit only if the topics offered are different. 3 Credit(s).

COM 200 - Strategies for Public Relations and Social Media

Credit Hour(s): 3
Social media include social networking, podcasting, video sharing, blogging, social bookmarking, wikis and other collaborative content creation platforms. These media are changing the way public relations practitioners do their work. This course aims to present students with the core concepts of social media, acknowledging that this course's content will continually evolve. This course also covers case studies from all realms of public relations, including crisis communication, media relations, international public relations and more. While emphasizing the RACE strategy of crafting and delivering a public relations message (Research–Action planning–Communication-Evaluation), this course will hone students' skills at effectively analyzing a situation, applying the knowledge gained through their Ferrum courses thus far to elicit the best possible outcome and communicating their ideas and results in an effective manner. Students will explore cases using traditional and new media, learning how social media complement traditional campaign strategies. Students will also encounter real world professionals and situations to ensure that their experience in this class translates into their career as a public relations practitioner.

3 Credit(s).
Prerequisite(s): COM 101 and ENG 102 with a "C" or higher in each class.
Course Session Cycle: Fall
Course Yearly Cycle: Every

COM 201 - Public Speaking

Credit Hour(s): 3
Development of basic skills in oral communication through the study and practice of public speech construction and delivery, audience analysis, and listening and fundamental voice and body control. 3 Credit(s).
This course is designated by Ferrum College faculty to meet the entire Speaking Intensive requirement; a grade of "C" or higher in this course is required for this course to be used by a student to complete the Speaking Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the speaking assignments required by the course.
Prerequisite(s): ENG 102.
Course Session Cycle: FASP

COM 211 - Radio Broadcasting Methods

Credit Hour(s): 3
This course will familiarize students with the structure and design of a variety of radio program formats, including analysis of both the content and business paradigms of present day radio broadcasts. Students will learn to create and produce radio programs through writing and practical on-air experience. Students will also design daily broadcast and commercial programming schedules. 3 Credit(s).
Course Session Cycle: ET
Course Yearly Cycle: EVEN

COM 215 - Multimedia Storytelling

Credit Hour(s): 3
This course focuses on using a mobile device for multimedia storytelling. Students will explore and practice using the latest mobile tools (such as smartphones and tablets) and apps (such as Facebook, Twitter, Instagram, iMovie, Storify), with a commitment to telling stories that are fair, accurate, interesting, thorough, and humane. Specifically, students will learn to use the latest techniques and tools for writing, editing, video, audio and graphics for multimedia publication, including print, web and broadcast using mobile technology.

3 Credit(s).

Corequisite(s): COM 101 and ENG 102 with a "C" or higher in each class.

Course Session Cycle: Fall
Course Yearly Cycle: Every

COM 223 - Basic Audio Recording

Credit Hour(s): 3
Students will learn the language and techniques of capturing and mixing sound. They will develop the skills needed to produce coherent audio recordings while developing their ability to analyze production quality and aesthetics. A foundation in audio recording prepares the student to make musical recordings, contribute to video and motion picture productions, or work in sound reinforcement. It is an academic stepping-stone to greater success in other media courses and prepares majors for their senior seminar capstone project. 3 Credit(s).
Course Session Cycle: SP
COM 235 - Fundamental of TV and Video Production

Credit Hour(s): 3
This course familiarizes the student with standard video production equipment and techniques with an emphasis on electronic field production (EFP) for news gathering and location videography. Standard studio production methods and control room functions are also examined. 3 Credit(s).
Course Session Cycle: FA

COM 236, 237 to 436, 437 - Video Production Practicum

Credit Hour(s): 1
Students gain first-hand practical experience in video production by providing service to the College, local community, business, or the Media & Communication program. Forty-five service hours equals one credit. 1 Credit(s). 45 Service Hours.
Prerequisite(s): COM 235.
Course Session Cycle: FASP

COM 271 - On-line Media

Credit Hour(s): 3
Students are introduced to the fast changing world of online media in its various forms, and the societal effects of Internet communication. This course will also explore a variety of online media forms, including social media and virtual environments. It will include a critical examination of existing Internet media and discussion of future online media forms. 3 Credit(s).
Prerequisite(s): ENG 102 with a "C" or higher
Course Session Cycle: SP
Course Yearly Cycle: ODD

COM 304 - Communication Research

Credit Hour(s): 3
This course provides students with the opportunity to conduct research that relates to media and communication. Students are introduced to the concepts and principles of applied research activity. Students will identify research questions, design and implement research designs, and then interpret and report the results of their data collection. 3 Credit(s).
Prerequisite(s): COM 101 and ENG 102 with a "C" or higher.
Course Session Cycle: SP

COM 323 - Stage Audio

Credit Hour(s): 3
Students will learn the language and techniques of mixing live sound for the stage. They will develop the skills needed to produce effective audio reinforcement and their ability to analyze production quality and aesthetics. A foundation in audio reinforcement prepares the student to create and execute sound amplification strategies for a variety of stage productions intended for live audiences. 3 Credit(s).
Prerequisite(s): COM 223 with a "C" or higher.
Course Session Cycle: FA

COM 335 - Advanced Video Production
This course emphasizes production quality in visual storytelling. Students will use professional grade video production equipment, digital editing software, standard audio recording equipment, and mobile lighting equipment. Students will practice techniques for news gathering and location videography. High levels of sound recording and video production quality will be stressed while producing visual stories. 3 Credit(s).

Prerequisite(s): COM 235 with a "C" or higher.

Course Session Cycle: SP

COM 359 - Documentary Photography

This course focuses on capturing images in the documentary style. Media & Communication students may choose this as a program elective. Documentary Photography emphasizes visual storytelling that reflects reality as captured in the moment the image is made, rather than digital or darkroom image manipulation. This approach is essential to photojournalists and those interested in creating fact-based film or video. 3 Credit(s).

Prerequisite(s): ART 215 or ART 217 with a "C" or higher.

Course Session Cycle: SP

Course Yearly Cycle: EVEN

COM 369 - Mass Media and Behavior

Students are introduced to concepts of cognitive psychology in relation to the effects of mass media on both individuals and societies. These ideas and principles are discussed in class and applied in student-led class discussions. Students will produce a research paper chosen from among topics discussed in this course and present their paper to the class. 3 Credit(s).

Prerequisite(s): ENG 102 and PSY 201 with a "C" or higher in each class.

Course Session Cycle: FA

COM 433 - Media Scriptwriting

Emphasis on writing in several formats, student projects will include broadcast-ready scripts for radio and television, as well as a short motion picture script. This course prepares the production-oriented student for their senior seminar capstone project in Media and Communication. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a "C" or higher.

Course Session Cycle: SP

COM 483 - Senior Synthesis Seminar

This course is the capstone experience for Media and Communication majors. Students demonstrate an applied synthesis of media theory by producing either: (1) an empirical inquiry and scholarly report on one communication topic, or (2) a coordinated set of detailed planning and pre-production documents suitable for producing a professional-grade video or film. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102, COM 101, COM 304, COM 369 with a "C" or higher in each class.
Course Session Cycle: FASP

COM 499 - Internship

Credit Hour(s): 3
This course will allow the student to gain practical experience and apply their academic preparation in an environment related to their career interests. Internships are normally spent in a 400-hour off-campus work situation or voluntary service activity. They are carefully supervised and designed to provide practical experience in professional environments. This course has an additional fee. 3 Credit(s). 400 Service Hour(s).
Prerequisite(s): Junior Standing, program coordinator approval.

Computer Technology & Information System

CSC 100 - Computer Literacy

Credit Hour(s): 3
Intended to introduce the student to the computer and its usefulness in a variety of fields. The student will be exposed to a broad range of application concepts using Microsoft Office. Hands-on activities will include word processing, spreadsheet, database, and graphics. This course will not count toward either a major or minor in Accounting, Business Administration, Computer Science, Computer Information Systems, or Mathematics. Academic credit toward the completion of 121 hours will not be given for both CSC 100 and BUS 230. Please note that BUS 230 is required for Accounting, Business Administration, and Computer Information Systems majors. 3 Credit(s).
Course Session Cycle: FASP

CSC 101 - Introduction to Computers and Computer Information Systems

Credit Hour(s): 3
An introductory computer course that will explore the world of computers: how computers work, what they do, and how they do it. A basic introduction to computer programming and programming design, operating systems, and computer careers will be included in this course. 3 Credit(s).
Course Session Cycle: FA

CSC 102 - Hardware Maintenance and Troubleshooting

Credit Hour(s): 3
This course covers essential competencies for an entry-level IT professional or PC service technician. Topics covered included but may not be limited to installing, building, configuring, upgrading, troubleshooting and repairing personal computers, and troubleshooting basic network and Internet connectivity. In addition Microsoft Windows system management tools will be used to maintain and repair personal computers. Other topics covered will include the latest memory, bus, peripherals, and wireless technologies. 3 Credit(s).
Course Session Cycle: FA

CSC 125 - Concepts in Computer Information Systems

Credit Hour(s): 3
The course explores the world of computers and information systems (including hardware, software and operating systems), digital contents and security, networks, the Internet and web, social media, the ICT industry, big data and cloud technologies, as well as databases and programming. Real life concept application will be explored through
student designed projects. 3 Credit(s).

**Course Session Cycle:** FASP

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**CSC 126 - Infosys Data & Cyber Concepts**

**Credit Hour(s):** 3  
This course introduces the student to state-of-the-arts concepts and technologies surrounding information systems, (big)data, Internet of things (IoT), the cyberspace and cybersecurity, their wide application and relevance in the contemporary society, the emerging digital economy and a global but uncertain security landscape. 3 Credit(s).  
**Course Session Cycle:** FA

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**CSC 145 - Social Networking Best Practices**

**Credit Hour(s):** 3  
This course focuses on social networking interaction, the risks, and personal security on the Internet. It provides students with a comprehensive introduction to the field and covers critical social network services interaction with others such as experienced on Facebook, Twitter, LinkedIn, MySpace etc. Threats and vulnerabilities to specific social networking websites are examined in detail. Students will learn how to safely collaborate and interact through personal and professional social networking websites using computer security best practices. Issues associated with the impact of social computing on individuals and society will be addressed using several hands-on exercises. CSC 100, CSC 101, CSC 125 or BUS 230 recommended before taking CSC 145. 3 Credit(s).  
**Course Session Cycle:** FA

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**CSC 180 to 480 - Computer Science Practicum**

**Credit Hour(s):** 1  
The course will be tailored to the interest and talents of each individual student. The goal will be to give the student hands-on experience in some aspect of computer science not specifically addressed in the regular course curriculum. Examples of possible experiences include (but are not limited to) such things as aiding as an assistant in the computer laboratory during introductory classes, new software trials, installation, and investigations, working in the digital imaging laboratory, and computer language implementations. It must be stressed that the work will be carefully constructed around the student's background and interests. 1 Credit(s).

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**CSC 229 - Programming Concepts and Algorithm Design**

**Credit Hour(s):** 3  
This course is an introduction to programming logic and design using the language-independent approach designed to help students develop a strong foundation in traditional programming principles but without the rigorous attention to syntax rules associated with most programming languages. The techniques of finding solutions to problems through structured modular programming and step-wise refinement will be the focus as well as covering topics in the logic of constructing computer programs. Finally, algorithms will be introduced and used to demonstrate computer programming as a tool for problem solving. 3 Credit(s).  
**Prerequisite(s):** MTH 100 or higher and one of the following: CSC 100, CSC 101, CSC 125 or BUS 230.  
**Course Session Cycle:** FA

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**CSC 230 - Web Design**

**Credit Hour(s):** 3  
This course introduces the student to the techniques for building a website using Macromedia products. Topics will include design and graphic tools. Prerequisites: knowledge of Windows 2000 or later, the Internet, and basic search
methods. 3 Credit(s).

Prerequisite(s): Any CSC 100 level or higher or BUS 230.

CSC 235 - Programming for Portable Devices

Credit Hour(s): 3
This course prepares students to use the available tools and techniques for developing apps for popular portable devices including the iPhone, iPad, other Mac-based mobile devices, and Android based systems. Students will learn apps programming concepts and apply them immediately as they build and enhance real-world mobile applications. Available programming tools in the Mac and PC environments will be utilized to develop mobile applications using basic text, buttons, lists, tables and other widgets. Graphics and image capabilities available for mobile applications will also be explored. 3 Credit(s).
Prerequisite(s): CSC 229 and one of the following: CSC 100, CSC 101, CSC 125 or BUS 230.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

CSC 245 - Networking Fundamentals

Credit Hour(s): 3
This course is intended to introduce the student to the terminology, theory, applications, and problems involved in the area of computer networking including the OSI Model, Network Security, TCP/IP, Network Operating Systems and Cloud computing. The current technology and architectures in use will be studied. In addition, an overview of the various network types and design approaches will be presented. The student will be expected to investigate a particular local-area network (LAN) design and present it to the class. 3 Credit(s).
Prerequisite(s): CSC 101 or CSC 125 and either CSC 100 or BUS 230.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

CSC 290, 390 or 490 - Selected Topics in Computer Science

Credit Hour(s): 1-3
A course to acquaint students with important techniques, skills, principles, and ideas that are not covered in the regular CSC curriculum. These courses allow the program to adapt to the rapidly changing theory and technology in the field. These courses may be taught by Ferrum College faculty or by other professionals. Credit hours vary depending on course topic. 1-3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: ODD

CSC 310 - Java Programming

Credit Hour(s): 3
This course is an introduction to object-oriented programming concepts and the Java syntax to implement these concepts. The Visual J++ programming language will be used. Students will learn the fundamentals of structured logic using decisions, loops, array manipulation, and file handling. They will write Java applets that use GUI components (graphical user interface components such as buttons, check boxes, and menus) and Java graphics. 3 Credit(s).
Prerequisite(s): CSC 229 or CSC 320.
Course Session Cycle: SP
Course Yearly Cycle: ODD

CSC 312 - Computer Organization
Credit Hour(s): 3
Topics include basic digital circuits, Boolean algebra and combinatorial logic, data representation and transfer, digital arithmetic, digital storage and access, control features, input/output facilities, system organization, reliability, and features needed for multiprogramming, multiprocessing, and real-time systems. 3 Credit(s).
Prerequisite(s): CSC 229 or CSC 320.
Course Session Cycle: SP

CSC 320 - Programming Using C++

Credit Hour(s): 3
This is a programming course using the C++ programming language. The program development cycle is used to define, design, code, and test document applications using C++ programming language. Topics covered include variable definitions, selection structures, repetitive structures, function, classes, input/output files, arrays, strings, and pointers. 3 Credit(s).
Prerequisite(s): CSC 101 or CSC 125 and either CSC 100 or BUS 230.

CSC 321 - Data Structures

Credit Hour(s): 3
Provides the student with the fundamentals of data structure design and implementation. Topics include linked lists, strings, stacks, queues, arrays, representation of trees and graphs, searching and sorting techniques, and formal specification of data structures. 3 Credit(s).
Prerequisite(s): CSC 320.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

CSC 325 - Advanced Computer Applications

Credit Hour(s): 3
Designed to provide advanced computer application skills including development of templates by utilizing the major pieces of software such as spreadsheet, graphics, operating systems, databases, and word processors. These tools will be used to assist the problem-solving/decision-making process. (Cross-listed with BUS 325.) 3 Credit(s).

CSC 340 - Visual Basic for Applications

Credit Hour(s): 3
Visual Basic for Applications will introduce the students to the very latest methods for controlling input and output in the Microsoft Office suite of programs. Macros and Visual Basic applications will be used to integrate the power of Word, Excel, Power Point, and Access from the programming standpoint to greatly boost the power of each. 3 Credit(s).
Prerequisite(s): CSC 229.
Course Session Cycle: SP
Course Yearly Cycle: ODD

CSC 345 - Advanced Networking Configuration and Management

Credit Hour(s): 3
Installation and configuration of hardware is one of the most important aspects of networking. In the first part of the course, students will learn to evaluate, install, and configure commonly used hardware on today's networks. Hardware studied includes: network interface cards, hubs, routers, and switches etc. A large portion of this part will be devoted to router and switch configuration. The second part of the course is devoted to understanding how to administer a network
server is a vital element in preparing for a career in the field of networking. Lectures, projects and exercises reinforce skills as they are learned. Topics covered in this course include: Networking Overview (Introduction to Windows Server 2012), Installing Windows server, Server Management (Local and Remote), Configuring TCP/IP, Configuring server storage, File printer services, Introduction to Active Directory, Configuring Group Policies, Configuring and Implementing Dynamic Host Configuration Protocol (DHCP), Managing and Monitoring DHCP, Configuring Name Resolution, Implementing and Managing the DNS Service, Implementing and Configuring Virtualization with Hyper-V. Students will learn in a traditional class setting followed by Laboratory and Virtual Laboratory sessions and projects. Students will also be researching the Internet as well as following technical instruction manuals in order to complete hands on assignments. 3 Credit(s).

Prerequisite(s): CSC 245.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

CSC 350 - Operating Systems

Credit Hour(s): 3
Concerned primarily with the software organization of computer systems which support a wide variety of users. It is intended to bring together the concepts from the previous courses on data structures, programming languages, and computer organization by considering their role in the design of general computer systems. CSC 312 is highly recommended. 3 Credit(s).

Prerequisite(s): CSC 102.
Course Session Cycle: SP
Course Yearly Cycle: ODD

CSC 401 - Database Theory

Credit Hour(s): 3
Topics will include data normalization, Entity Relationship Diagrams (ERD), fundamental file-system organization, database implementation, information retrieval, methods to gain reliability, methods of protection of data, coding of data, and database operation and management. This is an Oracle-based course. 3 Credit(s).

Prerequisite(s): BUS 325.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

CSC 435 - Fundamentals of Cybersecurity

Credit Hour(s): 3
The course covers the full scope and depth of the issues involved in implementing a practical cybersecurity process, and provides a comprehensive framework of trustworthy practices for information assurance. This course will help students understand how the various roles and functions within cybersecurity practice can be combined and leveraged to produce a secure organization. Legal, ethical, and professional issues in information security are also addressed. 3 Credit(s).

Prerequisite(s): CSC 345 and Junior standing.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

CSC 444 - Computer Game Development

Credit Hour(s): 3
This course introduces students to computer game development. It uses C++, Windows with MFC, and the OpenGL game development system. The course includes a study of gaming data structures and the mathematics and physics of games as well as specific OpenGL techniques. A game development project accounts for 40% of the course grade. 3
CSC 445 - Digital Forensics and Cybercrime

Credit Hour(s): 3
This course introduces the student to concepts of Computer Forensics and cybercrime. It is designed to help students develop a strong foundation in 21st century digital forensics and investigation practices. It combines all-encompassing topic coverage, authoritative information from seasoned experts, powerful instructor resources, and real-world student applications-delivering the most comprehensive forensics resource available. The focus is on techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. Adopted text offers hands-on learning with clear instruction on the tools and techniques of the trade, introducing readers to every step of the computer forensics investigation-from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software and provides a demo downloads of popular tools like FTK Imager for use with Case Projects and Hands-On Projects-giving readers the opportunity to put their new skills into action. 3 Credit(s).
Prerequisite(s): CSC 102, CSC 245, CSC 345 and CSC 350.
Course Session Cycle: SP
Course Yearly Cycle: ODD

CSC 455 - Systems Analysis and Design

Credit Hour(s): 3
This course introduces the student to the concepts and skills of system analysis, design and implementation of information systems. With this course, students will learn how to integrate and apply their knowledge in management and information systems to solve real-world problems. Both structured systems development methods and object-oriented methods will be covered as well as the theories and principles of special systems development including determination of requirements, technical design and evaluation, and internal organization. 3 Credit(s).
Prerequisite(s): MTH 208 and any programming language course such as CSC 310, CSC 320 or CSC 340.
Course Session Cycle: FA
Course Yearly Cycle: ODD

CSC 498 - Senior Research Seminar (Capstone)

Credit Hour(s): 3
Discussion and presentation of papers by students and faculty on problems of current interest in Computer Information Systems using knowledge gained from previous courses and initiating new and current research ideas. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. Senior standing with a major in Computer Science.
Course Session Cycle: SP

CSC 499 - Internship

Credit Hour(s): 3-9
Internships are normally spent off-campus in work situations or voluntary service activities. They are carefully supervised and are designed to provide experience in areas related to academic coursework. This course has an additional fee. 3-9 Credit(s).

Criminal Justice
CJU 201 - Introduction to Criminal Justice

Credit Hour(s): 3
An introduction to the philosophy and history of criminal justice, the development and operation of criminal justice agencies in the United States. 3 Credit(s).
Course Session Cycle: FASP

CJU 204 - Fundamentals of Corrections

Credit Hour(s): 3
This course explores the development and functions of the American correctional system. The focus of this course will be on the functions of punishment and rehabilitation, historical and cross-cultural approaches to punishment, deterrence, and rehabilitation, and current theories and practices within correctional institutions. 3 Credit(s).

CJU 220 - Criminal Law

Credit Hour(s): 3
The focus of this course will be on the definitions and structure of criminal law, as well as defenses and excuses to criminal liability. Students at the conclusion of the course will be able to determine what conduct is "criminal" and understand the public policy considerations which underlie these definitions. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: FA

CJU 250 - Friction Ridge Analysis

Credit Hour(s): 3
Student will study the exploration of the techniques and methods of identification, capture, and analysis of fingerprint evidence, including consideration of the fundamentals of fingerprint patterns, classification formulas and extensions, scarred patterns, amputations and missing fingers, filing sequence, searching and referencing, Henry Classification, techniques for taking good fingerprints, problems in fingerprinting, latent impressions, powdering and lifting latent impressions, preparation of fingerprint charts for court testimony, and practical exercises for capturing fingerprints on a ten print card and live scan fingerprint machines. This course has an additional fee. 3 Credit(s).
Course Session Cycle: SP

CJU 300 - Dilemmas and Decision Making in Criminal Justice

Credit Hour(s): 3
The course defines the responsibilities of criminal justice personnel and explores the decision-making dilemmas faced by police, court, and corrections officials as they carry out their duties. Distinctions among basic theories of decision-making are addressed: 1) deontology, 2) utilitarianism, 3) peacemaking, 4) caring, and 5) a feminist-based approach. Controversial issues in criminal justice are also addressed. 3 Credit(s).
Course Session Cycle: SP

CJU 310 - Victimology

Credit Hour(s): 3
This course explores theories explaining victimization, the measurement and scope of victimization, fear of crime, the experience of victimization, and victims' interaction with the criminal justice and other systems that have direct contact with victims. Attention also is paid to prevention strategies. 3 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: ODD

CJU 311 - Restorative Justice

Credit Hour(s): 3
A justice course that reconsiders beliefs about punishment, habilitation, and justice and introduces an alternative approach based on values and principles. Restorative Justice moves beyond the victim-offender paradigm and views crime as violation against people and relationships. The course compares the moral roots and structural elements of the Western justice system and restorative justice, and how each model seeks to achieve order and security. Students will examine some of the legal and moral dilemmas posed by punitive responses to conflict, crime and violence, and how restorative justice can avoid these dilemmas. Students learn how restorative justice can be applied in the schools, courts and community and develop skills for facilitating restorative circles to address conflict and crime. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: SP

CJU 314 - Courts and the Judicial Process

Credit Hour(s): 3
Designed to give the student an in-depth study of the U.S. legal system and the judicial process. It will emphasize national structures, but also view state and local justice systems. 3 Credit(s).
Prerequisite(s): CJU 220.
Course Session Cycle: SP

CJU 315 - Constitutional Law for Criminal Justice Professionals

Credit Hour(s): 3
This course will explore the role of the United States Constitution in how it shapes the American legal system, with specific emphasis on how constitutional law governs police action. Its primary focus will be on the First, Fourth, Fifth, Sixth, Eighth, and Fourteenth amendments and their relationship to the American criminal justice system. 3 Credit(s).
Prerequisite(s): CJU 201, CJU 220 and PSC 101.
Course Session Cycle: SP

CJU 320 - Deviance and Social Control

Credit Hour(s): 3
An examination of deviance, norms, and the various sociological theories of deviant behavior. An emphasis upon the relationship of deviance to criminal behavior, as well as the social control mechanisms and our economic system. Deterrence and various types of deviant behavior will be explored. (Cross-listed with SOC 320.) 3 Credit(s).
Course Session Cycle: FA

CJU 330 - Criminal Investigation

Credit Hour(s): 3
Explores the theoretical and practical aspects of criminal investigations and their importance in the overall criminal justice process. The course will cover recognizing, evaluating, and processing evidence and crime scenes, as well as other information sources. This course has an additional fee. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: FA

CJU 335 - Introduction to Forensic Investigations
Credit Hour(s): 3
Forensics is the application of science as it applies to law enforcement. Topics will include physical evidence collection, fingerprinting, organic analysis, inorganic analysis, toxicology and serology, DNA, document examination, physical properties, and development of footwear and tire impressions. There will be exercises in: locating a buried body and processing the crime scene, lifting latent fingerprints, processing footwear/tire impressions, and reconstructing a crime scene from blood spatter analysis techniques. This course has an additional fee. 3 Credit(s).
Prerequisite(s): BIO 111, CHM 103.
Course Session Cycle: SP

CJU 340 - Interviewing and Crisis Intervention

Credit Hour(s): 3
This course introduces the interview as a basic tool of criminal justice practice, and the introduction to selected theoretical perspectives and intervention approaches applicable to various crisis situations. The course focuses on developing effective communication skills, mediating conflict, and defusing violence. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: FA

CJU 350 - Crime and Delinquency Prevention

Credit Hour(s): 3
The focus of the course will be on the relationship between the police and the community and ways to involve both sides of the process of reducing and managing crime. Topics will include technological advances related to crime prevention and public and private responses to the crime problem. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

CJU 360 - Police Operations

Credit Hour(s): 3
This course introduces fundamental law enforcement operations. Topics include the historical evolution of law enforcement operations and contemporary issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. Through an application setting, students utilize current methods and practices of local agencies in order to acquire a more comprehensive understanding of operational needs and logistics. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: FA

CJU 361 - Criminal Justice Administration and Leadership

Credit Hour(s): 3
This course provides an in-depth exploration of the structure, organization and operating procedures of American law enforcement agencies, including the ways in which they assess, evaluate and respond to crime. The course will review the relationship of leadership styles, communication skills and decision making on the effective performance of managers and subordinates. The class will also explore the impact of the environment and legal cases on the process of police administration. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: SP

CJU 370 - Research Methods & Statistics in Criminal Justice
Credit Hour(s): 3
An introduction to research methods in criminal justice and criminology, with applications to both pure and applied research. The course provides a basic conceptual framework for understanding and interpreting criminal justice research as well as designing, conducting, and evaluating research projects. 3 Credit(s).
Prerequisite(s): Junior standing.
Course Session Cycle: FA

CJU 375 - Crime Scene Photography

Credit Hour(s): 3
The purpose of this course is to enable students to accurately record crime scenes through the use of photography, both film and digital. The class covers the basic elements of photography as well as how photographs can be properly used as evidence in court. The focus of the course is on preparing visual images that accurately depict the subject, including photographing documents, accidents, fingerprints, tire tracks, and other trace evidence with attention to ultraviolet, fluorescent, and infrared photography. 3 Credit(s).
Course Session Cycle: ET

CJU 404 - Juvenile Justice System

Credit Hour(s): 3
Provides students with insights into the juvenile justice field with emphasis on corrective measures. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: EVEN

CJU 406 - Probation, Parole, and Community Corrections

Credit Hour(s): 3
This course examines probation, parole, and community-based correctional programs and the role they play within the criminal justice system. This course will also review a variety of long-established correctional treatment practices as well as new and innovative programs. 3 Credit(s). 38 Service Hour(s).
Course Session Cycle: SP
Course Yearly Cycle: ODD

CJU 408 - Rural Criminal Justice Issues

Credit Hour(s): 3
This course will provide students with the opportunity to critically examine the criminal justice system within a rural context. Much of the literature and analysis of the criminal justice system, that our students are exposed, is developed from the urban experience. Subsequently the rural criminal justice experience often goes unnoticed and unexamined. Students who are interested in criminal justice will benefit from this examination of the distinct characteristics and elements of the rural criminal justice process. The opportunity to understand rural criminal justice concepts and contexts will provide students with the appropriate empirical base to facilitate further study of the complete criminal justice experiences and processes. 3 Credit(s).
Prerequisite(s): CJU 201.
Course Session Cycle: SP
Course Yearly Cycle: ODD

CJU 430 - Specialized Investigations

Credit Hour(s): 3
Basic and advanced concepts of deviant sexual behavior and related criminal activity will be explored. At the
Conclusion of the course, students will recognize the different types of rapists, pedophiles, child molesters, and paraphilia. The responsibilities of law enforcement and other professions in investigations of criminal offenses will be presented. Students will have experience in criminal investigative techniques by profiling an assigned case. 3 Credit(s).
Prerequisite(s): CJU 330.
Course Session Cycle: FA

**CJU 435 - Forensic Investigations II**

**Credit Hour(s): 4**
The goal of this course is to apply skills and knowledge expected of an entry-level criminalist to the practical analysis of evidence in the criminal investigative process. Topics will include the applications of the scientific disciplines, including bloodstain analysis, questioned document analysis, controlled substance, and ballistics analysis. This course will provide a further intensive study on the analysis of physical evidence in practical laboratory exercises. 4 Credit(s).
5 Contact Hour(s).
Prerequisite(s): CJU 335.
Course Session Cycle: FA

**CJU 460 - Criminal Profiling**

**Credit Hour(s): 3**
Concentrated extension of the criminal investigative process that focuses on the evaluation of physical evidence and the reconstruction of crime scenes, with an emphasis on examining criminal behavior in order to identify the type of offender. Many crime scenes and serial offenders will be studied, including topics on victimology, cyber patterns, organized and disorganized scenes. 3 Credit(s).
Prerequisite(s): CJU 201 and CJU 330 or CJU 430.
Course Session Cycle: SP

**CJU 475 - Directed Research**

**Credit Hour(s): 3**
Under the supervision of a faculty member with appropriate expertise, students may complete a sustained research agenda relating to a topic of current theoretical and/or empirical interest within the criminal justice field and leading to the production of a substantial research paper. The student will be directed to research problems through published materials and/or field inquiry. 3 Credit(s).
Prerequisite(s): SOC 470 or SSC 251.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

**CJU 497 - Special Topics**

**Credit Hour(s): 3**
The content of the special topics course will change each time the course is offered. The subject matter of the course will be some highly specialized area of criminal justice which is not covered in depth in any other criminal justice course. Students may take a maximum of two different special topics courses for credit. 3 Credit(s).
Prerequisite(s): Permission of the Criminal Justice Program Coordinator.
Course Session Cycle: ET

**CJU 498 - Seminar**

**Credit Hour(s): 3**
The seminar is designed to explore and develop issues, both current and future, involving all aspects of criminal justice.
It will include, but is not limited to, issues related to causes of criminal behavior, prisons, intermediate sanctions, crime prevention, the role of police, and expectations of the 21st century. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher. Senior standing. 2.5 GPA in the major.

**Course Session Cycle:** FASP

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**CJU 499 - Internship**

**Credit Hour(s):** 3

The internship represents the culmination of the student's undergraduate preparation for professional practice. Students are placed in approved agencies and provided a supervised educational experience. They must spend a minimum of 125 hours in the agency during the semester. *This course has an additional fee. 3 Credit(s). 125 Service Hour(s).*

**Prerequisite(s):** Senior standing.

**Course Session Cycle:** ANY

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**Crop Science**

**CRP 180, 181 to 480, 481 - Practicum**

**Credit Hour(s):** 1

Allows the student to gain firsthand experience and knowledge of procedures and practices common to the field by providing service to program, college, business, and/or the community. Pass/Fail. *1 Credit(s). 45 Service Hour(s).*

**Prerequisite(s):** AGS 110.

**Course Session Cycle:** FA

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**CRP 190, 290, 390 or 490 - Special Topics**

**Credit Hour(s):** 1-4

Specifically designed for agriculture majors to be able to design an independent study class in a specialized field that is not normally in the schedule. *1-4 Credit(s).*

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**CRP 195, 196 to 495, 496 - Independent Research**

**Credit Hour(s):** 1-3

Under faculty supervision, students will design and carry out a vigorous scientific study of a specific problem in agriculture. Written and oral presentations of the research are required. *1-3 Credit(s).*

**Prerequisite(s):** ASI 201 and BIO 202.

**Course Session Cycle:** FA

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**CRP 301 - Principles of Field and Forage Crop Production**

**Credit Hour(s):** 4

Considers the importance of crop science and focuses on management of the crop environment, while emphasizing variety in crops and cultivation practices as a means of developing the concepts of field and forage cropping systems. *This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).*

**Prerequisite(s):** BIO 202.

**Course Session Cycle:** FA

**Course Yearly Cycle:** ODD
CRP 315 - Soil Science and Management

Credit Hour(s): 4
Examines properties of arable and natural soils, considering their various ecological functions, and studies productive management of soil tilth and fertility, while developing concepts of conservative, sustainable practice. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 110 OR BIO 111, AND CHM 103.
Course Session Cycle: FA

Dance

DAN 105 - Fundamentals of Dance Styles

Credit Hour(s): 1
This course introduces basic elements of dance including movement, rhythm patterns, balance, and body alignment. It presents specific techniques from ballet, tap, jazz, ballroom, folk, ethnic, and country line dancing to develop strength, flexibility, balance, precision, and the freedom to move more creatively. 1 Credit(s). 2 Contact Hour(s).
Meets the Activity Liberal Arts Requirement.
Course Session Cycle: FASP

DAN 106 - Fundamentals of Dance Styles

Credit Hour(s): 1
This course continues to introduce basic elements of dance ballet, tap, jazz, ballroom, folk or ethnic, and country line dances to improve strength, flexibility, balance, precision, and freedom of movement. 1 Credit(s). 2 Contact Hour(s).
Meets the Activity Liberal Arts Requirement.
Course Session Cycle: FASP

DAN 110 - Beginning Dance for Performance I

Credit Hour(s): 1
This course introduces movement patterns, such as soft shoe, trenches, and sugar foot, that choreographers frequently expect actors, singers, and other performers to do on stage. It develops the performers' awareness of their bodies and how movement communicates meaning. Students will perform publicly. 1 Credit(s). 2 Contact Hour(s).
Meets the Activity Liberal Arts Requirement.
Course Session Cycle: FASP

DAN 111 - Beginning Dance for Performance II

Credit Hour(s): 1
This course introduces more complex movement patterns and awareness of space and time. It introduces the particular demands of working in various types of costumes. Students will perform publicly. 1 Credit(s). 2 Contact Hour(s).
Meets the Activity Liberal Arts Requirement.
Course Session Cycle: FASP

DAN 121 - Rhythm with the Feet

Credit Hour(s): 1
This course introduces the history and steps from Irish and Appalachian dances. It considers the influences of these
traditions on American tap. 1 Credit(s). 2 Contact Hour(s).
Meets the Activity Liberal Arts Requirement.

**DAN 122, 123 to 422, 423 - Private Dance Lessons**

**Credit Hour(s): 1**
One-hour private dance lessons will be made available in ballet, tap, jazz, modern, interpretive, and emerging dance styles and techniques. Lessons will allow dance students the opportunity to study dance theory and technique at a more advanced level. Prior experience in dance is expected. The more advanced the student, the more demanding and complex the course of instruction. Admission by permission of instructor. *This course has an additional fee. 1 Credit(s).*
**Course Session Cycle:** FASP

**Democracy, Justice and Civic Engagement**

**DJC 496 - Individual or Collaborative Study**

**Credit Hour(s): 3**
Working under the direction of individual faculty members, students conceptualize, design, and begin to implement action-oriented projects that they continue to develop throughout the remainder of their senior year. Faculty project directors are matched with students based on the subject matter and scope of projects. Students may elect to conduct research in issues relating to democracy, justice, and/or civic or choose to develop a project with an activist orientation, such as starting an interest group or promoting a campus, local, regional, or national cause, or spearheading a community improvement project. *3 Credit(s).*

**DJC 498 - Democracy, Justice and Civic Engagement Senior Seminar**

**Credit Hour(s): 3**
Students will present the research projects that they previously developed twice over the course of the semester: once in a process of peer-review towards the beginning of the semester and a second, formalized presentation at the end of the semester. In between these presentations, students will be conducting intensive, community-based research in preparation for their final presentation. Students will also select readings and lead discussion with their classmates for the purposes of discussion and reflection towards the middle weeks of the semester. *3 Credit(s).*
**Prerequisite(s):** DJC 496.

**Economics**

**ECO 201 - Principles of Macroeconomics**

**Credit Hour(s): 3**
Definition of economics and its methodology. Scarcity and the resulting macroeconomic problems. Measures and fluctuation in the level of economic activity (size and components of GNP, full employment, growth), stabilization policies, (inflation, unemployment). Money, financial markets and monetary policy in an open economy. *3 Credit(s).*
Meets Social Science Requirement.
**Course Session Cycle:** FASP

**ECO 202 - Principles of Microeconomics**

**Credit Hour(s): 3**
Scarcity and the resulting microeconomic problems. Demand and supply analysis and applications. Production and cost
functions (elements of location theory). Market structures, industry and firm conduct and performance. Factor demand analysis. 3 Credit(s).
Meets Social Science Requirement.

Course Session Cycle: FASP

ECO 205 - Black Gold, Speed, White Lightning and Tobacco-Economics of Growth and Decline in Appalachia

Credit Hour(s): 3
This course seeks to identify and to analyze the economic factors that impact industry growth and the decline in the Appalachian Region by examining how four industries have fared over the years. More specifically it will address: coal, moonshine, NASCAR and tobacco, and will evaluate the impact that they had in the region. It will conclude with a round-table discussion on the future of the Region. 3 Credit(s).

ECO 313 - Money and Banking

Credit Hour(s): 3
Involves the study of money, financial institutions and markets, interest rates, the banking system, and monetary policy. Domestic as well as international financial systems are studied. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. Prerequisite(s): ENG 102 with a grade of "C" or higher. Three hours of ENG 200-ENG 212, ECO 201 and ECO 202.
Course Session Cycle: FA
Course Yearly Cycle: ODD

ECO 315 - Environmental and Natural Resource Economics

Credit Hour(s): 3
This course provides the student with an opportunity to utilize a variety of economic tools to address issues of natural resource use, the resulting environmental issues and implications, and the proposed environmental policies in a framework of sustainable economic development. 3 Credit(s).

ECO 321 - History of Economic Thought

Credit Hour(s): 3
A presentation of economic ideas and doctrines which have been most influential toward establishing the dominant economic systems of the past and the present and which are emerging as important to the design of economic systems of the foreseeable future. These ideas and doctrines will be critically examined for useful content in view of social conditions and the distribution of political power during their times, as well as their present and future applicability. 3 Credit(s).
Prerequisite(s): ECO 201 and ECO 202.

ECO 330 - International Trade

Credit Hour(s): 3
Trade theories, traditional and modern. International resource allocation, trade flows, tariff and non-tariff barriers to trade. GATT rounds. Multinational corporations and foreign direct investment. Commercial trade policies. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade
of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. 
Prerequisite(s): ENG 102 with a grade of "C" or higher. ECO 201 and ECO 202.

ECO 400 - International Finance

Credit Hour(s): 3
Analysis of foreign exchange and foreign exchange markets, balance of payments disequilibrium and adjustment, exchange rate risk management for MNC's and FDI. 3 Credit(s).
Prerequisite(s): ECO 201 and ECO 202.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ECO 402 - Business Cycles and Forecasting

Credit Hour(s): 3
An examination of the forces determining the level of national income and employment in the economic system. Causes of fluctuations in income and employment are analyzed as well as business cycle theories and counter-cyclical policies of government. Theories of macroeconomic behavior and forecasting are studied. 3 Credit(s).
Prerequisite(s): ECO 201 and ECO 202.

ECO 405 - Government and Business

Credit Hour(s): 3
Antitrust and regulation based on economic and social criteria: legal basis, limitations, and the instruments and objects of controls. Justifications of regulation (social, economic); costs of regulation. Analysis and evaluation of government agencies and commissions (FDA, EPA, FCC, SEC, CPC, etc.) 3 Credit(s).
Prerequisite(s): ECO 201 and ECO 202.

ECO 430 - Development Economics

Credit Hour(s): 3
Measurements and income distribution. Obstacles, constraints, factors, and theories of economic development. Aid, planning and actual experiences (NIC's, Latin American countries). New considerations to the development process. North-South relations. 3 Credit(s).
Prerequisite(s): ECO 201 and ECO 202.

ECO 490 - Selected Topics in Economics

Credit Hour(s): 3
This course provides flexibility to the economics curriculum by focusing on a topic of special interest that is not addressed in the regular course offerings. This course will provide students with the opportunity to deepen their understanding of economics through an in-depth study of narrowly defined topics. A student may repeat the course for credit only if the topics offered are different. 3 Credit(s).
Prerequisite(s): ECO 201 and ECO 202.

Ecotourism

ECT 110 - Nature Guiding
Credit Hour(s): 1
Nature guiding is an essential skill for those wishing to work in ecotourism, outdoor recreation or environmental education. Students will learn the basics of interpretive guide theory and techniques. Students will participate in, plan and deliver guided hikes focused on the natural and cultural heritage of the Blue Ridge region. 1 Credit(s), 2 Contact Hour(s).
This course meets an activity requirement.
Course Session Cycle: Fall and Spring

ECT 165 - World Ecotourism Destinations and Cultures

Credit Hour(s): 3
This course is a study of top ecotourism destinations around the world. Students will learn about the cultures, environments, and tourist sites that draw tourists to each destination. Students will also learn about push/pull travel motivations, basic tourism theory, and leisure of different cultures. 3 Credit(s).
Meets Social Science Requirement.
Course Session Cycle: FA

ECT 257 - Interpreting Culture and Nature

Credit Hour(s): 3
This course seeks to develop the knowledge and abilities necessary to plan high quality cultural/natural interpretation. After the course, students will understand audiences and the significances of resources so that they may select appropriate techniques for the creation of programs, products and services. They will discuss, compare and put into practice diverse theories, perspectives, methodologies and interpretive tools. 3 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: ODD

ECT 265 - Foundations of Ecotourism

Credit Hour(s): 3
As an overview of general principles and theory of the hospitality and tourism industry with a focus on ecotourism, this class is a critical stepping stone of knowledge preparing students for a career in ecotourism. Topics include origin of ecotourism; ecotourism environments, present characteristics of the ecotourism market and destination development; importance of ecotourism to state and federal economies; environmental, economic, and socio cultural impacts; and implications of business and non-business eco-travel. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ECT 270,271 to 470,471 - Ecotourism Practicum

Credit Hour(s): 1
Designed to allow students to obtain practical hands-on experience working in the Ecotourism field. Students will be required to spend a minimum of 50 hours with an approved agency. 1 Credit(s), 50 Contact Hour(s).
Course Session Cycle: Fall and Spring

ECT 312 - Protected Area Management

Credit Hour(s): 3
The world's protected areas serve as repositories of biodiversity, regulators of climate, laboratories for research, sanctuaries for aesthetic and spiritual inspiration, and natural arenas for outdoor recreation and exploration.
Protected area management requires a blend of community participation, interpretation, law enforcement, natural and cultural resource management, administration, and maintenance. This course is an overview of protected area management principles and techniques. Special emphasis will be given to climate change, poverty, indigenous cultures, biodiversity conservation, endangered species, and responsible tourism management.

3 Credit(s).

Course Session Cycle: Fall
Course Yearly Cycle: Even

ECT 357 - Applied Interpretation

Credit Hour(s): 3
Students will apply interpretive communications theory and processes toward the conservation and promotion of their cultural and natural patrimony. Students are expected to apply their knowledge by planning, choosing and producing appropriate interpretive media. The class will feature planning for interpretive trails, exhibits, electronic media such as radio and television, as well as live events such as music and theatre. Site promotion will emphasize the use of low-cost, high-quality media products to reach the target audiences of community-based tourism sites or social causes. 3 Credit(s).

This course is designated by Ferrum College faculty to meet the entire Speaking Intensive requirement; a grade of "C" or higher in this course is required for this course to be used by a student to complete the Speaking Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the speaking assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SP
Course Yearly Cycle: ODD

ECT 391 - Cultural and Heritage Tourism

Credit Hour(s): 3
An in-depth exploration of tourism to cultural and heritage sites. Local examples of existing culture and heritage sites/destinations will be used as case studies to show the effectiveness of using culture and heritage sights as tools of local economic development, strengthening community, and preserving culture/heritage. Additional topics will include history of culture and heritage tourism, today's culture and heritage tourism industry, marketing and market segmentation, and designing and programming cultural and heritage tours. 3 Credit(s).

Course Session Cycle: ET

ECT 421 - Issues in Sustainable and Ecotourism

Credit Hour(s): 3
A capstone course that explores the many facets of ecotourism in a research and seminar format. Special attention will be paid to ecotourism as a responsible form of tourism in which protecting natural environments and cultures while improving local economies are the primary goals. Students will learn about using ecotourism as means of protecting green space and integrating local people into the tourism process to all stages of development. 3 Credit(s).

Course Session Cycle: SP
Course Yearly Cycle: EVEN

ECT 499 - Ecotourism Internship

Credit Hour(s): 4
The internship in ecotourism provides a capstone, experiential learning opportunity. The student will work with an approved ecotourism business, agency or organization. 4 Credit(s). A minimum of 400 hours is required. Service
Education

EDU 147, 247 or 347 - Selected Topics in Education

Credit Hour(s): 3
This course is designed to provide students opportunities to study specialized topics and timely issues in education through the parameters of a class. The topics courses typically provide elective credit in the teacher education minor, and may be repeated if the topics are different. Courses at the 147 and 247 level are those in which students are acquiring a knowledge base through the direction of the faculty member. Courses at the 347 level will require students to integrate the skills and knowledge from previous experiences thorough a combination of faculty guidance and working independently on assigned tasks. 3 Credit(s).
Prerequisite(s): Will be stipulated in each topics course description.

EDU 202 - Introduction to 21st Century Education

Credit Hour(s): 3
This course provides an introduction to the teaching profession using public school classrooms as the setting for observation during internship. The course develops an understanding of the multiple aspects of the teachers' work; explores a range of key issues related to 21st century educational practices. Topics include the purpose of schools, the teaching profession, legal issues, governance, finance, equity issues, an introduction to special education and multicultural education, as well as the relationship between politics and education. The development of a personal philosophy of education begins here with the understanding of school structure. Students are required to attend a lab to prepare for the Virginia Language and Communication Assessment (VCLA) and to complete a 20-hour internship in a local school division. 3 Credit(s). 20 Service Hour(s).
Course Session Cycle: FASP

EDU 203 - Foundations and Trends in Education

Credit Hour(s): 3
This course provides an overview lens through which the student views the history, philosophy, psychology, and sociology of general and special education in American schools. Through multiple readings and directed activities students create a developmental pedagogical framework in order to gauge the practicality of educational theory and philosophies for the public school setting. Students are required to participate in a lab to prepare for the Praxis Core Academic Skills for Educators Test in Mathematics and complete a 20-hour internship in a local school division. 3 Credit(s). 20 Service Hour(s).
Course Session Cycle: FASP

EDU 310 - Developmental and Diagnostic Reading

Credit Hour(s): 3
This course establishes the foundation for teaching reading and for diagnosing reading difficulties at the elementary level. The theoretical foundations and developmental nature of the reading process is examined. Instructional methods related to grapho-phonemic, syntactic, and semantic cueing systems are modeled and applied. The course relies on the reading and interpretation of children's and adolescent literature as a base of instruction. This course includes a required 20-hour internship in a local school division. This course has an additional fee. 3 Credit(s). 20 Service Hour(s).
Prerequisite(s): EDU 202 and EDU 203. It is recommended that students pass the VCLA before taking this course if seeking licensure in Elementary Education PreK-6, pass VCLA. This course has an additional fee.
**Corequisite(s):** EDU 311.

**Course Session Cycle:** SP

### EDU 311 - Elementary Language Arts Methods

**Credit Hour(s):** 3

This course completes the reading block for elementary endorsement candidates. The many facets of reading, writing, speaking, and listening are explored for teaching and learning content across the curriculum in elementary and middle school classrooms. This course includes a required 20-hour internship in a local school division. *3 Credit(s). 20 Service Hour(s).*

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher; EDU 202 and EDU 203. It is recommended that students pass the VCLA before taking this course if seeking licensure in Elementary Education PreK-6.

**Corequisite(s):** EDU 310.

**Course Session Cycle:** SP

### EDU 312 - The Profession of Teaching: Content Reading Literacy

**Credit Hour(s):** 3

This course immerses secondary and all-level candidates in the concept of literacy for students beyond the elementary level. Finding the appropriate strategies, scaffolding and applications for reading, writing, speaking and listening in discipline content areas creates the foundation for this class. Teaching the content of one's discipline through the use of appropriate literacy approaches are practiced and applied. This course includes a required 20 hour internship in a local school division. *This course has an additional fee. 3 Credit(s). 20 Service Hour(s).*

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

This course includes a required 20 hour internship in a local school division.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher; junior or senior status; EDU 202, EDU 203, pass VCLA.

**Course Session Cycle:** SP

### EDU 320 - Elementary Math Methods

**Credit Hour(s):** 3

Students who are pursuing licensure for Teacher Education will examine the content knowledge, teaching strategies, methods, and cultural applications as well as the theoretical foundations necessary for teaching math effectively in the elementary school through 6th grade. *3 Credit(s).*

**Prerequisite(s):** EDU 202, EDU 203, and MTH 105. It is recommended that students pass the VCLA and PCASE Math (or have met the SAT/ACT established pass score) before taking this course if seeking licensure in Elementary Education PreK-6.

**Course Session Cycle:** FA

### EDU 330 - The Profession of Teaching: The Middle School

**Credit Hour(s):** 3

The middle school encompasses grades 6-8; therefore, this course is strongly recommended for elementary, secondary and all-level program candidates since licensure for each includes grade 6. The distinguishing characteristics of the middle school curriculum as well as middle school learners are the foundation for this course. Program candidates develop strategies for teaching middle school learners. *This course has an additional fee. 3 Credit(s).*

**Prerequisite(s):** EDU 202 and EDU 203, pass VCLA and PCAS.
EDU 335 - Psychological and Educational Assessment

Credit Hour(s): 3
Covers test construction, observation, interviewing, rating scales, personality inventories, intelligence tests, interest tests, and ability tests. Cross-listed with PSY 335. 3 Credit(s).

Prerequisite(s): PSY 201
Course Session Cycle: SP
Course Yearly Cycle: Even

EDU 350 - Elementary Social Studies and Science Methods

Credit Hour(s): 3
This course is designed for students seeking to teach the content areas of science and social studies at the elementary level. The course includes the use of Virginia Standards of Learning (SOLs), instructional strategies, and curriculum development to prepare students in the areas of elementary social studies and science. Emphasis is placed on the use of technology in instructional practices. 3 Credit(s).

Prerequisite(s): EDU 202, EDU 203, HIS 201, HIS 202, and SCI 250. It is recommended that students pass the VCLA before taking this course if seeking licensure in Elementary Education PreK-6.
Course Session Cycle: SP

EDU 352 - Classroom Management and Differentiated Instructional Strategies

Credit Hour(s): 3
Students seeking elementary/middle school endorsement concentrate in this course on classroom management and differentiated instruction. This course seeks to help teacher candidates understand the complexities in today's classrooms. This course assists candidates in relating to diverse populations by developing procedures and rules for the classroom; learning about problem behaviors; meeting the needs of special students, parents, and community; and motivating and encouraging students while managing the physical space and time in the classroom. This course assists students in understanding the relationship between differentiated instruction and classroom management with the goal of developing student understanding of the impact of instruction on classroom management. This course requires forty (40) hours of internship. Program candidates are encouraged to take and pass Praxis II and the RVE as a part of the course requirements. This course has an additional fee. 3 Credit(s). 40 Service Hour(s).

Prerequisite(s): EDU 310 and EDU 311. Students must meet all Teacher Education Program admission requirements including passing score on VCLA, PCASE Math or have met the SAT/ACT established pass score.
Corequisite(s): EDU 353.
Course Session Cycle: FA

EDU 353 - Elementary/Middle School Curriculum, Instruction and Assessment Strategies

Credit Hour(s): 3
Students seeking elementary/middle school endorsement concentrate on curriculum, instruction and assessment, and focus on methods appropriate to their major and level of endorsement. Students are introduced to the Clinical Cycle process, a variety of theories about teaching and learning, and topics such as setting instructional goals, instructional approaches to teaching and learning, learning to deliver lessons, assessing student learning and reporting student learning, promoting critical thinking, units and lesson planning. This course requires 20 hours of internship. Program candidates are encouraged to take and pass Praxis II and the RVE as a part of the course requirements. This course has an additional fee. 3 Credit(s). 20 Service Hour(s).

Prerequisite(s): EDU 310 and EDU 311. Students must meet all Teacher Education Program admission requirements including passing score on VCLA, PCASE Math or have met the SAT/ACT established pass score.
EDU 355 - The Profession of Teaching: Secondary and Middle School Curriculum, Instruction and Assessment Strategies

Credit Hour(s): 3
This course prepares students to teach in grades 6-12 with opportunities in the following topics: decision making, developing, planning and implementing and assessing instruction; aligning instruction with appropriate content area state standards; principles of learning; the application of skills in the discipline-specific methodology; the selection of instructional strategies and materials; the use of technology in planning, implementing and assessing learning. Program candidates are introduced to the Clinical Cycles and will teach a minimum of six lessons. Students are required to complete a 20 hour internship. Program candidates are required to take and pass Praxis II as part of course requirements. This course has an additional fee. 3 Credit(s), 20 Service Hour(s).
Prerequisite(s): EDU 312, passing scores on VCLA and PCAS.
Corequisite(s): EDU 357.
Course Session Cycle: FA

EDU 357 - The Profession of Teaching: Secondary and Middle School Classroom Management and Differentiated Instructional Strategies

Credit Hour(s): 3
This course prepares students to teach in grades 6-12 with opportunities in the following topics: developing and implementing classroom management plans based on theory and empirical research; teaching methods and strategies used in general education classrooms that are appropriate for those students who are gifted as well as those with exceptional challenges. Program candidates learn strategies to expand the learning opportunities for all students in their content discipline classrooms. Students are required to complete a 20 hour internship. Program candidates are required to take and pass Praxis II as part of course requirements. This course has an additional fee. 3 Credit(s), 20 Service Hour(s).
Prerequisite(s): EDU 312, passing scores on VCLA and PCAS.
Corequisite(s): EDU 355.
Course Session Cycle: FA

EDU 358 - The Profession of Teaching: All-Level (Pre-K-12) Curriculum, Instruction and Assessment Strategies

Credit Hour(s): 3
This course prepares All-level program candidates in Art, Foreign Language, Physical Education and Theatre Arts to teach PK – 12 students through instruction in the following topics: decision making, developing, planning and implementing and assessing instruction; aligning instruction with appropriate content area state standards; principles of learning; the application of skills in the discipline-specific methodology; the selection of instructional strategies and materials; the use of technology in planning, implementing and assessing learning. Emphasis is placed on the distinction between elementary curriculum, instruction and assessment compared to middle/secondary school. Program candidates are introduced to the Clinical Cycles and will teach a minimum of six lessons. Students are required to complete a 20 hour internship. Program candidates are required to take and pass Praxis II as part of course requirements. This course has an additional fee. 3 Credit(s), 20 Service Hour(s).
Prerequisite(s): EDU 312, passing scores on VCLA and PCAS.
Corequisite(s): EDU 360.
Course Session Cycle: FA
EDU 360 - The Profession of Teaching: All-Level (Pre-K-12) Classroom Management and Differentiated Instruction Strategies

Credit Hour(s): 3
This course prepares All-level program candidates in Art, Foreign Language, Physical Education and Theatre Arts to teach PK – 12 students through instruction in the following topics: developing and implementing classroom management plans based on theory and empirical research; teaching methods and strategies used in general education classrooms that are appropriate for those students who are gifted as well as those with exceptional challenges. Program candidates learn strategies to expand the learning opportunities for all students in their content discipline classrooms. Students are required to complete a 20 hour internship. Program candidates are required to take and pass Praxis II as part of course requirements. This course has an additional fee. 3 Credit(s). 20 Service Hour(s).
Prerequisite(s): EDU 312, passing scores on VCLA and PCAS.
Corequisite(s): EDU 358.
Course Session Cycle: FA

EDU 404 - Student Teaching and Synthesis Experience

Credit Hour(s): 12
Student teaching for all endorsement levels is an intensive clinical experience. Students spend twelve weeks in the public schools teaching at the appropriate endorsement level and are expected to manifest their personal educational philosophies in the classroom. The course includes completion of clinical cycles, weekly seminars, assigned readings, and all related professional responsibilities. Students then return to campus to participate in a lab component to complete an electronic portfolio and action research project that reflects mastery of program standards. This course has an additional fee. 12 Credit(s). 300 Contact Hour(s). Twelve Weeks in public schools. Service Hour(s).
This course is designated Writing Intensive; a grade of C or higher in this course is required for this course to count toward the six credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of C or higher in this course unless he or she earns a C or higher on the writing assignments required by the course.
Prerequisite(s): EDU 352/EDU 353, EDU 355/EDU 357 or EDU 358/EDU 360 and compliance with all published program and licensure testing requirements. This includes passing scores on VCLA, PCASE Math (or having met the SAT/ACT established pass score), Praxis II, and RVE (Elementary PreK-6 Licensure only). Students not meeting all prerequisite requirements may petition the teacher education committee for admission to EDU 404 through a process specified in the teacher education program handbook. Instructor consent must be given before registration for this course.
Course Session Cycle: Fall and Spring

English

ENG 100 - Fundamentals of Writing

Credit Hour(s): 3
The course develops competency in the use of English mechanics, word usage, and sentence structure in order to develop effective paragraphs and thesis-based essays. (Hours earned count toward graduation, but course does not meet Liberal Arts Requirements.) 3 Credit(s).
Course Session Cycle: FA

ENG 101 - Composition and Rhetoric

Credit Hour(s): 3
This course teaches the fundamentals of college-level critical reading and writing with attention given to rhetorical concepts and conventions of standard written English. Students will develop writing projects through multiple stages of the drafting process. Passing ENG 101 with a "C" or higher is a prerequisite for ENG 102 and is a graduation
ENG 102 - Composition and Research

Credit Hour(s): 3
This course teaches rhetorical analysis of contexts and audiences with an emphasis on thesis-based writing with sources, including the argument research paper. Students will develop competency in information literacy and writing in multiple stages in response to primary readings across the curriculum. Passing ENG 102 with a grade of "C" or better is a graduation requirement of the College. Students must repeat the course immediately if they do not meet this standard, because a "C" or better is also a prerequisite for other critical courses, including all sophomore literature courses and upper-level courses offering Writing Intensive credit. 3 Credit(s).
Meets Freshman English Requirement.
Prerequisite(s): ENG 101 with a grade of "C" or higher.
Course Session Cycle: FASP

ENG 131, 132 to 431, 432 - Journalism Practicum

Credit Hour(s): 1
An introduction to the basic principles and techniques of journalism through practical experience on the campus newspaper. In addition to class meetings on such general topics as the reporter's stance, news leads, news sources, attribution techniques, copy-editing, and layout, all students will take an active role in the writing and production of the campus newspaper. Courses must be taken in sequence. 1 Credit(s).

ENG 141, 142 to 441, 442 - Creative Arts Practicum

Credit Hour(s): 1
This course introduces and develops techniques for representing the arts in a campus community by working on the school literary/art magazine, running coffeehouses, and promoting other creative events. In addition to regular instruction in evaluating and editing creative writing, the visual arts, and contemporary music, and in using graphic arts design software, students will take an active role in putting together the College literary/art magazine and organizing and running the coffeehouses on campus. Courses must be taken in sequence. 1 Credit(s).

ENG 200 - Introduction to Literary Studies

Credit Hour(s): 3
An introduction to literary genres; common literary terms; literary periods; and reading, research, and writing about literature. Individual sections can, but are not required to, be built around specific themes. 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement.
If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher and declared English as a major or minor, or permission of the instructor.
Course Session Cycle: FASP

ENG 201 - World Literature I
ENG 202 - World Literature II

Credit Hour(s): 3
A survey of Western and non-Western classics since the Renaissance. Works studied (in translation) include writings from the European tradition as well as from India, China, Japan, Africa, and other non-Western cultures. (Substantial writing component required.) 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement.
If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA

ENG 203 - British Literature I

Credit Hour(s): 3
A study of the literary heritage of the British Isles from the Middle Ages to 1800. Writers often studied include Chaucer, Shakespeare, Donne, Milton, Swift, and Pope. (Substantial writing component required.) 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement.
If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA

ENG 204 - British Literature II

Credit Hour(s): 3
A study of the literary heritage of the British Isles from 1800 to the present. Writers often studied include Blake, Wordsworth, the Brontes, Austen, the Brownings, Joyce, Yeats, and T.S. Eliot. (Substantial writing component required.) 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement.
If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SP

ENG 205 - American Literature I
Credit Hour(s): 3
A study of the emergence and maturation of the literature of the United States, tracing this tradition from its beginnings through colonial times and the Civil War period. Writers often studied include Bradstreet, Franklin, Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, Whitman, Twain, and Dickinson. (Substantial writing component required.) 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement. If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA

ENG 206 - American Literature II

Credit Hour(s): 3
A study of the literature of the United States from the late 19th century and the period of Realism and Naturalism through Modernism to the present. Writers often studied include James, Crane, Dreiser, Fitzgerald, Hemingway, O'Neill, Faulkner, and Ellison. (Substantial writing component required.) 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement. If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SP

ENG 207 - Selected Topics

Credit Hour(s): 3
A study of selected literary works that explore significant cultural or social issues or major themes as they have been depicted or reflected in literature. 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement. If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.

ENG 209 - African American Literature

Credit Hour(s): 3
A study of selected African American literary works that explore significant cultural and social issues and major themes as they have been depicted or reflected within the scope of African American writings. The course explores important themes and motifs inherent in African American literature and how those themes are relevant to current issues. Writers discussed include Frederick Douglass, Booker T. Washington, James Weldon Johnson, Langston Hughes, Richard Wright, Maya Angelou, Lucille Clifton, Gwendolyn Brooks, Toni Morrison, Alice Walker, Amiri Baraka, and others. 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement. If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: ODD
ENG 210 - World Folktales and Literature

Credit Hour(s): 3
This course examines the literary, cultural and social significance of folktales and their influence on fiction, poetry, film, drama, and picture books. Common themes and images in folktales that link different cultures within Appalachia, America and the world are studied. Topics may include animal tales; quest stories; tricksters, rogues, and tall tale heroes; magical, malicious, and monstrous encounters; Beauty and the Beast and other transformations; strong women in fairy tales and literature; and humorous and satiric tales from the Middle Ages to the present. 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement. If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.

ENG 211 - Literature and the Environment

Credit Hour(s): 3
This course explores the vital relationship between literature and the environment, asking how the land has been represented and how changing interpretations of the land have influenced attitudes toward nonhuman nature. The course focuses on writers such as Edward Abbey, Wendell Berry, Annie Dillard, Henry David Thoreau, Denise Giardina, and Leslie Marmon Silko, among others, through a combination of lecture, discussion, and informal and formal writing. 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement. If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ENG 212 - Women in Literature

Credit Hour(s): 3
A study of selected literary works by and about women, exploring significant cultural and social issues and major themes and motifs depicted or reflected in "Women's Literature." 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement. If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ENG 213 - Literature and Film of the American Frontier

Credit Hour(s): 3
A study of the literature and film of the American West in the nineteenth and twentieth centuries with a particular emphasis on the Western and the Anti-western novel, as well as Western and revisionist film. The course examines the shifting concept of frontier consciousness that pervades the American cultural imagination. Texts represent the varying perspectives of Native Americans, slaves, immigrants, and early frontier settlers. Topics include regeneration through violence, masculinity, national identity, memory, landscape and land use, among others. 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement.
If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. Course sometimes taught as an E-Term course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher.

**Course Session Cycle:** ET

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**ENG 214 - Harry Potter and the Hero Myth**

**Credit Hour(s):** 3  
A study of the Harry Potter saga, focusing on the tradition of fantasy in literature in English and the hero myth in Western culture. Students should be familiar with the first six Harry Potter novels prior to the start of the course, and during the course students will read the last book in the series as well as works that represent Rowling's antecedents, influences, and contemporaries. 3 Credit(s).

This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher.

**Course Session Cycle:** FA  
**Course Yearly Cycle:** ODD

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**ENG 215 - Appalachian Literature**

**Credit Hour(s):** 3  
A study of the literary and cultural traditions of the southern Appalachian region, focusing on regional identity, cultural diversity, and environmental issues. With some background on eighteenth- and nineteenth-century traditions and folklore, the course emphasizes twentieth-century authors such as James Still, Harriet Arnow, Lee Smith, Denise Giardina, George Ella Lyon, Marilou Awiakta, Richard Chase, and Frank X Walker. 3 Credit(s).

This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher.

**Course Session Cycle:** FA  
**Course Yearly Cycle:** ODD

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**ENG 218 - Introduction to Creative Writing**

**Credit Hour(s):** 3  
This course provides the opportunity for the student to develop a fundamental knowledge of the craft of writing creatively. Emphasis in fiction is on character development, plot, point of view, dialogue, setting, pacing, and voice. Emphasis in poetry includes voice, pacing, meter, and form. Revision, work-shopping, and critical reading of both professional and student writing are central to the course. 3 Credit(s).

**Prerequisite(s):** ENG 102 with a grade of "C" or higher, or co-requisite: ENG 102.

**Course Session Cycle:** SP

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**ENG 221 - Introduction to Film**

**Credit Hour(s):** 3  
An introductory survey of film history, theory, and technique. The course teaches students to understand and appreciate
film more fully. In the process, they assess the impact of the rapid emergence and development of movies in modern culture. 3 Credit(s).
Prerequisite(s): ENG 102 with a grade of "C" or higher.

ENG 222 - Introduction to Popular Culture

Credit Hour(s): 3
An introductory survey of popular culture, especially in American society, including musical, political, racial, and technological subcultures as represented in the media both current and past. This course will provide students an opportunity to examine their own material cultures by using critical thinking to understand the production and underlying theories behind the formation of these cultures. 3 Credit(s).
Prerequisite(s): ENG 102 with a grade of "C" or higher.

ENG 251, 252, 351 or 352 - English Practicum

Credit Hour(s): 1
Designed to allow the student to gain firsthand experience in practical application of coursework through a project approved by the School Dean. 1 Credit(s). 45 Service Hour(s).
Course Session Cycle: FASP

ENG 301 - Literature for Children and Adolescents

Credit Hour(s): 3
Introduces students to the wide range of literature appropriate for children and teenagers and explores ways of using some of this literature to develop deep interests and solid habits in reading. The course emphasizes modes of storytelling and connections between texts and interpretive reading and dramatic performance. Besides introducing elements of literary analysis, it analyzes the place of controversial or morally challenging texts for young people. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. Three hours of ENG 200-ENG 214.
Course Session Cycle: FA

ENG 310 - Media Law and Ethics

Credit Hour(s): 3
Survey of general principles of legal and ethical issues that arise in the mass media. Legal issues include libel, intellectual property, obscenity, censorship, and access to public records and meetings. Ethical issues include fabrication, plagiarism, and privacy. The course methodology involves the student's learning general principles of media law and ethics and applying those principles to cases. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for the course to count toward the six credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SP
Course Yearly Cycle: ODD

ENG 311 - News Writing and Editing
Credit Hour(s): 3
Principles and techniques of information gathering, reporting, and copy-editing. Extensive practice in writing and editing news stories and releases for various print media. Study of the basic elements of journalistic writing, including leads, organization, and style, as tools to achieve accuracy and clarity. Prior publication experience is recommended. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ENG 312 - Feature Writing and Production

Credit Hour(s): 3
Principles and techniques of feature writing and publication production. Extensive practice in writing and designing feature stories for various print media. Study of the basic elements of publication production, including headline writing and design, proofreading, page makeup, graphic design, and printing processes. 3 Credit(s).
Prerequisite(s): ENG 102 with a grade of "C" or higher.

ENG 315 - Media Management

Credit Hour(s): 3
The course involves practical and theoretical study of issues such as communications law and ethics, staff motivation, media processes, and production quality and provides the student the opportunity to undertake an independent research project focusing on a topic in publication, communications, or broadcast management. The student must be in a leadership position on a campus publication or broadcast facility and have permission of instructor to enroll. Independent research. 3 Credit(s).

ENG 319 - Advanced Prose Writing

Credit Hour(s): 3
An opportunity for the student to develop abilities in writing fiction and creative nonfiction under supervision and in workshop situations. Emphasis is on the craft of writing, that is, creative revision toward a product with depth and texture. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status. ENG 218 with exceptions only in rare situations.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ENG 320 - Advanced Poetry Writing

Credit Hour(s): 3
An opportunity for the student to develop abilities in writing poetry under supervision and in workshop situations. Emphasis is on the craft of writing, that is, creative revision toward a product with depth and texture. 3 Credit(s).
Prerequisite(s): ENG 218, with exceptions only in rare situations.
Course Session Cycle: SP
Course Yearly Cycle: ODD
ENG 325 - The Novel

Credit Hour(s): 3
An examination of the novel from its origins in the 17th and 18th centuries through the postmodern period, focusing on narrative adaptations through major literary periods and primary novelistic forms. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status. Three hours of ENG 200-ENG 215.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ENG 328 - Seminar: Selected Literary Topics

Credit Hour(s): 3
An intensive study of a particular literary theme, genre, or period. The topic under consideration varies from semester to semester according to current assessments of the needs and interests of advanced students. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status. Six hours of 200-level or higher literature.

ENG 336 - Linguistics

Credit Hour(s): 3
An introduction to the formal study of language, with attention to the historical development of English and contemporary varieties of American English. The course includes a comparative study of traditional, structural, and transformational grammars. Topics include phonetics, phonology, morphology, syntax, semantics, psycholinguistics, and sociolinguistics. 3 Credit(s).
Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status.
Course Session Cycle: SP

ENG 338 - Rhetoric

Credit Hour(s): 3
A study of the art of written discourse, with special emphasis on principles of advanced composition. The course provides practice in varied techniques of composing and evaluating writing and surveys rhetorical theory from Aristotle to contemporary rhetoric. Topics include speaking/writing relationships; rhetorical contexts; theories of invention and the composing process (including composing at the word processor); aims, modes, and forms of discourse; and questions of style, readability, and coherence. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status.
Course Session Cycle: FA

ENG 345 - American Literature 1815-1865

Credit Hour(s): 3
A study of American literature during the half-century when it first reached artistic maturity. The course traces the
growth and development of American literary Romanticism, focusing on such authors as Irving, Cooper, Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status. Three hours of ENG 200-ENG 215.

Course Session Cycle: FA
Course Yearly Cycle: ODD

ENG 346 - American Literature 1865-1940

Credit Hour(s): 3

A study of the period dominated by American literary Realism, its beginnings as a reaction against Romanticism, its sustained development in the decades before and after 1900, and its transformation between the two world wars. The course focuses on such authors as Twain, Howells, James, Crane, Dreiser, Robinson, Frost, Fitzgerald, Hemingway, Faulkner, O'Neil, and Steinbeck. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status. Three hours of ENG 200-ENG 215.

Course Session Cycle: SP
Course Yearly Cycle: ODD

ENG 361 - British Literature 1660-1798

Credit Hour(s): 3

A study of the Restoration and eighteenth-century British literature. Figures studied include authors such as Milton, Congreve, Swift, Addison, Steele, Pope, Johnson, and Blake. 3 Credit(s).

This course is designated Writing Intensive; a final grade of "C" or higher is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher. Three hours of ENG 200-ENG 215.

Course Session Cycle: SP
Course Yearly Cycle: ODD

ENG 362 - British Literature 1798-1890

Credit Hour(s): 3

A study of British literature from Romanticism through the Victorian period. Figures studied include authors such as Wordsworth, Coleridge, Keats, Dickens, the Brontes, Tennyson, Browning, Arnold, and Hardy. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status. Three hours of ENG 200-ENG 215.

Course Session Cycle: FA
Course Yearly Cycle: ODD

ENG 365 - Shakespeare

Credit Hour(s): 3

A close study of eight to ten plays including these types: tragedy, comedy, and history. Through the plays the student should gain some appreciation of the Elizabethan world-view and the nature of comedy and tragedy. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher. Three hours of ENG 200-ENG 215.

**Course Session Cycle:** FA

**Course Yearly Cycle:** EVEN

**ENG 398 - Junior Seminar**

**Credit Hour(s):** 1

This course draws upon the students' prior practical and theoretical experience while emphasizing their expectations and objectives for professional development. Students will examine how their studies in the English discipline have shaped their identities as individuals and, thus, what career paths might serve as strong matches for them. The course combines a seminar approach with independent research and writing, involving both primary and secondary sources. The course will culminate in a proposal for a thesis project. 1 Credit(s).

This course is designated Writing Intensive and Speaking Intensive; a grade of "C" or higher in this course is required for the course to count toward the Writing Intensive and Speaking Intensive graduation requirements for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on writing and speaking assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher; junior or senior status.

**Course Session Cycle:** SP

**ENG 401 - Literary Criticism**

**Credit Hour(s):** 3

An introduction to the major critical approaches to literature, with primary emphasis on criticism in the 20th century. Students will explore the most commonly used methods of literary analysis and research by applying them to various literary texts. 3 Credit(s).

This course is designated Writing Intensive and Speaking Intensive; a grade of "C" or higher in this course is required for the course to count toward the Writing Intensive and Speaking Intensive graduation requirements for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on writing and speaking assignments required by the course.

**Prerequisite(s):** Six hours of 200-level or higher literature.

**Course Session Cycle:** FA

**Course Yearly Cycle:** EVEN

**ENG 421 - Medieval Literature**

**Credit Hour(s):** 3

A study of the major themes, concerns, and values of the literature of the Middle Ages. Special emphasis is placed on the literary achievements of Dante and Chaucer. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher; junior or senior status. Three hours of ENG 200-ENG 215: junior or senior status.

**Course Session Cycle:** SP

**Course Yearly Cycle:** ODD

**ENG 425 - Seminar: Selected Authors**
Credit Hour(s): 3
A study of the fictional world(s) created by one or two authors other than Shakespeare. The course will examine from several critical perspectives the qualities that have caused certain authors to be judged superior. Students will be asked to develop their own points of view in making such judgments. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status. Six hours of 200-level or higher literature.

ENG 428 - Contemporary Literature and Film

Credit Hour(s): 3
A study of contemporary writers' and filmmakers' images of life in the Western world today. The course examines how unusual forms and techniques are often used to provide insight into an era in which tradition, the individual, and basic human rights are all challenged by technology and a rapid rate of change. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. Three hours of ENG 200-ENG 215.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ENG 433 - Small Group Communication

Credit Hour(s): 3
An investigation into the formal and informal elements of effective group communication, with emphasis on strategies for attaining common goals while enhancing the independence of individual members. 3 Credit(s).
This course is designated by Ferrum College faculty to meet the entire Speaking Intensive requirement; a grade of "C" or higher in this course is required for this course to be used by a student to complete the Speaking Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the speaking assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ENG 461 - Professional Writing

Credit Hour(s): 3
A course designed to reinforce and extend undergraduate writing competency and to advance students to the composition proficiency demanded in business and other professions and in graduate programs. Students study and write expository and persuasive forms such as letters, memoranda, reports, and proposals. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher; junior or senior status.
Course Session Cycle: FA
Course Yearly Cycle: ODD

ENG 498 - Senior Seminar
This course draws upon students' prior experience in ENG 398: Junior Seminar, emphasizing further their expectations and objectives for professional development. The course combines a seminar approach with independent research and writing, involving both primary and secondary sources. The course will culminate in a thesis project and a public presentation of this project. 2 Credit(s).

This course is designated Writing Intensive and Speaking Intensive; a grade of "C" or higher in this course is required for the course to count toward the Writing Intensive and Speaking Intensive graduation requirements for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on writing and speaking assignments required by the course.

**Prerequisite(s):** ENG 398 and senior standing.

**Course Session Cycle:** FA

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**ENG 499 - Internship**

Credit Hour(s): 3, 4, 5 or 6

Internships are normally spent off campus in work situations or voluntary service activities. They are carefully supervised and are designed to provide practical experience in areas of possible career interests. *This course has an additional fee. 3, 4, 5 or 6 Credit(s). One credit for every 100 hours worked. Service Hour(s).*

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**Environmental Planning and Development**

**EPD 201 - Introduction to Environmental Planning and Development I**

Credit Hour(s): 3

An introduction to environmental planning and development, with a particular focus on social and political issues pertaining to sustainable development. *3 Credit(s).*

**Course Session Cycle:** SP

**Course Yearly Cycle:** EVEN

**EPD 202 - Introduction to Environmental Planning and Development II**

Credit Hour(s): 4

A continuation of an introduction to Environmental Planning and Development, with a particular focus on economic and environmental issues pertaining to sustainable development. Topics will be covered both in lecture and in a participatory three-hour lab. *This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).*

Meets 4 credits toward Natural Science Requirement.

**Course Session Cycle:** SP

**Course Yearly Cycle:** ODD

**EPD 392 - Eco-Social Justice: Issues and Applications**

Credit Hour(s): 3

In this course students will examine social inequalities related to environmental issues and explore social movements and paths for individual and community action to address them. *3 Credit(s).*

**Prerequisite(s):** Sophomore standing.

**EPD 410 - Advanced Environmental Planning and Development**

Credit Hour(s): 3

This course integrates the specific skills and knowledge learned in the Environmental Studies program with an
emphasis on applying, synthesizing and evaluating economic, environmental, political and social aspects of the field. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: ODD

Environmental Science

ESC 102 - Introduction to Environmental Science

Credit Hour(s): 4
An interdisciplinary course designed to introduce students to the problems associated with humans and their relationship to the environment. Environmental science enables us to understand how the world is operated by physical, chemical, and biological processes and how mankind, technology, and human social processes affect the natural world. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: FASP

ESC 103 - Applied Environmental Monitoring

Credit Hour(s): 4
This course is an overview of the use of methods, tools and techniques used in environmental monitoring. Modular lecture and lab content focuses on five core areas of environmental assessment: hydrology, agriculture, biodiversity, climate change, and energy systems. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): ESC 102, BIO 110 OR BIO 111, AGS 110, or any 4-credit CHM course.
Course Session Cycle: SP

ESC 180, 181 to 480, 481 - Practicum

Credit Hour(s): 1
Allows the student to gain firsthand experience and knowledge of procedures and practices common to the field by providing service to program, college, business, and/or the community. Pass/Fail. 1 Credit(s). 45 Service Hour(s).
Course Session Cycle: FASP

ESC 190, 290, 390 or 490 - Selected Topics

Credit Hour(s): 1-4
A course specifically designed for agriculture, biology, and environmental science majors to be able to design an independent study class in a specialized field that is not normally in the schedule. 1-4 Credit(s).

ESC 195, 196 to 495, 496 - Independent Research

Credit Hour(s): 1-3
Under faculty supervision, students will design and carry out a vigorous scientific study of a specific problem in environmental science. Written and oral presentation of the research are required. 1-3 Credit(s).
Prerequisite(s): Coursework and skills determined by individual instructors.
Course Session Cycle: FASP

ESC 202 - Quantitative Environmental Methods and Statistics
ESC 203 - Fundamentals of Ecology

Credit Hour(s): 4
An introductory study of the interrelationship of organisms with the abiotic and biotic components of their environment. Includes a basic introduction to population dynamics. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): Sophomore Standing.
Course Session Cycle: FA

ESC 205 - Tropical and Marine Ecology

Credit Hour(s): 4
An introduction to the geology, taxonomy, and ecology of tropical ecosystems. Emphasis is divided between the study of a variety of tropical terrestrial ecosystems and marine organisms in coral reefs and eel grass communities. This course requires a multiple week field trip in the Caribbean or Latin America. 4 Credit(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: SP

ESC 206 - Community Ecology of the Southeast

Credit Hour(s): 4
Designed to study the vegetation relationships of selected communities in the southeastern United States and to survey the associated vertebrate populations. This course requires a two-week field trip through the southeast. 4 Credit(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: ET

ESC 207 - South African Ecology and Culture

Credit Hour(s): 4
This E-Term course provides a powerful cross-cultural experience and introduces students to the culture and ecology of Southern Africa and to planning that integrates environmental management with community development. Participants will spend one week on campus and two weeks in South Africa, based at the Southern African Wildlife College near Hoedspruit. Activities include game walks and drives, environmental assessments (animal, vegetation, and aquatic life), visits to local villages and schools, an archaeological site, scenic tours and a camping trip to Kruger National Park. 4 Credit(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: ET

ESC 208 - Ireland's Natural History: Interaction of Nature and Culture
Credit Hour(s): 4
This E-Term course is designed to study the unique natural history of Ireland and the effects on the Irish people and their culture. This course requires a two week field component traveling through the countryside of Northern Ireland, United Kingdom and the Republic of Ireland. 4 Credit(s). 5 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: ET

ESC 209 - Physical Geology and Hydrology

Credit Hour(s): 4
An introductory course in geology emphasizing local mineral, rock, geological, and plate tectonic structures. The hydrological cycle and hydrological processes are also described. Field trips, including a Saturday field trip, provide hands-on experience in this area. This course has an additional fee. 4 Credit(s). 5 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.

ESC 302 - Conservation Biology

Credit Hour(s): 3
This course deals with principles of maintaining biological diversity in managed landscapes. Conservation biology investigates human impacts on biological diversity and loss and develops practical legislative and policy approaches to preventing extinction of species. Conservation biology has two underlying themes – seeking new approaches to sustainability and maintenance of biological diversity. This course will explore the theories and methods related to these themes; students will use a particular biodiversity “hotspot” to apply concepts related to biology, ecology, policy, and law to design an effective management plan for this hotspot. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. ESC 203.
Course Session Cycle: SP

ESC 310 - Natural Resource Policy and Economics

Credit Hour(s): 3
Introduction to natural resource policies and economics, including legal frameworks, impact analyses, and valuation methodologies. 3 Credit(s).
Prerequisite(s): ESC 203.
Course Session Cycle: SP
Course Yearly Cycle: ODD

ESC 313 - Natural Resource Management

Credit Hour(s): 3
A survey of those naturally occurring resources which are useful and necessary to man. The limits of these resources are examined, along with consideration of reasonable expectation of exhaustion of retrievable resources. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ESC 321 - Aquatic Ecology

Credit Hour(s): 4
A survey of the structure and function of aquatic ecosystems with emphasis on the geomorphology, physics, chemistry,
and biology of inland freshwater systems. Required laboratory and field trips emphasize techniques of sampling, analysis, and presentation. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ESC 405 - Fisheries and Wildlife Ecology and Management

Credit Hour(s): 4
This course examines the ecology and biology of fish and wildlife species as a basis for teaching specific techniques related to the study and management of fish and wildlife populations and habitats. Topics covered include habitat evaluation and management, capture and handling, age and sex determination, population estimation, diseases and parasites, stocking and hunting management, endangered species management and protected areas, and management of the human users of the wildlife. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

ESC 413 - Forest Science and Management

Credit Hour(s): 4
A survey of the basic principles of managing forestlands. Emphasis is placed on ecology, silviculture and management options for private landowners. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: FA
Course Yearly Cycle: ODD

ESC 421 - Pollution Science

Credit Hour(s): 4
The logical starting point for individuals interested in pollution control. The student will be introduced to the major perturbations causing air, soil, and water pollution. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): CHM 103 or higher.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

ESC 424 - Environmental Toxicology

Credit Hour(s): 3
Concepts from toxicology and ecotoxicology are introduced. The first half of the course will address fundamental concepts of toxicology (effects of poisons on individual organisms), experimental toxicology, and chemical hygiene. The second half of the course will introduce ecotoxicology (effects of poisons on ecosystem structure and function) and monitoring and assessment of ecotoxicological conditions. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: ODD

Ferrum

FER 105 - Introduction to College Living and Learning
Credit Hour(s): 2
An academic seminar, usually two weeks in the summer, in which incoming freshmen can earn elective college credit. This intensive, faculty taught course focuses on academic growth through a choice of various disciplines, giving students the opportunity to better understand the expectations and possibilities of college. This course has an additional fee. 2 Credit(s).

FER 109 - Freshman Scholars

Credit Hour(s): 3
Students working in multiple disciplines explore issues related to the pursuit of scholarly work at the undergraduate level while partnering with faculty Mentors to work on a specific project of merit. 3 Credit(s). 52 hours of contact over two weeks. Service Hour(s).

FER 120 - Thinking and Learning in College

Credit Hour(s): 1
This course offers students entering Ferrum College the opportunity for developing an understanding of human cognitive function in order to learn how to learn in the College environment and beyond. Students will learn about and apply strategies for understanding, retaining, and applying information. 1 Credit(s). 2 Contact Hour(s).
Prerequisite(s): Entering freshmen.
Course Session Cycle: FA

FER 131 - Mentoring Development

Credit Hour(s): 1
This course will provide students with the necessary skills to participate as mentors in GWS 101 and other campus mentoring programs. Leadership, mentoring, and attending skills will be highlighted. This course is taught during the second half of the spring semester twice a week, with one section in fall as necessary. 1 Credit(s). 2 Contact Hour(s).
Course Session Cycle: SP

FER 199 - Introduction to Service Learning

Credit Hour(s): 3
Opportunity for service-learning experience in a public/human service organization or educational setting. Through the interaction of experience, readings, and reflection, the student learns to apply knowledge and skills in the community, exercise critical thinking, develop self-learning and helping skills, develop societal knowledge and sensitivity, and enhance personal development. 3 Credit(s).

FER 200 - Career Exploration

Credit Hour(s): 1
This course will assist students in the career decision-making process through the integration of self-knowledge and research in the world of work and professional school. Course may be taken consecutively with FER 202. Seven weeks. 1 Credit(s). 7 week experience Service Hour(s).

FER 202 - Career Planning

Credit Hour(s): 1
This course teaches students effective job-seeking skills such as resume building and preparation, job search strategies, and interview skills. Seven weeks. 1 Credit(s). 7 week experience Service Hour(s).
FER 232, 332 or 432 - Mentoring Practicum (for GWS 101)

Credit Hour(s): 1
A leadership experience for students above the freshman level. This course requires participation as a mentor in the GWS 101 as well as out-of-class interaction with freshman students. 1 Credit(s). 2 Contact Hour(s).
Prerequisite(s): FER 131 and GPA of 2.5 or better.
Course Session Cycle: FASP

FER 233, 234 to 433, 434 - Mentoring Experience

Credit Hour(s): 1
A leadership experience for students above the freshman level working as mentors with freshmen in specified student organizations. This course requires membership in the organization and regular meetings with organization sponsors. Pass/Fail. 1 Credit(s). 2 Contact Hour(s).
Prerequisite(s): Sophomore Standing or higher. GPA 2.0 or better.

FER 250 - Introduction to Online Learning

Credit Hour(s): 3
This course is designed for all new students in the Ferrum College On-line Degree Completion Program. Students will be introduced to the basic requirements of on-line learning and how they will learn and interact with both professors and students in the on-line learning environment. Students will be introduced to library resources, how to access and analyze information efficiently and effectively, as well as learn how to post and reply to discussion questions and submit assignments for review. Students will understand the definition of plagiarism and how to use APA format to document citations in their work. 3 Credit(s).
Prerequisite(s): Acceptance to Ferrum College On-line Program.

Ferrum Gateway Seminar

GWS 101 - Ferrum Gateway Seminar (GWS)

Credit Hour(s): 1
The Ferrum Gateway Seminar is designed to assist new students in making a successful transition to Ferrum College. This course helps students begin their college experience with an integrating, grounding academic experience centered on a topic of inquiry which is systematically explored. Throughout this academic inquiry, this course is intentionally designed to build foundational academic skills, encourage social connections between students and faculty, and help students achieve familiarity with campus resources and college policies. The Ferrum Gateway Seminar is required during the first semester for all full-time freshmen. If you are a transfer student with 24 or more credits (excluding dual enrollment credits earned), you may decide to opt out of taking the Gateway Seminar. The course meets twice weekly for the first 7 weeks of the semester. 1 Credit(s). Course will meet for the first half of the semester only, two contact hours a week. Contact Hour(s).
Course Session Cycle: FASP

Language

LAN 101 - Foreign Language

Credit Hour(s): 3
Up to two years of a foreign language other than French, Russian, or Spanish may be taken on independent study, provided the student has a legitimate need and a qualified instructor agrees to supervise the work. The Dean of the
School of Arts and Humanities will determine on a case-by-case basis whether or not these provisions have been met. 3 Credit(s).

**LAN 102 - Foreign Language**

Credit Hour(s): 3
Up to two years of a foreign language other than French, Russian, or Spanish may be taken on independent study, provided the student has a legitimate need and a qualified instructor agrees to supervise the work. The Dean of the School of Arts and Humanities will determine on a case-by-case basis whether or not these provisions have been met. 3 Credit(s).

**LAN 201 - Foreign Language**

Credit Hour(s): 3
Up to two years of a foreign language other than French, Russian, or Spanish may be taken on independent study, provided the student has a legitimate need and a qualified instructor agrees to supervise the work. The Dean of the School of Arts and Humanities will determine on a case-by-case basis whether or not these provisions have been met. 3 Credit(s).

**LAN 202 - Foreign Language**

Credit Hour(s): 3
Up to two years of a foreign language other than French, Russian, or Spanish may be taken on independent study, provided the student has a legitimate need and a qualified instructor agrees to supervise the work. The Dean of the School of Arts and Humanities will determine on a case-by-case basis whether or not these provisions have been met. 3 Credit(s).

**French**

**FRE 101 - Elementary French**

Credit Hour(s): 3
A beginning course in the French language, with extensive practice in listening, speaking, reading, and writing and an introduction to the culture of France. 3 Credit(s).
Course Session Cycle: FA

**FRE 102 - Elementary French**

Credit Hour(s): 3
A beginning course in the French language, with extensive practice in listening, speaking, reading, and writing and an introduction to the culture of France. 3 Credit(s).
Course Session Cycle: SP

**FRE 201 - Intermediate French**

Credit Hour(s): 3
An intermediate course in the French language, with extensive practice in communication and a study of the culture of French-speaking countries. 3 Credit(s).
Course Session Cycle: FA
FRE 202 - Intermediate French

Credit Hour(s): 3
An intermediate course in the French language, with extensive practice in communication and a study of the culture of French-speaking countries. 3 Credit(s).
Course Session Cycle: SP

Geography

GEO 220 - Physical Geography

Credit Hour(s): 4
Provides students with a broad understanding of the earth's physical environment. The distribution and interrelationships of the earth's weather climates, soil, vegetation, and land forms are studied. Principles of cartography, Geographic Information Systems (GIS), and remote sensing are introduced. This course has an additional fee. 4 Credit(s). 5 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: SP

GEO 221 - Geographic Information Systems

Credit Hour(s): 4
Methods of Analysis provided by geographic information systems (GIS). Operations on map information including map overlay, aggregation/disaggregation, and other spatial and attribute procedures. Exposure to raster and vector software and Global Positioning System tools. This course has an additional fee. 4 Credit(s). 5 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Course Session Cycle: FA

Health and Human Performance

HHP 100 - Responding to Emergencies

Credit Hour(s): 1
This course is designed to educate individuals about their environment and personal habits in order to reduce their risk of injury and illness. The course will provide participants with the ability to recognize emergencies and the knowledge and skills necessary to help sustain life, minimize pain and the consequences of injury or sudden illness until more advanced medical help is available. This course has an additional fee. 1 Credit(s).
Course Session Cycle: FASP

HHP 130 - Individual Sports

Credit Hour(s): 1
An introduction to the rules and techniques of individual sports including tennis, golf and archery. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements.

HHP 136 - Introduction to Muscular Fitness
Credit Hour(s): 1
This course is designed to instruct students in anaerobic activities including; free weights, machines and resistance tubes and bands. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements.

HHP 144 - Team Sports

Credit Hour(s): 1
An introduction to skills, playing strategy, rules and officiating mechanics of team sports such as volleyball, soccer, basketball, softball, baseball and football. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements.

HHP 145 - Rhythmics, Movement, and Games

Credit Hour(s): 1
An introduction to a variety of rhythmic, movement, and game activities that are developmentally appropriate for children, inclusive of those with special needs, and fun for adults. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements.

HHP 149, 249, 349 or 449 - Selected Topics in Physical Education

Credit Hour(s): 1-3
This course is designed to provide students opportunities to study specialized topics and timely issues in physical education through the parameters of a class. The topics courses typically provide elective credit in the Physical Education Program, and may be repeated if the topics are different. Courses taught at the 149 level that exposed students to the basic knowledge and vocabulary of the discipline. Courses taught at the 249 level are those in which students are acquiring a knowledge base through the direction of the faculty member. Courses taught at the 349 level are those in which students will begin to apply knowledge and skills from other courses through the completion of instructor-led and independent projects. Courses taught at the 449 level require autonomous completion of tasks based on prior knowledge and skills demonstrating substantial growth in the field. 1-3 Credit(s).
Prerequisite(s): Will be stipulated in each topics course description.

HHP 153 - Cardiorespiratory Activities

Credit Hour(s): 1
Combines sustained endurance exercise. Exercises are designed to condition the heart and lungs, tone muscles, and promote flexibility. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements.

HHP 200 - Health and Wellness Concepts

Credit Hour(s): 3
An introduction to the six dimensions of wellness: physical, psychological, spiritual, social, intellectual and environmental. The course content will focus on the health and wellness benefits of an active lifestyle and on healthy decision making. 3 Credit(s).
Meets Activity Liberal Arts Requirements.
Course Session Cycle: FASP

HHP 206 - Introduction to Athletic Injuries
Credit Hour(s): 3
An introduction to the prevention, care, and evaluation of athletic injuries. Designed to teach a basic understanding of how to manage injuries on and off the field, with a look at special consideration of special injuries that are unique to athletics. This course has an additional fee. 3 Credit(s).
Course Session Cycle: FASP

HHP 252 - Foundations of Health and Human Performance Professions

Credit Hour(s): 3
An introductory course to the fields of physical education, including the allied fields of health, sports medicine, and exercise science. Professional opportunities will be explored, basic concepts will be addressed, and the history and philosophy of each allied field will be examined. 3 Credit(s).
Course Session Cycle: FA

HHP 320 - Health and Physical Education for Children (Pre-K-6)

Credit Hour(s): 3
A systematic approach to planning, organizing, teaching, and evaluating physical education for children. Emphasis will be placed on developmentally appropriate content standards/competencies, assessment methods and techniques, adaptive physical education, management, and use of technology. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: EVEN

HHP 321 - The Physical Education Experience for Adolescents

Credit Hour(s): 3
A systematic approach to planning, teaching, and evaluating physical education in middle and secondary schools. Emphasis will be placed on national content standards/competencies, evaluative methods and techniques, adaptive physical education, utilization of technology, and promotion of personal fitness/wellness. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: ODD

HHP 330 - Coaching the Athlete

Credit Hour(s): 3
An examination of the basic elements needed for a successful sport program. Emphasis on logistics and preparation. 3 Credit(s).
Course Session Cycle: FA

HHP 332 - Strength and Conditioning

Credit Hour(s): 3
This course is designed to provide students with the knowledge, skills, and abilities (KSA) to design and implement resistance training programs for a variety of populations. Course content will cover the scientific and practical basis for resistance training to reduce injuries, improve health, and optimize performance. Students will actively participate in and demonstrate knowledge of a range of resistance exercise techniques, as well as pre-participation screening. This course will help prepare those students wishing to take the National Strength and Conditioning Association's Certified Strength and Conditioning (CSCS) Exam. 3 Credit(s).
Prerequisite(s): BIO 254 and BIO 255. HHP 340 and HHP 341 recommended.
Course Session Cycle: FA
HHP 338 - Motor Learning

Credit Hour(s): 3
Principles and concepts of motor skill acquisition and motor performance. 3 Credit(s).
Course Session Cycle: SP

HHP 340 - Kinesiology: Scientific Basis of Human Movement

Credit Hour(s): 3
Study of the anatomical and mechanical fundamentals of human movement. Emphasis on application of the fundamentals through analysis, assessment, and ultimately improvement of human performance. 3 Credit(s).
Prerequisite(s): BIO 254.
Course Session Cycle: SP

HHP 341 - Applied Biomechanics

Credit Hour(s): 1
Biomechanics is the companion clinical course for HHP 340 - Kinesiology: Scientific Basis of Human Movement. The main objective of the course is to examine basic applied biomechanics principles that expand on basic concepts covered in HHP 340 and relate physics concepts to exercise and human movement. Students will be expected to engage in physical activity in this course, as well as test others in order to complete clinical reports throughout the semester. 1 Credit(s).
Corequisite(s): HHP 340.
Course Session Cycle: SP

HHP 345 - Sport Psychology

Credit Hour(s): 3
Provides students with an overview of concepts and principles essential to understanding the behavioral aspects of sport and exercise. Emphasis is given to the conceptual frameworks and the applied aspects of performing enhancement, mental skills, exercise behavior and motivation, social factors and psychology of injury. Applications are made to the athlete/participant, exercise leader, and sport coach. 3 Credit(s).
Prerequisite(s): PSY 201 or PSY 211.
Course Session Cycle: SP

HHP 348 - Sports Nutrition

Credit Hour(s): 3
Examines the nutritional needs and requirements of athletes. This course will integrate nutrient metabolism, nutrition science, and exercise physiology as it applies to sport performance, exercise and health. 3 Credit(s).
Prerequisite(s): BIO 254.
Course Session Cycle: SP

HHP 355 - Physiology of Exercise

Credit Hour(s): 3
Lecture and laboratory experiences in the physiological responses related to physical activities and sports training. 3 Credit(s).
Prerequisite(s): BIO 254.
Course Session Cycle: FA
HHP 357 - Applied Exercise Physiology

Credit Hour(s): 1
Applied Exercise Physiology is the clinical companion course for HHP 355 - Physiology of Exercise. The main objective of the course is to develop key skills needed for subsequent courses and to apply some of the basic concepts discussed within the course. Students will be expected to test and be tested during exercise and to complete several reports throughout the semester. 1 Credit(s).
Prerequisite(s): BIO 254 and BIO 255.
Corequisite(s): HHP 355.
Course Session Cycle: FA

HHP 361 - Exercise Assessment and Prescription

Credit Hour(s): 3
This course provides in-depth information of various concepts specifically related to exercise assessment and prescription for healthy persons. The course relies heavily on laboratory and field based measurement of cardiorespiratory fitness, pulmonary function, body composition, muscular strength and endurance. The course discusses and applies assessment results to exercise prescription. Students will work in small teams of no less than 3 or and no more than 4 persons to perform all class activities. 3 Credit(s).
Prerequisite(s): HHP 355 and HHP 357.
Course Session Cycle: FA

HHP 400 - Advanced Exercise Science

Credit Hour(s): 3
This course is designed to advance the knowledge and understanding of exercise science, including integration of exercise physiology and bioenergetics, biomechanics, motor control, as well as how they relate to the allied health professions. The course will be taken concurrently with the advanced exercise science lab to demonstrate many of the concepts and topics covered in the course. Course content will cover both basic and applied exercise science, and how these areas relate to improved health and optimal performance. This course will help prepare those students wishing to take the American College of Sports Medicine's (ACSM) certification exams. 3 Credit(s).
Prerequisite(s): HHP 340 and HHP 355.
Course Session Cycle: FA

HHP 401 - Methods for Teaching Health Education

Credit Hour(s): 3
Provides students with an understanding of teaching elementary through secondary school age children and young adults. This course provides the fundamental teaching skills needed for successful teaching in elementary, middle and high school health education. 3 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: ODD

HHP 402 - Organization and Administration of Sport

Credit Hour(s): 3
The study of administrative principles and practices applied specifically to sport, including the management of personnel, programs, and facilities. Emphasis will also be placed on sport organizations and governance in sport at the professional, collegiate, high school, and amateur levels. 3 Credit(s).
Course Session Cycle: SP
HHP 450 - (Capstone) Design and Application of Health and Human Performance Programs

Credit Hour(s): 3
This course provides the knowledge and skills necessary for assessing, interpreting, and designing health and activity programs for an apparently healthy population and those with increased risk for chronic diseases. Students will work in pairs to integrate information from many prior courses to design and implement a fitness or wellness program for each other. Completion of this course will help prepare students for ACSM and NSCA certifications exams often needed for employment. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. HHP 355 and Senior standing. HHP 400 recommended.
Course Session Cycle: SP

HHP 491 or 492 - Special Topics in Physical Education

Credit Hour(s): 1-4
This class is designed to teach advanced techniques and information regarding special topics in physical education and exercise science. 1-4 Credit(s).

HHP 499 - Internship

Credit Hour(s): 4
This course provides students the opportunity to integrate previous coursework with practical field experience. Students must meet eligibility internship requirements stated in internship manual as well as have 80% of courses completed within selected concentration area. The internship must be approved by program coordinator and be a minimum of 400 hours. This course has an additional fee. 4 Credit(s). 400 hours Service Hour(s).

History

HIS 101 - Western Civilization I

Credit Hour(s): 3
A study of the origins of western society and thought from the origin of civilization to the 17th century. 3 Credit(s).
Meets 3 credits toward History Requirement.
Course Session Cycle: FASP

HIS 102 - Western Civilization II

Credit Hour(s): 3
An examination of the major developments in western society since the 17th century and their global impact. 3 Credit(s).
Meets 3 credits toward History Requirement.
Course Session Cycle: SP

HIS 111 - World History to 1500

Credit Hour(s): 3
An overview of the history of the world from the rise of the earliest civilizations to the development of a global
economy. 3 Credit(s).
Meets 3 credits toward History Requirement.
Course Session Cycle: Fall
Course Yearly Cycle: Every

HIS 112 - World History after 1500

Credit Hour(s): 3
An overview of modern history of the world, from the rise of colonialism to the present.

3 Credit(s).
Meets 3 credits toward History Requirement.
Course Session Cycle: Spring
Course Yearly Cycle: Every

HIS 201 - American History I

Credit Hour(s): 3
A survey of the development of the United States from its colonial inception through the Civil War. 3 Credit(s).
Meets 3 credits toward History Requirement.
Course Session Cycle: FA

HIS 202 - American History II

Credit Hour(s): 3
A study of the major forces at work in American society, politics, and thought from Reconstruction through the middle decades of the 20th century. 3 Credit(s).
Meets 3 credits toward History Requirement.
Course Session Cycle: SP

HIS 220 - Introduction to Museum Studies

Credit Hour(s): 3
An introductory survey of the museum profession, its standards and techniques, combined with hands-on experiences in various phases of museum operations. 3 Credit(s).
Course Session Cycle: ET

HIS 302 - History of Sports in the US

Credit Hour(s): 3
This course charts the rise of sports and recreation in society and culture from informal folk games during the colonial era to multi-billion dollar industries in our present moment. We will pay particular attention to the connections between sports and imperialism, international politics, race, class, and gender. Through readings, films, and discussion, students will explore topics such as the rise and professionalization of "bloodsports," racial segregation and integration, nationalism during the Cold War, the implementation of Title IX, and current controversies regarding protest, doping, stadium welfare, and mascots.

3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.

HIS 303 - The American Revolution

Credit Hour(s): 3
Covers the period of American history from 1763-1789 and offers an in-depth analysis of the background and causes of the Revolution, the political and military course of the Revolution, and the origins and development of the Constitution as the culmination of the Revolutionary era. 3 Credit(s).
Prerequisite(s): ENG 102 with a grade of "C" or higher.

HIS 304 - Civil War Battlefield Tour

Credit Hour(s): 1 or 3
Students will expand their understanding of the American Civil War during a guided tour of important eastern battlefields. Discussions, lectures, and multimedia presentations during travel and in the evenings will enable students to appreciate the context in which battles took place and allow them to process the information they gather at the sites. Specially selected readings will help students maximize on-site learning. Tests will be administered daily and an analytical paper will be submitted after the tour portion of the course. Students selecting the three credit-hour option will, in addition to completing the tour and attendant coursework, complete a web-based supplemental unit including more extensive readings, tests, and essays. Students who have received prior credit for HIS 305 are not eligible for the three-hour option, although they may take the one-hour option. Students taking HIS 304 for one credit may, in contract, take HIS 305 for full credit. A travel expense fee will be charged. 1 or 3 Credit(s). 80 hours (ten days on tour) Service Hour(s).

HIS 305 - The American Civil War

Credit Hour(s): 3
A study of the American Civil War and emphasis on the political, economic, social, and cultural differences between the belligerents, the causes of the war, the conduct of the war, and the impact of personalities on the conflict, the inevitability of the result, and the war's impact on the nation then and now. 3 Credit(s).

HIS 306 - Women in Twentieth-Century America

Credit Hour(s): 3
A study of the political, social, and economic history of women in twentieth-century America that focuses on the interpretation and analysis of the central problems and themes of twentieth-century United States history from the perspective of women's history. Topics include women and work, women and reform, women and the conflict between tradition and modernity, the significance of class and race, the various types of feminism and their opponents, and contemporary "women's issues." 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SPRING
Course Yearly Cycle: EVEN
HIS 307 - American Crime: Criminalization and Punishment in the 20th Century

Credit Hour(s): 3
Representations of drugs, gangs, and violence are common place in our popular culture, from TV shows to the nightly news. But, what does exploring policing, law and order, and acts of crime in a historical context look like? This course examines this question and investigates the legal and cultural components to American crime over the course of the twentieth century. Topics include lynching, sexual deviancy, immigration, the War on Drugs, and the Prison Industrial Complex. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA

HIS 308 - African American History

Credit Hour(s): 3
A study of the political, social, and economic history of African Americans from African societies and the slave trade to the present. This course focuses on the interpretation and analysis of the central problems and themes of United States history from the perspective of African American history. Topics include slavery, trans-national black communities and cultures, the significance of gender and class, segregation, and civil rights struggles. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SP

HIS 309 - The United States 1900-1945

Credit Hour(s): 3
A study of political, economic, and social developments in the U.S. from 1900 to 1945. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: ODD

HIS 310 - The United States since 1945

Credit Hour(s): 3
A study of political, economic, and social developments in the U.S. since 1945. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: ODD

HIS 316 - Virginia History
Credit Hour(s): 3
A study of the development of Virginia since the late sixteenth century, with special emphasis on cultural foundations, politics, and social transformation. Topics will include race relations, violence, family, mobility, and political ideology. 3 Credit(s).

Course Session Cycle: SP

HIS 318 - The American West in History and Memory

Credit Hour(s): 3
Students will engage in a survey of the history of the United States west of the Mississippi from the 17th century to present during a guided tour of important mid-western and western cities, museums, and monuments, traveling to those locations by train. Specific destinations will vary by year. Significant course themes include: cultural contact and conflict, economic development, ideas and meanings of the frontier, human interaction with nature and the environment, relationships between western states and the federal government, tourism, and shifting ideas about race, class, gender, and power in the west. A travel expense fee will be charged. 3 Credit(s).

HIS 335 - Classical Antiquity Greco-Roman History

Credit Hour(s): 3
A survey of Classical Antiquity with a focus on major political, social, and intellectual developments in the history of Ancient Greece and Rome (ca. 500 BCE – 500 CE). In four separate units this course will explore Classical Greece, the Hellenistic era, the Roman Republic, and the Roman Empire. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. Prerequisite(s): ENG 102 with a grade of "C" or higher.

HIS 341 - England from Island to Empire: Early Modern British History, 1485-1775

Credit Hour(s): 3
A survey of the political, cultural, and military history of England and the British Isles from the end of the War of the Roses to the outbreak of the American Revolution (ca. 1485-1775). In three separate units the course will explore the era of the Tudors, civil wars and revolution, and the development of empire and sea power. This course is particularly well suited to provide students with background knowledge for HIS 303 and HIS 316. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. Prerequisite(s): ENG 102 with a grade of "C" or higher.

Course Session Cycle: SP
Course Yearly Cycle: EVEN

HIS 344 - The Scientific Revolution

Credit Hour(s): 3
A survey of the history of science in the West from Copernicus & Vesalius to Lavoisier. This course considers the transition from medieval, theocentric views of nature and its operation to secular and mechanistic views in the seventeenth and eighteenth centuries and the transition from natural philosophy to science.

3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.

HIS 355 - Russia Since 1917

Credit Hour(s): 3
A broad survey of the history, political system, foreign policy, economy and people of Russia and the former Soviet Union from 1917 to the present. 3 Credit(s).

HIS 357 - Russian History

Credit Hour(s): 3
Russia from the founding of the first Russian state to the revolution of 1917. The course will cover political, economic, intellectual and cultural history. 3 Credit(s).

HIS 360 - The History of Travel and Tourism

Credit Hour(s): 3
History seminar focused on reading historical sources from a variety of historical settings from travelers, explorers, and adventurers. 3 Credit(s).

Course Session Cycle: Fall
Course Yearly Cycle: ODD

HIS 371 - China

Credit Hour(s): 3
A survey of Chinese history from the origin of the Chinese state to the death of Mao. This course also includes topics on Chinese culture and geography. The principal focus of this course is on the continuity and uniqueness of Chinese civilization. 3 Credit(s).

Course Session Cycle: SP
Course Yearly Cycle: ODD

HIS 373 - India

Credit Hour(s): 3
A survey of the geography, history, and culture of India, Pakistan, Bangladesh, Sri Lanka, and the Himalayan States. The course places special emphasis on the diversity of this region and the periodic attempts at political unification. 3 Credit(s).

Course Session Cycle: SP
Course Yearly Cycle: EVEN

HIS 374 - Southeast Asia

Credit Hour(s): 3
A survey of the region currently comprising the nations of Indonesia, Malaysia, Philippines, Singapore, Vietnam, Laos, Thailand, Cambodia, and Myanmar (Burma). Major topics include Indianization, colonialism, nationalism, communism, and the modernization process. 3 Credit(s).
HIS 375 - Sub-Saharan Africa

Credit Hour(s): 3
Focuses on two themes. The first is African history and culture, including both the uniqueness of the African experience and the common inheritance it shares with the rest of mankind. The second is more politically and economically directed and emphasizes Africa's problems and prospects in the modern world. 3 Credit(s).

Course Session Cycle: SP  
Course Yearly Cycle: ODD

HIS 376 - The History of Islam

Credit Hour(s): 3
An overview of the history of Islam from the Prophet to the aftermath of decolonization. Starting with the foundational texts of the religion, moving on to the works of the Golden Age of Islam, this background will fuel students' exploration of the tumultuous twentieth century and the ongoing "long war" on terrorism and extremism following 9-11-01. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.

Course Session Cycle: Fall  
Course Yearly Cycle: Odd

HIS 378 - North Africa

Credit Hour(s): 3
An examination of selected topics taken from the histories of the Nile Valley, Maghrib, Sahara, Ethiopian Highlands, and East African Horn regions. The interaction between these areas will receive special emphasis. 3 Credit(s).

Course Session Cycle: FA  
Course Yearly Cycle: EVEN

HIS 380 - Latin American History

Credit Hour(s): 3
A survey of Latin American history from pre-Columbian times to the present. The course focuses on major themes in the history of Spanish and Portuguese-speaking America, including the role of the Church, the politicization of the armed forces, the process of economic underdevelopment, adaptation to racial and ethnic diversity, and the development of political institutions. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

**HIS 383 - Caribbean Environmental History**

**Credit Hour(s): 3**
Students will engage in a survey of Caribbean environmental history during a guided tour of the Caribbean Leeward Islands, traveling by and residing on 40'-45' catamarans. Significant course foci include: impacts of British, Dutch, and French colonialism; plantation economies and economic geography; the consequences of settlement and subsequent diasporas throughout the Caribbean; the tension between poverty and power.

*A travel expense fee will be charged. 3 Credit(s).*

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher.

**Course Session Cycle:** E-term

**HIS 398 - Historiography**

**Credit Hour(s): 3**
This course is an introduction to historiography, the history, theory, and practice of historical studies. All students with a History major, minor, or concentration are required to take this course. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher. Nine hours of history classes.

**Course Session Cycle:** FA

**HIS 496 - Individual/Alternative Study**

**Credit Hour(s): 1-3**
Students who wish to pursue major individual research projects under the guidance of a faculty member; those who wish to read intensively on a topic or area in a faculty member's field of expertise but not covered in the regular curriculum; and those who wish to participate in special conferences, symposia, seminars, colloquia, etc. as part of a systematic course of study with a faculty member may, with the permission of the faculty member and the School Dean, register for credit under this course designation. (Students can earn up to three credit hours per semester for a total of no more than six credits under the HIS 496 designation.) 1-3 Credit(s).

**HIS 497 - Selected Topics in History**

**Credit Hour(s): 3**
A seminar format course that focuses on selected narrow topics of significance to current historical scholarship. Students are expected to do intensive research or reading on the topics and present a major paper or project. The course gives students deeper insight into the application of the methods of analysis used in the discipline, and is especially recommended for students planning on postgraduate study. A student may repeat the course for credit only if the topics offered are different. 3 Credit(s).

**Prerequisite(s):** Junior standing as a History major.

**HIS 498 - Senior Seminar**
Credit Hour(s): 3
After considering the methodology of historical research and the techniques of writing history, students will complete an original work of historical scholarship. All history majors must successfully complete this course before graduating. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.

Honors

HON 100 - Cornerstone Seminar: Perspectives on Leadership (replaces GWS 101 for Honors students)

Credit Hour(s): 3
The cornerstone seminar serves as an introduction to liberal arts learning for honors students by examining the topic of leadership. Interdisciplinary in nature and writing intensive in structure, this seminar asks students to wrestle with the question "what does it mean to be a leader?" Students will explore this question from a variety of different perspectives including the history of leadership theory, ethics and leadership, social and psychological dimensions of leaders and followers, critical thinking, and skills of leadership. 3 Credit(s).

Prerequisite(s): Boone Honors Program member.

Course Session Cycle: SP

HON 205 - Decision-Making and Problem Solving with Mathematics

Credit Hour(s): 3
This course provides a solid basis in logic and problem-solving with an emphasis on decision-making. Specifically, the course uses Symbolic Logic to find valid/invalid arguments, Graphs and Networks to find efficient routes, Statistics to analyze data and trends, Algebra and Linear Systems to find solutions, break-even points and optimal points, and Voting and Apportionment to study social choice and fair division. 3 Credit(s).

Meets Mathematics Requirement.

Prerequisite(s): Boone Honors Program member or a grade of "B" or higher in MTH 100 or higher. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Course Session Cycle: FA

HON 206 - The Bible and The Arts

Credit Hour(s): 3
An interdisciplinary course that explores how the Bible has functioned as a classic text in western culture. The course will consider the reception history of selected biblical texts in literature, film, drama, the visual arts, and the musical arts. 3 Credit(s).

Meets Bible-based or Non-Bible-based Religion Requirement.

Prerequisite(s): Boone Honors Program member, or ENG 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Course Session Cycle: FA

HON 210 - Reason and the Individual
Credit Hour(s): 3
This course is an interdisciplinary examination of the English-speaking world in the eighteenth century when individualism and rationalism emerged as dominant paradigms of the transatlantic community. Through in-depth study of some of the leading figures in this emerging world view, students will come to appreciate more fully their roles as individuals in modern society. 3 Credit(s).
Meets Literature or 3 credits toward History Requirement.
Prerequisite(s): Boone Honors Program member, or ENG 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

HON 211 - Art, Literature, and Film of the Expressionist Period

Credit Hour(s): 3
This interdisciplinary course will explore the world of expressionist art as produced in Europe and America during the period 1890-1937. The mood of alienation between the avant garde and the middle class is a key feature of the art of this period. Students will have the opportunity to explore the philosophical, cultural, and political background that helped to foster this alienation and led artists to produce the characteristically distorted look of expressionist art. The emphasis in the course will be on analyzing visual art, film, drama, and fiction that the leading expressionists produced. 3 Credit(s).
Meets Literature or Fine Arts Requirement.
Prerequisite(s): Boone Honors Program member, or ENG 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

HON 213 - Media and Violence

Credit Hour(s): 3
An interdisciplinary, team-taught, writing intensive study of the relationship between media and violence. The emphasis of the course will be on how violence is depicted in news and entertainment media, how media depictions of violence affect society, how social scientists study these effects, and how the problems associated with media and violence might be addressed. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): Boone Honors Program member, or ENG 102 with a grade of "C" or higher. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.
Course Session Cycle: FA
Course Yearly Cycle: ODD

HON 215 - Science and Art

Credit Hour(s): 4
This is an interdisciplinary course designed as an introduction to the basic elements of general, analytical and organic chemistry using technical examination of artwork such as paintings, sculpture, stained glass and others. The course will place emphasis on teaching science, mainly chemistry, in context of proper examination, examining and proving authenticity, restoration of art objects; it also will address questions in history, religion and economics. The course is designed in a lecture/discussion/laboratory format, where students will view images of objects of arts, observe different techniques and also view movies. The course will fulfill a science requirement for non-science majors and might be an elective for Art majors. Understanding of science behind artworks will allow a profound appreciation of the wonderful world of art, and demonstrate it tight connection with science. 4 Credit(s). 5 Contact Hour(s).
Meets Fine Arts Requirement or 4 credits toward Natural Science Requirement for Non-Science Majors.

**Prerequisite(s):** Boone Honors Program member and MTH 100 or higher or HON 205. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

**Course Session Cycle:** SP  
**Course Yearly Cycle:** EVEN

**HON 216 - The Sixties**

**Credit Hour(s):** 3  
The Sixties is an interdisciplinary course that explores the political, cultural, and scientific changes that marked this turbulent and influential decade in American history. Our discussions will cover topics ranging from presidential decisions to popular culture. We'll look carefully at the operations of the U. S. Government in both domestic (Great Society) and foreign (Cold War and Vietnam War) policy; we'll also consider the challenges to the status quo posed by the Civil Rights Movement, the student anti-war movement, and the Women's Movement. We'll learn about the "race in space" that culminated in the lunar landing. In addition, we'll explore changes in cultural values represented in literature and journalism, the visual arts, and music. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** Boone Honors Program member, or ENG 102 with a grade of "C" or higher. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

**Course Session Cycle:** SP  
**Course Yearly Cycle:** ODD

**HON 217 - Countdown 2050: Science Literacy in the Anthropocene**

**Credit Hour(s):** 3  
This interdisciplinary course examines science literacy in the public health, agricultural, and environmental sectors. By examining controversies and rhetoric, students will explore how anti-scientism, public psychology and the "death of expertise," and social media influence individual and public policy decision-making.

3 Credit(s).

This course meets three credits toward a natural science requirement.

**Prerequisite(s):** Boone Honors Program member, or ENG 102 with a grade of "C" or higher. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

**Course Session Cycle:** SP  
**Course Yearly Cycle:** ODD

**HON 222 - Political Psychology**

**Credit Hour(s):** 3  
This course will engage in an interdisciplinary investigation of the role of human thought, emotion and behavior in political processes and the formation of political opinion. After gaining an overview of political psychology, students will examine core psychological principles and experimental methods, exploring theories regarding personality, social group behavior and the role of emotion in decision-making processes. Next, students will apply these concepts to a variety of topics within political science, including race relations, media and political advertising, formation of opinions and ideologies, and other relevant topics in this field. Finally, students will work to apply their knowledge to a current political event or process and present their findings to their peers. 3 Credit(s).

Meets Social Science Requirement.

**Prerequisite(s):** Boone Honors Program member, or ENG 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.
HON 223 - Political Satire

Credit Hour(s): 3
This course examines classic and contemporary satire and explores its role in political communication. 3 Credit(s).
This course is designated as a sophomore literature course and meets the Literature Liberal Arts Requirement or Social Science Requirement.
If a student takes a second sophomore literature course and earns a "C" or higher in it, the course may be used to fulfill three credits of the Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): Boone Honors Program member, or a grade of "C" or higher in ENG 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

HON 225 - Religion and Science: Historical and Contemporary Perspectives

Credit Hour(s): 3
This interdisciplinary team-taught seminar is designed to help students become critically informed about some of the ways theistic religion and science are being perceived as relating to one another. Students will explore 1) the history of the religion-science relationship, 2) various contemporary ways of thinking about the relationship between religion and science, 3) current theories of cosmology, evolutionary biology, molecular biology, ecology, and their implications for theological discourse. 3 Credit(s).
Meets Non-Bible-based Religion or 3 credits toward Science Requirement.
Prerequisite(s): Boone Honors Program member, or ENG 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

HON 435 - Values and Vocation

Credit Hour(s): 3
Capstone honors seminar that asks students to explore the connections between values, talents, and career choices. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. Boone Honors Program members only.

Horticulture

HOR 180, 181 to 480, 481 - Practicum

Credit Hour(s): 1
Allows the student to gain firsthand experience and knowledge of procedures and practices common to the field by providing service to program, college, business, and/or the community. Pass/Fail. 1 Credit(s). 45 Service Hour(s).
Prerequisite(s): AGS 110.
Course Session Cycle: FASP
HOR 190, 290, 390 or 490 - Special Topics

Credit Hour(s): 1-4
Specifically designed for Agriculture Sciences majors with an emphasis in Horticulture to be able to design an independent study class in a specialized field that is not normally in the schedule. 1-4 Credit(s).

HOR 195, 196 to 495, 496 - Independent Research

Credit Hour(s): 1-3
Under faculty supervision, students will design and carry out a vigorous scientific study of a specific problem in agriculture. Written and oral presentations of the research are required. 1-3 Credit(s).
Prerequisite(s): Coursework and skills determined by individual instructors.
Course Session Cycle: FASP

HOR 321 - Plant Propagation

Credit Hour(s): 4
Explores plant propagation by seed, cottage, and graftage, covering scion/stock relationship, stock production for woody and herbaceous plants, and other practices employed in greenhouses and nurseries in increase of plants. Also includes study of specialized propagation by cell and tissue culture. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 202.
Course Session Cycle: SP
Course Yearly Cycle: ODD

HOR 410 - Greenhouse Management

Credit Hour(s): 4
Studies construction, maintenance, and utilization of greenhouses, and includes the management of the internal and external environment of these structures. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 202.
Course Session Cycle: FA
Course Yearly Cycle: ODD

HOR 411 - Landscape Design and Management

Credit Hour(s): 4
Explains relationships of plants and other aspects of the landscape, particularly concerned with inhabited areas including dwellings, commercial and public institutions, athletic areas, etc., and considers plants in landscape design. Also studies characteristics and utilization of turf and covers for lawns, athletic fields, golf courses, cemeteries, parks, highways, and airfields. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): BIO 202.
Course Session Cycle: SP
Course Yearly Cycle: ODD

HOR 415 - Plant Diseases

Credit Hour(s): 4
Studies plant disease development and control with applications in crop science, horticulture, forestry, and natural areas and covers both organismal and environmental factors of disease. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
HOR 418 - Plant Pest Management

Credit Hour(s): 4
Treats the biology, classification, ecology, and damage of important arthropod, weed, and vertebrate pests of forest, field, and nursery and emphasizes development and use of integrated controls, both economic and environmental. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Prerequisite(s): CRP 301, CRP 315, or ESC 203.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

Humanities

HUM 200 - The Holocaust: Past, Present, and Future

Credit Hour(s): 3
This course is a team-taught, multidisciplinary course examining the Holocaust through the perspectives of history, psychology, sociology, art, music, language, and literature. It will include discussions and activities with students and faculty teams dealing with the historical and social conditions leading up to the Holocaust, the resulting dehumanization and death, and well as the strategies for survival. The course will also examine the post-war dangers of neo-Nazism, totalitarianism, racism, and intolerance in our own times. Students will be asking themselves difficult, often painful, questions about their own feelings on these subjects by reading, writing, inquiring, and interacting as they work toward becoming more informed and humane members of society. 3 Credit(s).
Prerequisite(s): ENG 102 with a grade of "C" or higher. (Please see HUM 300 if you are seeking 300-level credit.)
Course Session Cycle: SP
Course Yearly Cycle: ODD

HUM 300 - The Holocaust: Past, Present, and Future

Credit Hour(s): 3
This course is a team-taught, multidisciplinary course examining the Holocaust through the perspectives of history, psychology, sociology, art, music, language, and literature. It will include discussions and activities with students and faculty teams dealing with the historical and social conditions leading up to the Holocaust, the resulting dehumanization and death, and well as the strategies for survival. The course will also examine the post-war dangers of neo-Nazism, totalitarianism, racism, and intolerance in our own times. Students will be asking themselves difficult, often painful, questions about their own feelings on these subjects by reading, writing, inquiring, and interacting as they work toward becoming more informed and humane members of society. 3 Credit(s).
Prerequisite(s): ENG 102 with a grade of "C" or higher and junior standing.
Course Session Cycle: SP
Course Yearly Cycle: ODD

HUM 302 - African-American Studies: Forty Years and a Dream

Credit Hour(s): 3
This is an interdisciplinary course examining African-American history and culture for the last forty years, from King's "I Have a Dream" speech to the present. A team of faculty and guest speakers from English, sociology, religion,
history, criminal justice, education, and athletics will analyze developments in African-American life in their fields. Students will seek to answer questions regarding the accomplishments and failures of the ideals of the Civil Rights movement and begin to understand the forces shaping black life today, particularly in regard to young people. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns an "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher. Junior standing.

Course Session Cycle: SP
Course Yearly Cycle: EVEN

**HUM 333 - Intercultural Conflict Mediation**

Credit Hour(s): 3

This course engages intercultural differences that have led to major conflict in our time, examining causes and considering approaches to mediation and possible resolution. Designed exclusively for the 3-week term, the course will at each offering focus on one particularly compelling conflict in which students will become immersed in a culturally divisive setting and become personally involved in a mediating function. 3 Credit(s).

This course is designated by Ferrum College faculty to meet the entire Speaking Intensive requirement; a grade of "C" or higher in this course is required for this course to be used by a student to complete the Speaking Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the speaking assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or better and a letter of recommendation from the student's faculty advisor.

**International Studies**

**IST 325 - Special Topics in International Studies**

Credit Hour(s): 3

This course will introduce and expand student understanding of other countries or regions through a detailed study of an interdisciplinary topic. Topics of the course will vary and will incorporate history, culture, art, literature, politics, and current events. Students may take this course twice, but only if it covers a different topic each time taken. 3 Credit(s).

Prerequisite(s): Junior or senior standing.

Course Session Cycle: SP
Course Yearly Cycle: EVEN

**IST 350 - International Relations Theory**

Credit Hour(s): 3

This course is an introduction to International Relations (IR) theory and global politics. The course will introduce students to the principle theoretical approaches in International Relations and the components/concepts of each. The course will also apply these theoretical approaches to current and past events in international relations and global politics. Throughout the semester, students will become familiarized with issues and policies within international and global politics, and identify the paths through which IR theories can be applied to politics and policy. Students are expected to critically engage each theoretical approach, demonstrate comprehension of the approaches, and develop critical interpretations of each approach. 3 Credit(s).

Prerequisite(s): PSC 203.

Course Session Cycle: SP
Course Yearly Cycle: ODD
IST 496 - Individual or Collaborative Study

Credit Hour(s): 3
Working under the direction of individual faculty members, students conceptualize, design, and begin to implement research projects that they continue to develop throughout the remainder of their senior year. Faculty project directors are matched with students based on the subject matter and scope of projects. Students may elect to conduct research in any field within the International Studies curriculum. 3 Credit(s).
Prerequisite(s): PSC 203, any of the following research courses: (SSC 251, SOC 470, HIS 398, or ENG 401), senior standing.
Course Session Cycle: FA

IST 498 - International Studies Senior Seminar

Credit Hour(s): 3
A capstone course in which students synthesize, expand, and present research projects previously developed in IST 496. 3 Credit(s).
Prerequisite(s): IST 496 and Senior Standing.
Course Session Cycle: SP

Mathematics

MTH 100 - Intermediate Algebra

Credit Hour(s): 3
Intended for students who are not ready to begin pre-calculus, but who require an understanding of those principles and methods of algebra that are prerequisite for the study of statistics and applied mathematics of the social sciences as well as pre-calculus. (Hours earned count toward graduation, but course does not meet Liberal Arts Requirements.) This course has an additional fee. 3 Credit(s).
Course Session Cycle: FASP

MTH 105 - Fundamentals of Mathematics

Credit Hour(s): 3
This course introduces Liberal Arts Students to multiple topics in Mathematics. It helps students develop critical thinking skills; improve their ability to analyze and solve problems; and improve their use of mathematical skills and tools. Topics covered will include a combination of Logic, Algebra, Geometry, Financial Math, and selected other topics. 3 Credit(s).
Meets Mathematics Requirement.
Course Session Cycle: FASP

MTH 106 - Math Manipulatives

Credit Hour(s): 3
This three week course offers students a "hands on" approach to mathematics. Different areas of mathematics will be examined including, but not limited to, algebra, geometry, and calculus. Students' understanding will be demonstrated through presentations and/or demonstrations. 3 Credit(s). 6 Contact Hour(s).

MTH 107 - Introduction to Finite Mathematics
Credit Hour(s): 3
An introduction to topics from finite mathematics including sets, probability, algebra of functions, and descriptive statistics. The focus is on analyzing, interpreting data and problem-solving to both provide a firm quantitative background and prepare students for further courses in statistics. 3 Credit(s).
Meets Mathematics Requirement.
Prerequisite(s): MTH 100 or MTH 105 with a grade of "C" or higher in either.
Course Session Cycle: FASP

MTH 111 - Pre-Calculus I

Credit Hour(s): 3
In this course students will study basic mathematical functions, systems of linear equations, and applications of mathematics to business and science. Functions studied include: polynomial, exponential, and logarithmic functions. 3 Credit(s).
Meets Mathematics Requirement.
Prerequisite(s): MTH 100 with a grade of "C" or higher.
Course Session Cycle: FASP

MTH 112 - Pre-Calculus II

Credit Hour(s): 3
In this course students expand their knowledge of pre-calculus topics to include trigonometric functions, sequences, and series. 3 Credit(s).
Meets Mathematics Requirement.
Prerequisite(s): MTH 111 with a grade of "C" or higher.
Course Session Cycle: SP

MTH 180, 280, 380 or 480 - Mathematics Practicum

Credit Hour(s): 1
The course will be tailored to the interest and talents of each individual student. The goal will be to give the student hands on experience in some aspect of mathematics not specifically addressed in the regular course curriculum. Students will work closely with an individual faculty member or committee of members. Examples of experiences possible include (but are not limited to) such things as aiding as an assistant in the statistics and physics classes and the investigation of special topics and projects of interest to the student. It must be stressed that the work will be carefully constructed around the student's background and interests. 1 Credit(s).
Course Session Cycle: FASP

MTH 190, 290, 390 or 490 - Selected Topics

Credit Hour(s): 1-3
A course to acquaint students with important Mathematical topics that are not covered in the regular Mathematics curriculum. These courses allow the program to adapt to the needs of our students and to the professional expertise that might be available. Credit hours vary depending on course topic. 1-3 Credit(s).
Prerequisite(s): Depends on course topic.

MTH 203 - Concepts in Calculus

Credit Hour(s): 3
MTH 203 is designed for students majoring in business or a social science. Topics covered provide an introduction to differential and integral calculus. MTH 203 and MTH 211 may not both be taken for credit. 3 Credit(s).
Meets Mathematics Requirement.

**Prerequisite(s):** A grade of "C" or higher in MTH 111.

**Course Session Cycle:** SP

**MTH 208 - Introductory Statistics**

**Credit Hour(s):** 3  
In this course students study theory and application of descriptive and inferential statistics. 3 Credit(s).

**Prerequisite(s):** MTH 107, MTH 111 or higher.

**Course Session Cycle:** FASP

**MTH 211 - Calculus I**

**Credit Hour(s):** 3  
A study of analytic geometry, limits, continuity, and differentiation of algebraic, exponential, trigonometric, and logarithmic functions. Applications of the derivative will include: The Mean Value Theorem, optimization, and curve sketching. 3 Credit(s).

Meets Mathematics Requirement.

**Prerequisite(s):** MTH 112 with a grade of "C" of higher.

**Course Session Cycle:** FA

**Course Yearly Cycle:** EVEN

**MTH 221 - Calculus II**

**Credit Hour(s):** 3  
This course covers Riemann Sums, the definite integral, The Fundamental Theorems of Calculus, techniques of integration (substitution, integration by parts, partial fraction decomposition, trigonometric substitution), improper integrals, and introduces power series. 3 Credit(s).

**Prerequisite(s):** MTH 211 with a grade of "C" or higher.

**Course Session Cycle:** SP

**Course Yearly Cycle:** ODD

**MTH 234 - Mathematical Reasoning**

**Credit Hour(s):** 3  
Mathematical reasoning and proofs in the context of naïve set theory and elementary number theory. Introduces logic and methods of proof, deductive reasoning and the axiomatic method. 3 Credit(s).

**Prerequisite(s):** MTH 111 with a grade of "C" or higher.

**Course Session Cycle:** FA

**Course Yearly Cycle:** ODD

**MTH 243 - Discrete Mathematics**

**Credit Hour(s):** 3  
An introduction to discrete mathematical structures and counting methods. Covers relations, equivalence relations, partial orders, functions, binomial numbers, inclusion-exclusion, generating functions, recurrence relations, graphs, trees, bipartite graphs, matchings. Introduces the method of proof by mathematical induction. 3 Credit(s).

**Prerequisite(s):** MTH 234 with a grade of "C" or higher.

**Course Session Cycle:** SP

**Course Yearly Cycle:** EVEN
MTH 246 - Linear Algebra I

Credit Hour(s): 3
Matrices, operations between matrices, row operations, echelon forms, systems of linear equations, Gauss-Jordan elimination, inverse matrices, rank of a matrix, determinants. 3 Credit(s).
Prerequisite(s): MTH 221 or MTH 243 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

MTH 306 - Intermediate Statistics

Credit Hour(s): 3
Follows MTH 208. More advanced topics in parametric and nonparametric statistics are considered. 3 Credit(s).
Prerequisite(s): MTH 208.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

MTH 320 - Concepts in Liberal Arts Mathematics

Credit Hour(s): 3
Designed for students seeking a more advanced and thorough treatment of the topics generally associated with mathematics for liberal arts students. It provides those planning to teach mathematics the background to confidently and comfortably present the mathematics in the school curriculum. 3 Credit(s).
Prerequisite(s): MTH 105 or higher.
Course Session Cycle: SP

MTH 322 - Calculus III

Credit Hour(s): 3
Vector Calculus, partial differentiation, and multiple integrals are included in this course. 3 Credit(s).
Prerequisite(s): MTH 221 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

MTH 324 - Elements of Geometry and Number Theory

Credit Hour(s): 3
This course presents topics from Euclidean geometry and number theory. Non-Euclidean geometries (hyperbolic, elliptic) are studied along with the history of the parallel postulate. The axiomatic method is used in this course. Topics from Euclidean geometry include the theorems on transversals, the four centers of a triangle, Pythagoras Theorem and results on arcs, cords, secants and tangents to a circle. Topics from number theory include divisibility, prime numbers, Euclid's algorithm and the fundamental theorem of arithmetic. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. MTH 221 or MTH 243 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: ODD

MTH 332 - Differential Equations
Credit Hour(s): 3
This course introduces Ordinary Differential Equations and continues the study of sequences and series. Topics include convergence tests for series, power series, radius of convergence, Taylor series, modeling with differential equations, direction fields, Euler's method, separable equations, and series solutions of second order differential equations. 3 Credit(s).
Prerequisite(s): MTH 322 with a grade of "C" or higher.
Course Session Cycle: SP
Course Yearly Cycle: ODD

MTH 342 - Abstract Algebra

Credit Hour(s): 3
Abstract Algebra is the study of various mathematical structures such as groups, rings, and fields. The course content includes the theorems of Cayley, Lagrange, Cauchy and Fermat. Homomorphism theorems for groups. The study of rings will include ideals, homomorphism theorems, polynomial rings, and quotient rings. The study of fields will include field extensions and constructions with straight-edge and compass. 3 Credit(s).
Prerequisite(s): MTH 324 with a grade of "C" or higher.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

MTH 357 - Linear Algebra II

Credit Hour(s): 3
This course presents vector spaces, subspaces, linear combinations, linear independence, bases, dimension, linear transformations, change of basis, the null space, isomorphisms between vector spaces, duality, eigenvectors, eigenvalues, characteristic and minimal polynomials, the Cayley-Hamilton Theorem, inner-product spaces, orthogonal projections and complements, orthonormal bases and the Gram-Schmidt algorithm. 3 Credit(s).
Prerequisite(s): MTH 246 with a grade of "C" or higher.
Course Session Cycle: SP
Course Yearly Cycle: ODD

MTH 410 - Introduction to Numerical Methods

Credit Hour(s): 3
An introduction to the fundamental methods that are used to solve problems in applied mathematics. Topics will include the approximation of functions, numerical integration and differentiation, and the solution of systems of equations. Software will be used to apply these methods to a variety of problems in science, engineering, and business. 3 Credit(s).
Prerequisite(s): MTH 211, MTH 246.
Course Session Cycle: SP
Course Yearly Cycle: ODD

MTH 497 - Foundations of Mathematics

Credit Hour(s): 2
This course is the beginning of the capstone experience for Mathematics majors. The first part of the course involves preparation for and the taking of a comprehensive examination on the foundational areas of mathematics. The written examination is divided into three levels, each of which is taken separately and each of which must be passed in order to proceed to the next. The student must pass all three levels in order to pass the course. The second part of the course involves preparation for and the taking of an oral examination on an advanced area of mathematics of the student's choosing. The student must pass the oral examination in order to pass the course. 2 Credit(s).
Prerequisite(s): MTH 208, MTH 243, MTH 246, and MTH 332.
Course Session Cycle: FA

**MTH 498 - Senior Seminar in Mathematics**

**Credit Hour(s): 3**
Discussion and presentation of papers by students and faculty on problems of current interest in Mathematics using knowledge gained from previous courses and initiating new and current research ideas. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
**Prerequisite(s):** ENG 102 with a grade of "C" or higher. MTH 497 and Senior standing with a major in Mathematics.
**Course Session Cycle: SP**

**Music**

**MBU 201 - Music Business I**

**Credit Hour(s): 3**
This course introduces students to basic principles of marketing, publishing, licensing, distributing, selling, and promoting music. Students will learn the essential business management skills needed to pursue a career in the music industry.

3 Credit(s).
**Course Session Cycle: Spring**

**MBU 301 - Music Business II**

**Credit Hour(s): 3**
After completing Music Business I, students will continue to learn the essential business management skills needed to pursue a career in the music industry.

3 Credit(s).
**Course Session Cycle: Spring**

**MBU 401 - Advanced Topics in Music Business**

**Credit Hour(s): 1**
Students will learn the necessary steps to apply for jobs in the music industry. They will prepare resumes and cover letters, and learn how to request references. They will also learn about preparing for interviews, networking and branding.

1 Credit(s).
**Course Session Cycle: Spring**

**MBU 499 - Music Business Internship**
Credit Hour(s): 3
An off-campus experiential learning activity designed to provide students with opportunities to make connections between the theory and practice of academic study and the practical application of that study in a professional work environment within the music business industry.

3 Credit(s). Approximately 10-15 hours a week on site. Contact Hour(s).

Prerequisite(s): MBU 201 and MBU 301

MUS 100 - Music Appreciation

Credit Hour(s): 3
An introduction to the various aspects of the art of music. Included is a brief survey of the major periods of music, together with listening to and discussion of representative works of selected composers from each period. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: FASP

MUS 102 - Music Fundamentals

Credit Hour(s): 3
A basic course for the student interested in becoming competent with the elements of music reading and its applications to singing and the playing of simple songs. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: SP

MUS 105 - Music Theory I

Credit Hour(s): 2
Music Theory I introduces the foundations of common-practice melody, harmony, and voice leading. It focuses on written analysis of these foundations found in Western classical music of the eighteenth and early nineteenth centuries.

2 Credit(s). 160 Contact minutes Contact Hour(s).

Prerequisite(s): Passing a simple music theory placement exam administered by Ferrum College music faculty.

Course Session Cycle: Fall
Course Yearly Cycle: Every

MUS 106 - Aural Skills Lab I

Credit Hour(s): 1
Students will practice melodic, harmonic and rhythmic dictation as well as sight-singing. Music majors must also register for the co-requisite course, Music Theory 1, the same semester.

1 Credit(s). 2 Contact Hour(s).

Course Session Cycle: Fall

MUS 107 - Music Theory II

Credit Hour(s): 2
Music Theory II expands on the study of foundations of common-practice melody, harmony, and voice leading studied
in Music Theory I. It also focuses on written analysis in Western classical music of the nineteenth century (Romantic Period) and early twentieth century (Modern Period), with a strong emphasis in chromatic harmonies and sonata form.

2 Credit(s).

Course Session Cycle: Spring

**MUS 108 - Aural Skills Lab II**

Credit Hour(s): 1
Continuing after Aural Skills Lab I, students will practice more advanced melodic, harmonic, and rhythmic dictation as well as sight-singing individually and in a group setting. A passing grade in Aural Skills I is a prerequisite for this course; however, music majors must also register for the co-requisite course, Music Theory II, the same semester. 1 Credit(s). 2 Contact Hour(s).
Prerequisite(s): MUS 106
Course Session Cycle: Spring

**MUS 111, 112 to 411, 412 - Concert Choir**

Credit Hour(s): 1
This large group studies choral literature from all periods of music history and performs in campus and off-campus concerts and programs. Open to all college students each semester without auditions, the Ferrum College Concert Choir requires public performance. 1 Credit(s). 3 Contact Hour(s).
Course Session Cycle: FA

**MUS 117, 118 to 417, 418 - Collegiates**

Credit Hour(s): 1
This auditioned group performs choral literature from the Renaissance to the contemporary, suited to the number of singers. The focus is to achieve excellence in ensemble balance, rapport, technique, and style. Public performance required. Attire Fee required. 1 Credit(s). 3 Contact Hour(s).
Course Session Cycle: FA

**MUS 119, 120 to 419, 420 - Band**

Credit Hour(s): 1
The Band performs regularly at Ferrum College athletic events and is open to students that have prior instrumental experience. Students receive one hour credit for each semester that they participate in Band. Public performance required. Attire Fee required. 1 Credit(s). 3 Contact Hour(s).
Course Session Cycle: FA

**MUS 121, 122 to 421, 422 - Handbell Ensemble**

Credit Hour(s): 1
The Handbell Ensemble, open to students who read rhythm, performs original music for handbells as well as transcriptions of hymns, classical favorites, and folk and show tunes. Students receive one hour credit for each semester that they participate in the group. 1 Credit(s). 3 Contact Hour(s).
Course Session Cycle: FA

**MUS 123, 124 to 423, 424 - Jazz Combo**
Credit Hour(s): 1
The Jazz Combo performs regularly and is open to students that have prior experience. Students in the Jazz Combo study music that traces the history of the idiom. Students receive one hour credit for each semester that they participate in the group. 1 Credit(s). 3 Contact Hour(s).

MUS 127, 128 to 427, 428 - Classical Ensemble

Credit Hour(s): 1
The Classical Ensemble performs regularly and is open to students that have prior experience. The Classical Ensemble explores chamber music and works composed for concert band. Students receive one hour credit for each semester that they participate. 1 Credit(s). 3 Contact Hour(s).

MUS 143, 144 - Piano Class

Credit Hour(s): 1
A group setting for beginning piano instruction and music reading. 1 Credit(s). 2 Contact Hour(s).
Course Session Cycle: FA

MUS 145 - The World of Piano

Credit Hour(s): 3
An introduction to piano playing, coupled with a survey of historic keyboard masterpieces from Bach to Rachmaninov. 3 Credit(s).
Meets Fine Arts Requirement.

MUS 151, 152 to 451, 452 - Private Music Lessons

Credit Hour(s): 1
Applied one-half hour music lessons are available in voice, piano, and other musical instruments as approved by the instructor. This course has an additional fee. 1 Credit(s). 0.5 Contact Hour(s).
Course Session Cycle: FA

MUS 153 - Voice Class

Credit Hour(s): 1
Class instruction in the basic and intermediate techniques of singing through lecture and demonstration, group instruction, and individual participation. 1 Credit(s). 2 Contact Hour(s).
Course Session Cycle: FA

MUS 154 - Voice Class

Credit Hour(s): 1
Class instruction in the basic and intermediate techniques of singing through lecture and demonstration, group instruction, and individual participation. 1 Credit(s). 2 Contact Hour(s).
Course Session Cycle: SP

MUS 155 - Guitar Class
Credit Hour(s): 1
Basic techniques for playing solos and accompaniments. Students need to provide an acoustical guitar, preferably with nylon strings, and study material. Beginners only. 1 Credit(s). 2 Contact Hour(s).

MUS 161, 162 to 461, 462 - Applied Music Lessons

Credit Hour(s): 2
Applied one-hour music lessons are available in voice, piano, and other musical instruments as approved by the instructor. This course has an additional fee. 2 Credit(s). 1 Contact Hour(s).
Course Session Cycle: FA

MUS 310 - Introduction to Conducting

Credit Hour(s): 1
This course introduces the foundations and common-practice techniques of the art of conducting. Students will learn baton technique as well as score study and rehearsal techniques. 1 Credit(s). 2 Contact Hour(s).
Prerequisite(s): MUS 105, MUS 106, MUS 107, and MUS 108
Course Session Cycle: Fall

MUS 358 - Music: Baroque and Classic Periods

Credit Hour(s): 3
Familiarizes students with the history of Western musical culture, helps them understand how music reflects the society from which it originates, and acquaints them with masterpieces and developments from 1620 to 1800. 3 Credit(s).
Meets Fine Arts Requirement.
Prerequisite(s): MUS 100.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

MUS 359 - Music: Romantic and Modern Periods

Credit Hour(s): 3
Familiarizes students with the history of Western musical culture, helps them understand how music reflects the society from which it originates, and acquaints them with masterpieces and developments from the nineteenth and twentieth centuries. 3 Credit(s).
Meets Fine Arts Requirement.
Prerequisite(s): MUS 100.
Course Session Cycle: SP
Course Yearly Cycle: ODD

MUS 426 - Music for Children

Credit Hour(s): 3
Principles of music development in children. Includes emphasis on selection of materials for children, classroom techniques for musical development. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

MUS 428 - Foundations in Music Education
Credit Hour(s): 2
This course focuses on the foundations of music education and the transition from music student to music teacher and professional. Students will learn to describe different music learning theories and visit local area schools for observations.

2 Credit(s).

Course Session Cycle: Spring

MUS 465 - Senior Recital

Credit Hour(s): 1
The Senior Recital is the final project for music performance majors at Ferrum College. It consists of a 45-to-50-minute public performance of repertoire studied in applied music lessons. Successful completion of the pre-recital jury in the fall and enrollment in applied lessons the semester of the recital are requirements for this course.

1 Credit(s).

Prerequisite(s): Passing a pre-recital jury and seven semesters of applied lessons.
Course Session Cycle: Spring

MUS 480 - Music Seminar: Advanced Topics in Performance

Credit Hour(s): 3
Provides intensive study in a particular topic in music that is not available through other courses or internship. 3 Credit(s).

Prerequisite(s): Consent of instructor.

Natural Science and Mathematics

NSM 190, 290, 390 or 490 - Special Topics

Credit Hour(s): 1-4
A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule. 1-4 Credit(s).

NSM 398 - Junior Seminar

Credit Hour(s): 3
Students will study current issues and research in a seminar format. Outside speakers, students, and faculty will make presentations in junior and senior seminars. Papers from the scientific literature will be analyzed and criticized. Students will synthesize theoretical and practical experience in preparation for a successful career. 3 Credit(s). 3.5 Contact Hour(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. This course is designated Speaking Intensive; a grade of "C" or higher in this course is required for this course to count toward the three-credit-hour Speaking Intensive courses required for graduation from Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the speaking assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.

Course Session Cycle: FASP
NSM 399 - Professional Preparation

Credit Hour(s): 1
All students preparing to do internships in the Natural Sciences must complete this course. Students will demonstrate the ability to seek, secure, and prepare for a professional job. Using individual and group conferences, instructors assist students in finding potential internships, completing resumes, cover letters, and interviews, and in developing skills in career planning. 1 Credit(s).
Course Session Cycle: SP

NSM 498 - Senior Seminar

Credit Hour(s): 3
As a review of the College career and as a preparation for the life ahead, this course uses reading, writing, listening, speaking, and synthesis as means to develop student self-awareness and confidence. Exercises in this class allow students to investigate their own practical and theoretical experience and to forge new relationships with their past lives and their future expectations. 3 Credit(s). 3.5 Contact Hour(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
This course is designated Speaking Intensive; a grade of "C" or higher in this course is required for this course to count toward the three-credit-hour Speaking Intensive courses required for graduation from Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the speaking assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher and NSM 398.
Course Session Cycle: FASP

NSM 499 - Internship

Credit Hour(s): 3
Internships are normally spent in a 400-hour off-campus work situation or voluntary service activity. They are carefully supervised and designed to provide practical experience in areas related to academic coursework. This course has an additional fee. 3 Credit(s). 400 Service Hour(s).
Prerequisite(s): NSM 399 and 2.0 grade point average.

Philosophy

PHI 101 - Logic

Credit Hour(s): 3
An introduction to the various ways of distinguishing correct from incorrect reasoning. The course deals with Aristotelian as well as propositional logic and includes discussions focusing on the nature of an argument, informal fallacies, validity, and the differences between deductive and inductive argumentation. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: FASP

PHI 131 - The Human Condition

Credit Hour(s): 3
An introduction to the fundamental philosophical questions which arise within the context of human experience and to various methods of addressing these questions. The issues are introduced through an illumination of the human condition in Biblical texts. Students ponder, among other things, the meaning of life, the nature of reality and human
existence, the possibility of freedom, the existence of God, and the meanings of truth, goodness, and beauty. 3 Credit(s).
Meets Bible-based Requirement.
Course Session Cycle: FASP

**PHI 207 - Selected Topics in Philosophy**

Credit Hour(s): 3
A study of a selected philosophical issue. The topic under consideration varies from semester to semester according to periodic assessments of the needs and interests of students. Students may take only one 207 course as one of the two courses required to meet the general education requirement in philosophy. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: SP

**PHI 211 - Ethics**

Credit Hour(s): 3
An examination of the theoretical foundations of moral decision-making and their application to contemporary moral problems. Participants deal with consequentialist and non-consequentialist ethical systems, natural law, the question of moral responsibility, ethical egoism, and ethical relativism. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: FASP

**PHI 221 - Survey of Ancient and Medieval Philosophy**

Credit Hour(s): 3
A historical introduction to the major thinkers and dominant issues in the Western philosophical tradition from the pre-Socratic period to the Renaissance. The course includes discussions of Plato, Aristotle, St. Augustine, and St. Thomas Aquinas. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

**PHI 222 - Survey of Modern Philosophy**

Credit Hour(s): 3
A historical introduction to the major thinkers and dominant issues in the Western philosophical tradition from the 17th century to the beginning of the 19th century. Beginning with Descartes, the course includes discussions of the rationalist and empiricist traditions and culminates in the philosophy of Kant. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

**PHI 321 - 19th Century Continental Philosophy**

Credit Hour(s): 3
An examination of the dominant thinkers and themes of the 19th century continental philosophy. Beginning with a discussion of the retrieval and criticism of Kant by the German Idealists, the course proceeds to focus on the philosophy of Hegel and subsequent responses to it. The thinkers covered include Hegel, Marx, Kierkegaard, and Nietzsche. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
PHI 331 - Metaphysics

Credit Hour(s): 3
An examination of some of the fundamental problems in metaphysics such as the nature of reality, space and time, causality, and God. Special attention is given to determinism and the question of human freedom, as well as the mind/body relation. The course may also include development in contemporary metaphysics of experience. 3 Credit(s).

Meets Non-Bible-based Religion/Philosophy Requirement.

Prerequisite(s): One course of philosophy.

Course Session Cycle: SP
Course Yearly Cycle: ODD

PHI 332 - Phenomenology and Existentialism

Credit Hour(s): 3
Examines the thoughts of 20th century existential philosophers and the phenomenological method which many of these thinkers find indispensable to philosophical inquiry. The course also involves discussions of the significance of existential thinking and phenomenological methods for other disciplines, e.g., psychology and theology. Thinkers to be studied may include Husserl, Heidegger, Sartre, and Merleau-Ponty. 3 Credit(s).

Meets Non-Bible-based Religion/Philosophy Requirement.

Prerequisite(s): One course in philosophy.

Course Session Cycle: FA
Course Yearly Cycle: EVEN

PHI 411 - The Nature and Justification of the State

Credit Hour(s): 3
This course will examine the meaning of a sovereign state, and whether it is possible to justify its existence on moral grounds. It will first consider the theoretical issues of how states might come into existence without violating any basic moral principles, and if that is possible, whether the resulting state would be morally superior to anarchy. In addition, if the state is justifiable at all, how extensive a state can be justified? Students will consider state of nature, utilitarian, contractual, and libertarian theories. The second element of the course involves the consideration of specific actions of states in order to determine the extent to which those actions might be unjustifiable even if the state ultimately is justifiable. The issues here will include the use of force, punishment, paternalism, taxation, prohibition, redistribution, conscription, and war. 3 Credit(s).

Meets Non-Bible-based Religion/Philosophy Requirement.

Prerequisite(s): One course in philosophy.

Course Session Cycle: SP
Course Yearly Cycle: ODD

PHI 431 - Philosophy of Religion

Credit Hour(s): 3
This course is an in-depth examination of some of the basic problems in philosophy of religion. Participants might consider such topics as the existence of God, the problem of divine foreknowledge and human freedom, the perfection of God, the nature of faith, and the problem of evil. The course will consider traditional theistic perspectives as well as contemporary responses. 3 Credit(s).

Meets Non-Bible-based Religion/Philosophy Requirement.

Prerequisite(s): One course in philosophy.
PHI 481 - Topics in Philosophical Studies

Credit Hour(s): 3  
An intensive study of a particular philosopher, a philosophical problem, or a philosophical perspective. The content of the course varies from semester to semester. The selection of the topic is made by the professor and the prospective enrollees during the semester prior to that in which the seminar is offered. 3 Credit(s).  
Meets Non-Bible-based Religion/Philosophy Requirement.  
Prerequisite(s): One course in philosophy.  
Course Session Cycle: FA  
Course Yearly Cycle: ODD

PHI 495 - Directed Study

Credit Hour(s): 3  
This course offers students an option to conduct independent research in an area of interest not available in the regular curriculum. Under the guidance of faculty supervision, students will do research on a particular philosopher, a school of thought, or specific philosophical problems, and will write a paper articulating the results of that research. 3 Credit(s).  
Meets Non-Bible-based Religion/Philosophy Requirement.  
Prerequisite(s): Junior standing with 12 hours of philosophy.  
Course Session Cycle: EVEN

PHI 498 - Senior Seminar in Philosophy

Credit Hour(s): 2  
These courses are the final examination for philosophy majors. Their purpose is to draw the philosophy program together, showing each portion to be a part of a coherent whole, and to have the students demonstrate an essential understanding of the program, the discipline, and the students' place within the discipline. The fulfillment of this twofold purpose will require that students pass a comprehensive examination, and write a publishable senior essay which they will defend in a professional type of setting. 2 Credit(s).  
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.  
Prerequisite(s): ENG 102 with a grade of "C" or higher. Philosophy major and Senior Status.  
Course Session Cycle: FASP

PHI 499 - Senior Seminar in Philosophy

Credit Hour(s): 2  
These courses are the final examination for philosophy majors. Their purpose is to draw the philosophy program together, showing each portion to be a part of a coherent whole, and to have the students demonstrate an essential understanding of the program, the discipline, and the students' place within the discipline. The fulfillment of this twofold purpose will require that students pass a comprehensive examination, and write a publishable senior essay which they will defend in a professional type of setting. 2 Credit(s).  
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.  
Prerequisite(s): ENG 102 with a grade of "C" or higher. PHI 498.  
Course Session Cycle: FASP
Physics

PHY 190, 290, 390 or 490 - Special Topics

Credit Hour(s): 1-4
A course that allows the physics faculty, in response to student interest, to offer a class not normally in the schedule. 1-4 Credit(s).
Prerequisite(s): PHY 203.

PHY 201 - General Physics I

Credit Hour(s): 4
A non-calculus-based course emphasizing general principles in physics. This course considers objects from our daily environment and focuses on their principles of operation, histories, and relationships to one another. The emphasis for PHY 201 is on mechanical and thermal objects. PHY 202 emphasizes objects involving electromagnetism, light, special materials, and nuclear energy. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): MTH 111, MTH 112, MTH 203 or MTH 211.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

PHY 202 - General Physics II

Credit Hour(s): 4
A non-calculus-based course emphasizing general principles in physics. This course considers objects from our daily environment and focuses on their principles of operation, histories, and relationships to one another. The emphasis for PHY 201 is on mechanical and thermal objects. PHY 202 emphasizes objects involving electromagnetism, light, special materials, and nuclear energy. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): MTH 111, MTH 112, MTH 203 or MTH 211, PHY 201.
Course Session Cycle: SP
Course Yearly Cycle: ODD

PHY 203 - Fundamentals of Physics

Credit Hour(s): 4
Designed for science, engineering, and computer science majors. The four fundamental forces are investigated using the ideas and terminology of both differential and integral calculus. Topics covered include Newtonian mechanics, thermodynamics, electromagnetism, quantum effects, and special relativity. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): MTH 203 or MTH 221.
Course Session Cycle: FA
Course Yearly Cycle: FA

PHY 204 - Fundamentals of Physics

Credit Hour(s): 4
Designed for science, engineering, and computer science majors. The four fundamental forces are investigated using the ideas and terminology of both differential and integral calculus. Topics covered include Newtonian mechanics, thermodynamics, electromagnetism, quantum effects, and special relativity. This course has an additional fee. 4
Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
**Prerequisite(s):** MTH 203 or MTH 221. PHY 203.
**Course Session Cycle:** SP
**Course Yearly Cycle:** EVEN

## Political Science

### PSC 101 - American National Government and Politics

**Credit Hour(s):** 3

An introduction to the institutions and processes of the national government, with special emphasis on the principles that influence the constitutional order of the United States. *3 Credit(s).*

Meets Social Science Requirement.

**Course Session Cycle:** FASP

### PSC 202 - State and Local Government

**Credit Hour(s):** 3

A study of the institutional structures of state, city, and county governments and of the policy areas with which they deal: law enforcement, education, welfare policy, and other areas. *3 Credit(s).*

Meets Social Science Requirement.

**Course Session Cycle:** FASP
**Course Yearly Cycle:** ODD

### PSC 203 - International Politics

**Credit Hour(s):** 3

An analysis of the dynamic characteristics of international relations and an examination of the major concerns, theories, and models relevant to war and peace, economic development, environmental management, human rights, and other ethical principles of international relations. *3 Credit(s).*

Meets Social Science Requirement.

**Course Session Cycle:** SP

### PSC 205 - Comparative Government

**Credit Hour(s):** 3

Primarily a survey of the different countries in the world today and of their various forms of government. The course will introduce the student to basic political science concepts such as the state, the nation, social class, and the modernization process. *3 Credit(s).*

Meets Social Science Requirement.

**Course Session Cycle:** SP
**Course Yearly Cycle:** EVEN

### PSC 207 - Special Issues in Political Science

**Credit Hour(s):** 3

This elective course for underclassmen is designed to supplement regular offerings by allowing the study of political activity or specialized topics of contemporary political science research. Topics will vary from one offering of the
course to the next. Students may only take the course twice, and only if it covers a different topic each time they take it. 3 Credit(s).

**PSC 300 - Research Methods**

**Credit Hour(s): 3**  
An examination of the strategies and tactics of design, observation, and measurement in political science and criminal justice research. 3 Credit(s).  
**Prerequisite(s):** SSC 251.

**PSC 302 - Political Geography**

**Credit Hour(s): 3**  
Concentrates on the geographical nature of the state. It examines how state systems and the political behavior of nations find spatial expression or are organized on the earth. 3 Credit(s).  
**Course Session Cycle:** SP  
**Course Yearly Cycle:** ODD

**PSC 303 - Political Theory from Socrates to Locke**

**Credit Hour(s): 3**  
Surveys European political theory from classical times through the seventeenth century. Students will read Plato, Aristotle, Locke, and Hobbes. 3 Credit(s).

**PSC 304 - Modern Ideologies**

**Credit Hour(s): 3**  
A survey of the ideologies of liberal democracy, totalitarian democracy, and Marxism. Students will read the works of John Stuart Mill, Rousseau, Marx, and Engels. 3 Credit(s).  
**Course Session Cycle:** SP  
**Course Yearly Cycle:** EVEN

**PSC 306 - Politics and Human Rights**

**Credit Hour(s): 3**  
This course is an interdisciplinary examination of the relationship between politics and human rights. This course will cover violent conflicts, human rights abuses, and movements for freedom and reform in which politics is a factor. Students will study the impact of human rights issues on policymaking, explore universality versus relativism in human rights, and also deal with the human rights issues that will confront them in the future. 3 Credit(s).

**PSC 308 - Media and Politics**

**Credit Hour(s): 3**  
This course examines the history and function of the American news and entertainment media. Students will examine how the media influences political behavior and vice-versa. 3 Credit(s).

**PSC 310 - Political Parties and Groups in the United States**

**Credit Hour(s): 3**  
An examination of the character, functions, and roles of political parties and political interest groups. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. 

Prerequisite(s): ENG 102 with a grade of "C" or higher.

PSC 324 - U.S. Constitutional Law

Credit Hour(s): 3
An introduction to the analysis of judicial decisions: using case-based study, students will examine the Supreme Court and its decisions on selected constitutional and federal issues. 3 Credit(s).

PSC 332 - The Socio-Politics of Gender, Class, Ethnicity and Sexuality

Credit Hour(s): 3
This course examines the construction of group identity in regards to ethnicity, class, gender and sexuality and how these markers of difference lead to hierarchical power relations within modern societies. Students will read and discuss different types of political theories that focus on difference, such as: feminist theory, queer theory, multicultural theory and neo-Marxist theory. 3 Credit(s).

PSC 366 - Political Evil

Credit Hour(s): 3
This course examines the definition, theoretical underpinnings, and role of political evil in global politics. The course seeks to deconstruct the concept of political evil through an exploration of the ways in which use and procurement of power can result in mass atrocities and violence. In particular, the course takes an in-depth look at manifestations that political evil can take, such as genocide, wartime rape, poverty ethnic cleansing, and terrorism. 3 Credit(s).

PSC 384 - The President and Congress

Credit Hour(s): 3
This course will study how the President and the Congress share in the decision-making process and how each affects the operations of the other. It will also review proposals for improving this relationship. 3 Credit(s).

Prerequisite(s): PSC 101.
Course Session Cycle: ET
Course Yearly Cycle: EVEN

PSC 399 - Citizenship and Service Learning

Credit Hour(s): 3
This course is an introduction to the interplay of theory and practice relevant to students in political science. Students will be expected to acquire practical experiences resulting from a community-based civic education or service-learning project. 3 Credit(s).

Course Session Cycle: SP
Course Yearly Cycle: EVEN

PSC 402 - Policy Analysis

Credit Hour(s): 3
A study of the concepts, procedural, and substantive approaches in the design and evaluation of public policy. Case studies provide in-depth treatment of actual policymaking. 3 Credit(s).

Prerequisite(s): PSC 101.
PSC 420 - War and Peacekeeping: U.S. National Security Policy
Credit Hour(s): 3
Surveys the current and recent defense policies of the United States, the means by which defense policy is made, and the role of the military in American life. 3 Credit(s).

PSC 435 - Political Economy of Development
Credit Hour(s): 3
The political and economic aspects of the modernization process: what modernization is, alternative paths to modernization, the effects of ideology, political violence, and the military on the modernization process, and the impact of international trade on developing countries. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. Prerequisite(s): ENG 102 with a grade of "C" or higher.

PSC 440 - International Law and Organization
Credit Hour(s): 3
A comprehensive treatment of the relationship between law and international politics: particular attention is paid to international organizations, methods for the adjudication of international disputes, the enforcement of judicial decisions and treaties, and the customs and principles of law in international relations. 3 Credit(s).
Prerequisite(s): PSC 203.

PSC 491 - Topics in Political Science
Credit Hour(s): 3
Covers in depth a topic of current interest or of special importance not covered in the regular course offerings. Topics will vary from one offering of the course to the next. Students may take the course more than once, but only if it covers a different topic each time they take it. 3 Credit(s).
Prerequisite(s): Junior standing.

PSC 496 - Individual or Collaborative Study
Credit Hour(s): 1-3
This course offers students in political science the opportunity for individual study or collaborative research on a topic selected by the student with faculty guidance. 1-3 Credit(s).

PSC 498 - Capstone in Political Science
Credit Hour(s): 3
This will be a culminating experience in the Political Science program. Students will read, discuss, and research issues in all subfields of the discipline, including: American Politics, Comparative Politics, Political Theory, and International Relations. Students will synthesize knowledge from previous Political Science classes and conduct research in a way that branches between the sub-disciplines in the field. 3 Credit(s).
Prerequisite(s): PSC 101, SSC 251. At least one course from each of the three main elective categories in the major (Government, Comparative/IR, Theory/Methods), and at least one of the following: PSC 202, PSC 203 or PSC 205.
Course Session Cycle: SP
PSC 499 - Internship

Credit Hour(s): 3, 6 or 9
Both study and work internships are available. They may be used to fulfill the requirements of either an International Studies or a Political Science major. This course has an additional fee. 3, 6 or 9 Credit(s). Credits depend on number of hours worked. Service Hour(s).

Pre-Professional Health Science

PPH 110 - Introduction to One Health

Credit Hour(s): 4
This is an interdisciplinary course designed to introduce students to the concept of One Health which recognizes that the health of people is connected to the health of animals and the environment.

This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).

This course meets a lab science requirement.

PPH 190, 290, 390 or 490 - Special Topics

Credit Hour(s): 1-4
A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule. 1-4 Credit(s).

PPH 299 - Professional Preparation

Credit Hour(s): 1
An experiential introduction to the variety of Health Science Professions (such as Nursing/Nurse Practitioner, Physical Therapy, Physician Assistant, Clinical Laboratory Science, Osteopathic Medicine, Pharmacy, Veterinary Technology, Health Science Research, Medical Technology, Nuclear Medicine, Podiatric Medicine, Chiropractic Medicine, and Medical Imaging), reviewing the interplay among the various professions in the health care system. Accomplished through presentations by health care professionals and the instructor as well as student interviews and shadowing experiences. Includes a focus on understanding medical terminology, preparing a resume and a career development plan.

One and a half hours, one credit.

1 Credit(s). 1.5 Contact Hour(s).

Prerequisite(s):

Course Session Cycle: FASP

Psychology

PSY 201 - General Psychology

Credit Hour(s): 3
An introduction to the basic concepts, methods, theories, and applications of psychology. 3 Credit(s).
Meets Social Science Requirement.

**Course Session Cycle:** FASP

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**PSY 210 - Human Growth and Development - Lifespan**

**Credit Hour(s):** 3
Principles and practical applications of developmental psychology are emphasized in this study of development from conception through late adulthood and death. The following major developmental areas will be examined: physical, cognitive, and social-emotional. How environment and biology influence each of the above areas will also be explored.

*3 Credit(s).*

**Prerequisite(s):** PSY 201

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**PSY 211 - Human Growth and Development – Child and Adolescent**

**Credit Hour(s):** 3
Principles and practical applications of developmental psychology are emphasized in this study of children and adolescents as they grow in the following major areas: physical, cognitive, language, perceptual-motor, and social-emotional. How environment and biology influence each of the above areas will also be explored. *3 Credit(s).*

**Prerequisite(s):** PSY 201.

**Course Session Cycle:** FASP

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**PSY 212 - Human Growth and Development – Adulthood**

**Credit Hour(s):** 3
Principles and practical applications of developmental psychology are emphasized in this study of development from early adulthood through late adulthood and death. The following major developmental areas will be examined: physical, cognitive, and social-emotional. How environment and biology influence each of the above areas will also be explored. *3 Credit(s).*

**Prerequisite(s):** PSY 201.

**Course Session Cycle:** FASP

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**PSY 230 - Social Psychology**

**Credit Hour(s):** 3
A scientific investigation of the interaction between social stimuli and cognition and behavior of the individual. Topics will include attitude formation and change, conformity, leadership, interpersonal perceptions, persuasive communications, attribution processes, and group dynamics. *3 Credit(s).*

**Prerequisite(s):** PSY 201.

**Course Session Cycle:** FA

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**PSY 291 - Practicum and Child Development Lab**

**Credit Hour(s):** 1
This course includes a 20 hours service learning component where students will work with preschool age children at local placements and apply theories and concepts in child psychology. In addition to the 20 hour practicum, students will meet with the instructor one hour per week in a laboratory session to focus their practicum experiences on important theories and concepts. *1 Credit(s). 20 Service Hour(s).*

**Prerequisite(s):** PSY 201.

**Pre-/Corequisite(s):** PSY 211.

**Course Session Cycle:** FASP
PSY 297 - Professional Seminar: Introduction to Field of Psychology

Credit Hour(s): 1
This one-hour course (required of freshmen or sophomores) introduces the students to the expectations of a major in psychology at Ferrum College. Students will begin to map their careers through starting a portfolio, learning about and taking part in the faculty's research interests, and participating in community service. 1 Credit(s).

Course Session Cycle: FA

PSY 298 - Pre-Professional Placement

Credit Hour(s): 3
Designed to give students an opportunity to observe principles of psychology applied in practice in real-life settings. Students will be involved in a community setting observing psychologists, psychotherapists, social workers, personnel managers, behaviors analysts, parole officers, and counselors in their work. In weekly half-day sessions facilitated by faculty, students will report on their experiences and listen to other students' experiences. 3 Credit(s). 36 hours in field, 28 hours in classroom Service Hour(s).

Prerequisite(s): PSY 201 and permission of instructor.

Course Session Cycle: ET

PSY 299 - Field Experience

Credit Hour(s): 1-2
Designed to give students an opportunity to learn and practice observation and data collecting skills and to begin to apply the theories and principles they are learning in the classroom early in their psychology careers. Students will be involved in a variety of experiences in community settings or in research projects supervised by a psychology faculty member. 1-2 Credit(s).

Prerequisite(s): PSY 201 and permission of instructor.

Course Session Cycle: FASP

PSY 306 - Intro to Research Methods and Statistics

Credit Hour(s): 3
An introduction to research design in the field of psychology. This course will focus on basic research design and how to select, conduct, and interpret appropriate statistical analyses. 3 Credit(s).

Prerequisite(s): PSY 201 and MTH 107 or higher.

Course Session Cycle: SP

PSY 307 - Advanced Research Methods and Statistics

Credit Hour(s): 3
This course is a continuation of PSY 306 in the study of research design and theory. Students use information learned in PSY 306 and other courses to design, conduct, interpret, and present original research in the field of psychology. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher. PSY 306.

Course Session Cycle: FA

PSY 314 - Learning
Credit Hour(s): 3
Principles, theories, and issues in classical and instrumental conditioning; analysis of relationships between stimulus, response, reinforcement, punishment, and other motivational factors; some laboratory experience. 3 Credit(s).
Prerequisite(s): PSY 201.

Course Session Cycle: SP
Course Yearly Cycle: EVEN

PSY 320 - Abnormal Psychology

Credit Hour(s): 3
A survey of psychological disorders; classification, diagnosis, symptomatology, etiology, treatment, and theories of psychopathology. 3 Credit(s).
Prerequisite(s): PSY 201.
Course Session Cycle: FASP

PSY 325 - Psychopathology of Childhood

Credit Hour(s): 3
Examines the characteristics, causes, and treatments of abnormal behavior manifested by children from birth through adolescence. 3 Credit(s).
Prerequisite(s): PSY 201.
Course Session Cycle: FA

PSY 328 - Health Psychology

Credit Hour(s): 3
This course is designed to examine the interaction between psychological factors and physical health. The student will examine the role of behaviors that impact physical health (e.g., smoking, alcohol consumption, diet, and exercise); the role of psychological factors on physiology (e.g., changes in immune function) and physical illness (e.g., heart disease, stroke, and ulcers); and the role of psychology in the treatment of a variety of diseases (e.g., heart disease, cancer, and arthritis). 3 Credit(s).
Prerequisite(s): PSY 201.
Course Session Cycle: SP
Course Yearly Cycle: ODD

PSY 331 - Cognitive Development

Credit Hour(s): 3
Focuses on how we think and how we learn to think. It examines the patterns which define human cognition and describes how those patterns change during the life span. Several theories of cognitive development are considered and compared. Practical consideration is given to how information is processed through memory, attention and intelligence, how logical thinking matures; how we learn about space, time, and causality; and how our cognitions develop in social interaction. 3 Credit(s).
Prerequisite(s): PSY 201.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

PSY 332 - Cognitive Psychology

Credit Hour(s): 3
This course will cover all topics related to the process of thinking (such as memory, attention, language, problem
solving, etc.). 3 Credit(s).

**Prerequisite(s):** PSY 201.
**Course Session Cycle:** FA
**Course Yearly Cycle:** ODD

**PSY 333 - Biological Psychology**

**Credit Hour(s):** 3
This course is a study of the biological basis of normal and abnormal behavior, including sensory systems, brain and behavior relationships, and underlying neurochemical processes. 3 Credit(s).

**Prerequisite(s):** PSY 201.
**Course Session Cycle:** SP

**PSY 335 - Psychological and Educational Assessment**

**Credit Hour(s):** 3
Covers test construction, observation, interviewing, rating scales, personality inventories, intelligence tests, interest tests, and ability tests. 3 Credit(s).

**Prerequisite(s):** PSY 201.
**Course Session Cycle:** SP
**Course Yearly Cycle:** EVEN

**PSY 340 - Personality**

**Credit Hour(s):** 3
Introduces the psychology of personality and examines how personality theories are developed and used, how personality tests and measurements are established and evaluated, and how research about personality is carried out. Theory, research, testing, and especially practical applications are investigated. 3 Credit(s).

**Prerequisite(s):** PSY 201.
**Course Session Cycle:** SP
**Course Yearly Cycle:** EVEN

**PSY 345 - Sport Psychology**

**Credit Hour(s):** 3
An introduction to sport psychology, designed to examine psychological dimensions which influence skill acquisition and performance of an athlete in a competitive environment. 3 Credit(s).

**Prerequisite(s):** PSY 201 or PSY 211.
**Course Session Cycle:** SP
**Course Yearly Cycle:** ODD

**PSY 348 - Techniques of Counseling**

**Credit Hour(s):** 3
Develops critical skills in selecting and applying fundamental techniques of counseling. Discussions, demonstrations, and supervised experiences will provide opportunities for students to relate theoretical knowledge to the practical delivery of psychological services. Participants will learn to analyze client needs, to establish effective therapeutic alliances, and to formulate strategies for effective applications of psychological techniques in overcoming client problems. 3 Credit(s).

**Pre-/Corequisite(s):** PSY 320.
**Course Session Cycle:** FA
PSY 355 - Science of Sleep

Credit Hour(s): 3
This course will provide an overview of the anatomy and physiology of the central nervous system as it is related to sleep, explore the psychological and neurological impact of sleep deprivation on individuals, and engage students in research as they conduct a sleep experiment on themselves. 3 Credit(s).
Prerequisite(s): PSY 201 or BIO 111.
Course Session Cycle: ET

PSY 398 - Professional Seminar: Legal and Ethical Issues in Psychology

Credit Hour(s): 2
This two-hour course (required of second semester juniors) focuses on professional legal and ethical issues in psychology and will also introduce students to career planning within the field. 2 Credit(s).
Prerequisite(s): PSY 297.
Course Session Cycle: SP

PSY 438 - Topics in Psychology

Credit Hour(s): 3
Designed to acquaint students with important theories, events, and people in the development of contemporary psychology not covered in detail in regular course offerings. Specific topics will vary from term to term. 3 Credit(s).
Prerequisite(s): PSY 201. (Can be repeated up to 9 credits.)
Course Session Cycle: SP

PSY 450 - History and Systems of Psychology

Credit Hour(s): 3
A systematic critical overview of the development of psychology from its origins in philosophy and natural science through contemporary systems. The course emphasizes enduring issues, leading figures, major theoretical perspectives, and critical research methods and findings which have shaped the discipline, and acquaints participants with the history of psychology as an active research specialty. 3 Credit(s).
Prerequisite(s): PSY 201 and a total of 12 hours of psychology prior to enrollment.

PSY 496 - Directed Study in Psychology

Credit Hour(s): 1-2
Students are given the opportunity to research in depth a topic of their own interest under supervision of one of the psychology faculty. All projects must be approved by formal proposal and the contract prior to the beginning of the semester in which the course is taught. 1-2 Credit(s).
Prerequisite(s): PSY 307 or another research course with permission of the instructor.
Course Session Cycle: FASP

PSY 498 - Professional Seminar: Capstone Experience in Psychology

Credit Hour(s): 3
This senior psychology capstone course focuses on the science of psychology and integrating material from earlier psychology courses 498 with a project that is presented in front of the psychology program faculty and majors. In addition, students will complete a psychology portfolio that provides evidence of successful completion of each of the major learning outcomes. 3 Credit(s).
Prerequisite(s): PSY 398.
Course Session Cycle: SP

PSY 499 - Internship

Credit Hour(s): 3, 6 or 9
The psychology internship is a professional field experience for selected senior psychology majors. The student must qualify by gaining approval and recommendation of a psychology faculty member. This course has an additional fee. 3, 6 or 9 Credit(s). Credits depend on number of hours worked. Service Hour(s).
Course Session Cycle: FASP

Recreation Leadership

REC 103 - Backpacking and Hiking

Credit Hour(s): 1
This experiential course emphasizes basic knowledge and skill development in backpacking and hiking while emphasizing low impact techniques. In addition to regular classroom meetings, students will participate in day and weekend outings. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements.
Course Session Cycle: FASP

REC 104 - Rock Climbing and Rappelling

Credit Hour(s): 1
This experiential course emphasizes basic knowledge and skill development in rock climbing and rappelling. In addition to regular classroom meetings, students will participate in day and weekend outings. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements.
Course Session Cycle: FASP

REC 106 - Outdoor Water Sports

Credit Hour(s): 1
This experiential course emphasizes basic knowledge and skill development for the safe participation in outdoor water sports such as canoeing and kayaking. In addition to regular classroom meetings, students will participate in day and weekend outings. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements
Course Session Cycle: SP

REC 107 - Introduction to Fly Fishing

Credit Hour(s): 1
This experiential activity course is an introduction to the lifetime sport of fly fishing. The course presents to the student through classroom instruction and hands on field-based opportunities the many aspects of fly fishing. These students will be introduced to: casting, tactics, knots, equipment selection/care/use, basic fly tying, aquatic entomology, conservation and regulations. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements
Course Session Cycle: FASP
REC 108 - Trail Design and Construction

Credit Hour(s): 1
An introduction to trail building with an emphasis on long-term sustainability. Students will learn trail design, construction techniques and how to maintain existing trails. The course will include both classroom and hands-on practical experience. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements
Course Session Cycle: FASP

REC 109 - Outdoor Recreation Sampler

Credit Hour(s): 1
This activity course explores multiple outdoor recreation pursuits including rock climbing, canoeing, kayaking, orienteering, mountain biking, hiking, camping, and fly fishing. This introductory course emphasizes basic skills, proper use of equipment, and safety.

1 Credit(s). 2 Contact Hour(s).

This course meets an activity requirement.
Course Session Cycle: Fall and Spring

REC 139 - Orienteering

Credit Hour(s): 1
This experiential course emphasizes basic knowledge and skill development for the safe participation in orienteering. Orienteering is the art of navigating through an area with map and compass. The course introduces orienteering with emphasis on the activity as both a sport as well as an educational tool. 1 Credit(s). 2 Contact Hour(s).
Meets Activity Liberal Arts Requirements
Course Session Cycle: FA

REC 260 - Foundations of Recreation and Leisure

Credit Hour(s): 3
A study of recreation and leisure philosophies, concepts, and theories. Familiarizes the student with the various leisure service agencies and looks at the history and development of recreation and leisure as a profession. 3 Credit(s).
Meets Social Science Requirement.
Course Session Cycle: FASP

REC 270, 271 to 470, 471 - Recreation Practicum

Credit Hour(s): 1
Designed to allow students to obtain practical hands-on experience working in the recreation and leisure field. Students will be required to spend a minimum of 50 hours with an approved agency for the 1 credit hour. This course is required before Recreation Internship (REC 499) can be taken. 1 Credit(s).
Prerequisite(s): REC 260.

REC 319 - Recreation Delivery Systems

Credit Hour(s): 3
This course explores the intersection between governmental, community and commercial recreation delivery systems. By analyzing overarching philosophies, economic drivers and resulting recreation programs, students will align their
personal values with their professional vision. Special attention will be given to the role of partnerships toward accomplishing mutually beneficial outcomes. 3 Credit(s).

Course Session Cycle: SP
Course Yearly Cycle: EVEN

REC 325 - Wilderness Leadership I

Credit Hour(s): 3
An experiential approach to developing concepts and skills of planning, administering, and evaluating outdoor adventure recreation programs. Students will participate in backpacking, rock climbing, and rappelling, whitewater canoeing and rafting, initiative and ropes courses, wilderness survival, and other selected outdoor adventure activities. 3 Credit(s).

Course Session Cycle: FA
Course Yearly Cycle: EVEN

REC 329 - Foundations of Adventure Based Counseling

Credit Hour(s): 3
This course will cover the foundational concepts underlying adventure based counseling to include historical background, relevant social issues as well as basic professional planning and design methods necessary to assist diverse populations. (Cross-listed with SWK 329.) 3 Credit(s).

REC 341 - Program Planning and Leadership

Credit Hour(s): 3
This course is an overview of methods and structures used in recreation programs with emphasis on preparing recreation leaders to effectively address a variety of populations and settings. In addition, the course introduces and explores the theories of group and social dynamics and their effect on recreation programming. 3 Credit(s).

Course Session Cycle: SP
Course Yearly Cycle: EVEN

REC 343 - Facilitation of Adventure Pursuits

Credit Hour(s): 3
This course explores the methods and techniques used in processing adventure activities. Focus will be placed on the communication, ingenuity, trust, personal challenge and group dynamics that occur during adventure activities. The conscious use of front-loading, metaphors, and story lines will also be explored. 3 Credit(s).

Course Session Cycle: SP
Course Yearly Cycle: EVEN

REC 350 - Risk Management, Safety, and Legal Issues in Recreation Administration

Credit Hour(s): 3
A systematic investigation regarding current trends and court rulings in the area of athletics and recreation, with emphasis on common law. 3 Credit(s).

Course Session Cycle: FA

REC 360 - Recreation Leadership Theory and Philosophy
Credit Hour(s): 3
This course is a study of recreation leadership and leisure philosophies, concepts, and theories including play, liminality, freedom, wilderness, attention restoration theory, biophilia, risk, adventure, and others. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA

REC 361 - Outdoor Education

Credit Hour(s): 3
This course will examine the field of outdoor education and interpretation with particular attention to learning styles, learning theory and application, planning and implementation of lessons, and evaluation of programs for various participants in a variety of settings. Emphasis will be placed on experiential learning through a variety of media. 3 Credit(s).
Course Session Cycle: SP
Course Yearly Cycle: ODD

REC 372 - Eco-Adventure

Credit Hour(s): 3
This course is a hands-on ecotourism experience that provides a powerful case study of the relationship between ecotourism and its role in community development (i.e. Costa Rica). Specifically, students will participate in a variety of adventure and cultural activities that illustrate how tourism can promote local economic development, environmental conservation, and education. Students will be required to participate in meetings during the spring semester. 3 Credit(s).
Course Session Cycle: ET

REC 410 - Recreation Administration

Credit Hour(s): 3
Reviews the nature and meaning of recreation administration particularly as it relates to public recreation agencies.
Areas of concentration include management, organization, board and executive relations, personnel practices, fee structures, and office management. 3 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: ODD

REC 413 - Recreation Facility Planning, Development, and Maintenance

Credit Hour(s): 3
A systematic study of the strategies involved in planning and maintaining recreational and sports facilities. 3 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: EVEN

REC 440 - Recreation Seminar

Credit Hour(s): 3
Designed to synthesize the recreation and leisure student's classroom and practical experience. An emphasis will be placed on discussing current literature in recreation philosophy, new concepts and ideas, and future directions in recreation. Additional activities will include professional preparation techniques, invited speakers, and the planning of
an on-campus professional activity. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): ENG 102 with a grade of "C" or higher.

Course Session Cycle: SP

REC 450 - Special Events Planning and Management

Credit Hour(s): 3
Recreation and tourism professionals are increasingly becoming involved in major special events, conventions, fairs and exhibitions, and theatre arts productions. This course will deal with the intricacies of planning, conducting, and evaluating such events with special focus on: sponsorships; promotions; food, beverage, and lodging needs; transportation logistics; and the measuring of economic impact. 3 Credit(s).

Course Session Cycle: SP

REC 475 - Special Studies in Recreation and Leisure

Credit Hour(s): 1-3
An opportunity for students to become involved in research, studies of special interest, or practical experiences not available through other courses or internships. 1-3 Credit(s).

Prerequisite(s): REC 260.

REC 492 - Special Studies in Recreation and Leisure

Credit Hour(s): 1-3
An opportunity for students to become involved in research, studies of special interest, or practical experiences not available through other courses or internships. 1-3 Credit(s).

Prerequisite(s): REC 260.

REC 499 - Internship

Credit Hour(s): 4
The internship in Recreation and Leisure is a required off-campus work or volunteer experience in an approved leisure services agency. Agencies may be in the public, private, commercial, industrial, educational, church-related, therapeutic, or armed forces sectors. The internship experience must be a minimum of 400 hours and ten weeks. This course has an additional fee. 4 Credit(s). 400 Service Hour(s).

Prerequisite(s): REC 260.

Course Session Cycle: ANY

Religion

REL 111 - Literature of the Bible

Credit Hour(s): 3
An introductory survey of the entire Bible using the tools of modern scholarship to focus on the literature, history, and religious ideas of its people. The course will cover both the Old and New Testaments as continuous and interrelated scriptures within the Judeo-Christian tradition. (Students taking REL 111 will not receive credit for REL 112 or REL 113.) 3 Credit(s).
REL 112 - Literature of the Old Testament

Credit Hour(s): 3
An introductory examination of the Old Testament using tools of modern biblical scholarship for interpreting, understanding, and appreciating the origins, development, and structure of the literature of Israel. (Students taking REL 111 will not receive credit for REL 112 or REL 113.) 3 Credit(s).
Meets Bible-based Requirement.

REL 113 - Literature of the New Testament

Credit Hour(s): 3
A critical examination of the New Testament from the viewpoint of modern biblical scholarship. (Students taking REL 111 will not receive credit for REL 112 or 113.) 3 Credit(s).
Meets Bible-based Requirement.

REL 151 - World Religions

Credit Hour(s): 3
An introductory study of the origins, beliefs, and practices of the major religions of the world. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: FA

REL 207 - Selected Topics

Credit Hour(s): 3
A study of a selected religion or of issues and major themes within a single religious tradition or in a variety of religions. The topic under consideration varies from semester to semester according to periodic assessments of the needs and interests of students. Students may take only one 207 course as one of the two courses required to meet the general education requirement in religion. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.

REL 210 - American Gods

Credit Hour(s): 3
A survey of religious movements and phenomena in the United States, from the Revolutionary War until the present. 3 Credit(s).
This course meets religion/philosophy liberal arts core requirement.

REL 216 - Religion in Film

Credit Hour(s): 3
Examines the ways that religion is portrayed in film and the ways that various films present a view of human existence with a view toward understanding the ways that religion impinges upon our culture. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: SP
Course Yearly Cycle: EVEN
REL 222 - History of Christian Thought

Credit Hour(s): 3
A survey course tracing the development of Christian thought from the New Testament era to the present day by focusing on controversies and decisive moments in the history of Christianity. Special emphasis is given to emerging themes still present in the life of the church today. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: SP
Course Yearly Cycle: ODD

REL 245 - Religion and Public Life

Credit Hour(s): 3
In this course students will explore how religion impacts public life. Attention will be given to the role of religion in politics and public policy in the United States within the constitutional framework in a pluralistic society as well as in its engagement with the world. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

REL 251 - Interfaith Dialogue and Understanding

Credit Hour(s): 3
A study of religious literacy and different religious traditions with a view to developing dispositions and skills to participate in dialogue with adherents of different faith traditions. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: SP

REL 311 - Prophetic Literature of the Old Testament

Credit Hour(s): 3
Beginning with the prophetic movement in Israel and the place of the prophetic literature in the canon, this course will focus on the individual books of prophecy with regard to their cultural and historical contexts, their unique literary styles, the special circumstances that motivated their authors, and the primary themes of their messages. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Prerequisite(s): REL 111 or REL 112.

REL 315 - Studies in the Gospel

Credit Hour(s): 3
A detailed critical study of the four canonical gospels. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. REL 111 or REL 113.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

REL 316 - Life and Letters of Paul
Credit Hour(s): 3
A study of Acts and the letters of Paul. Acts is examined as a source for the life of Paul and the situation of the earliest Church, and the letters are used to trace the development of Pauline theology. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher. REL 111 or REL 113.
Course Session Cycle: SP
Course Yearly Cycle: ODD

REL 320 - Jesus and His Afterlives

Credit Hour(s): 3
A historical exploration of Jesus's evolution from a Jewish teacher in Galilee to a cultural icon and object of worship around the world. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: Fall
Course Yearly Cycle: Two Year Rotation

REL 331 - Christian Theology

Credit Hour(s): 3
A systematic study of the basic concepts of Christian theology from the historical, philosophical, and Biblical perspectives. Both the traditional formulations of Christian doctrine and the contributions of modern theologians are covered. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: FA
Course Yearly Cycle: ODD

REL 397, 398 or 399 - Ministry Practicum

Credit Hour(s): 1-3
This course is for students interested in pursuing a career in Christian ministry and is designed for them to have practical supervised experience working in a church or other public setting. It operates on the educational model of action/reflection. Prerequisites: 9 hours of REL coursework and program coordinator approval. (May earn a maximum of three credits.) 1-3 Credit(s). (One credit for every 100 hours worked.) Service Hour(s).
Prerequisite(s): 9 hours of REL coursework and program coordinator approval. May earn a maximum number of three credits.

REL 401 - Biblical Archaeology

Credit Hour(s): 3
Begins with the fundamentals of archaeological methods of locating, excavating, and dating. It introduces the student to some of the significant discoveries that have enhanced Biblical interpretation, and it examines important inscriptions found in neighboring Mid-Eastern cultures and compares them with the literature of the Bible. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
Course Session Cycle: FA
Course Yearly Cycle: EVEN
REL 481 or 482 - Seminar in Religious Studies

Credit Hour(s): 3
An intensive study of a particular topic in religion. The content of the course varies from semester to semester. The selection of the topic is made by the instructor and prospective enrollees during the semester prior to that in which the seminar is offered. 3 Credit(s).
Meets Non-Bible-based Religion/Philosophy Requirement.
These courses are designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.

REL 496 - Directed Study

Credit Hour(s): 1-3
This course offers students an option to conduct independent research in an area of interest to them under the guidance of faculty supervision. Students will develop and refine skills needed to conduct and convey research in the discipline, be exposed to literature in the field, write a paper following a style guide and conventions used in the discipline, and orally defend their research. 1-3 Credit(s).

Topics in Science

A series of courses designed to fulfill the Liberal Arts laboratory science requirement. Each 100-level class focuses on one main theme or issue which is of immediate relevancy to students in today's society. In order to understand these topics so that informed decisions can be made, students will learn necessary scientific principles, facts, and processes. By studying how knowledge about the subject has been developed students will learn to appreciate the strengths and weaknesses of the scientific approach. Social implications of scientific findings will be considered for the issues addressed. Class size limited to thirty students. Each 100-level class runs for half of a semester and carries two academic credits (three hours classroom, two hours laboratory).

SCI 101 - Introductory Interdisciplinary Science I

Credit Hour(s): 2
In this special topics course, the instructor takes an interdisciplinary approach to studying science within an applied context. Students will be introduced to basic concepts of science, scientific reasoning, and the scientific method as applied to a particular field of relevance. These courses have an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 102 - Introductory Interdisciplinary Science II

Credit Hour(s): 2
In this special topics course, the instructor takes an interdisciplinary approach to studying science within an applied context. Students will be introduced to basic concepts of science, scientific reasoning, and the scientific method as applied to a particular field of relevance. These courses have an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 121 - Population, Food, and Environment
Credit Hour(s): 2
Topics include human population, food production, and the environmental aspects of feeding and sheltering the human population. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

**SCI 122 - The Disintegrating Web: The Causes and Consequences of Extinction**

Credit Hour(s): 2
Introduces students to evolutionary and ecological concepts necessary to understand the causes and consequences of species extinctions and the global loss of biodiversity. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

**SCI 123 - Global Ecology and Climate Change**

Credit Hour(s): 2
Introduction to several areas of science necessary to understand the changes in the earth's climate. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

**SCI 124 - Plant Structure and Function: Edible Wild Plants**

Credit Hour(s): 2
Students will study plant diversity from the perspective of edible wild plants. Emphasis will be on identification and collection. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

**SCI 125 - Introduction to Natural History**

Credit Hour(s): 2
Introduction to the study of nature emphasizing the observation and identification of organisms from selected taxonomic groups. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

**SCI 126 - Natural Resource Conservation**

Credit Hour(s): 2
Surveys the natural resources which are useful and necessary to humankind. Utilization and conservation of natural resources including fossil fuels, soil, air, water, forests, and wildlife will be considered. Alternate energy sources, resource management, and environmental conservation will be discussed. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

**SCI 127 - Human Sexual Reproduction, Pregnancy, Development, and Birth**

Credit Hour(s): 2
An examination of the human reproduction process including the biology/physiology, diseases, infertility, contraception, abortion, and related issues. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.
SCI 128 - The Healthy Human Body

Credit Hour(s): 2
Covers topics of human health and diet, the relationship between what you consume and your general well-being, and the control of some illnesses by prescribed diets. Specific areas of study are the four food groups, vitamins and minerals, the anatomical and physiological process of digestion, and illnesses which result from inadequate nutritional foods in the diet, or ingestion of harmful substances. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 129 - The Diseased Human Body

Credit Hour(s): 2
Covers topics related to human disease. The causative agents of disease and their effects on organs and organ systems in the human body will be studied. Specific areas of study will be the symptoms, causative agent, epidemiological information, and treatment of a variety of diseases. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 130 - Plant Nutrition and Disease: Healthy Houseplants

Credit Hour(s): 2
Students will learn the basic principles of plant nutrition and control of disease problems through the growth and maintenance of healthy houseplants. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 132 - Fossils and Geologic Time

Credit Hour(s): 2
This course presents the different types of shelled and vertebrate fossils, their ecology, and evolutionary changes through geologic time. Students will use relative and absolute geologic history of rocks in southwest Virginia. Dinosaur classification, physiology, and extinction theories will be discussed. A four-hour Saturday field trip is required for the class. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 134 - Quarks and Atoms, Dark Matter and Black Holes

Credit Hour(s): 2
A non-technical inquiry into the nature of matter and the means by which we have developed our present view of matter. The course begins with a discussion of scientific inquiry and a brief history of chemistry from Democritus to Bohr. The remainder of the course introduces the quantum-mechanical view of matter. Students will consider the behavior of matter at various scales – from the familiar "human" scale where phenomena can be directly perceived by our senses to the quantum and cosmic scales where behavior can only be imagined based on indirect evidence. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 135 - Our Awesome Planet Earth

Credit Hour(s): 2
This course investigates the earth and the materials we obtain from it. Major rock forming minerals and their uses in society are discussed. Plate tectonic processes occurring in the course, mantle, and crust are investigated. Students will apply plate tectonic concepts to understand how the rocks and geologic structures in Franklin County formed. Landforms and the processes that form them will be presented. A four-hour Saturday field trip is required. This course
has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 136 - Chemistry in Our World

Credit Hour(s): 2
A study of chemistry as it relates to our world today. Topics include the atmosphere, fuels and fuel alternatives, acid rain, and the properties of water. Information is presented for the students to devise their own answers to many of the problems related to chemistry in our world today. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 137 - The Physics of Sports

Credit Hour(s): 2
Introduces the non-science major to the scientific principles behind many of our favorite sports. Discussions will include the science and aerodynamics of flying objects, the design of sports gear, the importance of form in sports, and the limitations placed on our games by the laws of physics. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 139 - The Amazing Universe

Credit Hour(s): 2
Man has always been interested in the heavens. This course will look at the history of that interest and where we are today in our knowledge of the universe. The birth and death of stars including our own sun will be discussed. New beliefs about the universe including black holes, dark matter, and the inflation theory will be presented. Time travel possibilities will be investigated. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 140 - DNA Fingerprinting and Genetic Engineering

Credit Hour(s): 2
Introduces DNA and the techniques employed to manipulate DNA. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 141 - Humans within Ecosystems: An Integration of Science and Humanities through Environmental Education

Credit Hour(s): 2
This course will introduce ecological principles, focusing primarily on diversity, change, and succession or resource cycling. Readings, class activities, and student projects will demonstrate the benefits of integrating science, the humanities, and the arts to educate children and the community about the environment. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s).
Meets 2 credits toward Natural Science Requirement.

SCI 143 - Our Home/Our Habitat

Credit Hour(s): 2
This course will introduce ecological principles, focusing primarily on habitat and homes. Readings, class activities,
and student projects will demonstrate the benefits of integrating science, the humanities, and the arts to educate children and the community about the environment. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s). Meets 2 credits toward Natural Science Requirement.

**SCI 144 - Science of Crime**

**Credit Hour(s):** 2  
This course investigates the scientific principles and techniques behind forensic criminal investigations. The techniques explored will include glass and plastic identification, hair and textile fiber identification, blood analysis, fingerprinting, ink and lipstick analysis, and DNA profiling. The final project will be a mock trial using evidence collected by students in the class. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s). Meets 2 credits toward Natural Science Requirement.

**SCI 145 - Bad Science in Movies**

**Credit Hour(s):** 2  
This course seeks to enhance the students' understanding of the physical world through the examination of the fantasy realms inhabited by Hollywood heroes and heroines. The goal is to study some of the fundamental principles of physical science through their (sometimes egregious) violations in popular film. This course has an additional fee. 2 Credit(s). 5 Contact Hour(s). Meets 2 credits toward Natural Science Requirement.

**SCI 190, 290, 390 or 490 - Special Topics**

**Credit Hour(s):** 1-4  
A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule. 1-4 Credit(s).

**SCI 201 - Intermediate Interdisciplinary Science**

**Credit Hour(s):** 4  
In this special topics course, the instructor takes an interdisciplinary approach to studying science within an applied context. Students will be introduced to basic concepts of science, scientific reasoning, and the scientific method as applied to a particular field of relevance and then asked to apply those concepts to slightly more advanced situations. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s). Meets 4 credits toward Natural Science Requirement.  
**Prerequisite(s):** MTH 105, MTH 107, MTH 111, MTH 112, MTH 203, MTH 211 or HON 205.

**SCI 215 - Science and Art**

**Credit Hour(s):** 4  
This is an interdisciplinary course designed as an introduction to the basic elements of general, analytical and organic chemistry using technical examination of artwork such as paintings, sculpture, glass-work and others. The course will place emphasis on teaching science, mainly chemistry, in context of proper examination, authentication and restoration of art objects; it also will address questions in history, religion and economics. The course is designed in a lecture/discussion/laboratory format, where students will view images of objects of arts, observe different techniques and view movies. The course will fulfill a science requirement for non-science majors and be an elective for Art majors. Understanding of science behind artworks will allow a profound appreciation of the wonderful world of art, and demonstrate its tight connection with science. 4 Credit(s). 6 Contact Hour(s). Meets 4 credits toward Natural Science Requirement.  
**Prerequisite(s):** MTH 100 or higher or HON 205.
SCI 244 - Introductory Forensic Science and Forensic Anthropology

Credit Hour(s): 4
This course investigates the scientific principles and techniques behind forensic criminal investigations. The techniques explored will include latent fingerprint detection and identification, blood analysis, hair and textile identification, and ink and handwriting analysis. The highlight of this course will be travel to the University of Tennessee for training in forensic anthropology and a visit to "The Body Farm." During the forensic anthropology training students will evaluate changes in human composition as a function of time and environmental circumstances, in order to appropriately establish reasonable approximations of cause and time of death. Students will also learn how to use skeletal remains to estimate age, stature, gender, and ancestry of deceased individuals. This course has an additional fee. 4 Credit(s). 77 Service Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): MTH 100 or higher.

SCI 250 - Physical Science

Credit Hour(s): 4
Laboratory-oriented course surveying fundamental topics in physical science. These topics include the scientific method, physical and chemical properties, magnetism, electricity, sound, light, motion, work, energy, simple machines, the solar system, classifications of matter, and phase diagrams. There is strong emphasis on mathematical relationships and statistical analysis of experimental results. This course has an additional fee. 4 Credit(s). 6 Contact Hour(s).
Meets 4 credits toward Natural Science Requirement.
Prerequisite(s): MTH 105, MTH 107, MTH 111, MTH 112, MTH 203, MTH 211 or HON 205.
Course Session Cycle: FA

Social Science

SSC 206 - APA Style Writing

Credit Hour(s): 2
This course is intended to help all individuals apply the basic rules of APA Style in writing term papers, research reports, and journal articles. The course follows the organization of the latest edition of the Publication Manual, providing a comprehensive overview of elements of manuscript preparation.

2 Credit(s). 3 Contact Hour(s).
Course Session Cycle: FASP

SSC 251 - Introduction to Social Science Research

Credit Hour(s): 3
Students will learn the basics of social science research, including a broad array of research methodologies. At the end of the course, students will have completed a research design that can be used in upper level research courses. 3 Credit(s).
Prerequisite(s): Any course that satisfies the mathematics Liberal Arts requirement (MTH 105, MTH 107, MTH 111, MTH 112, MTH 203, or MTH 211).

SSC 290 - Stewardship toward Sustainability Immersion

Credit Hour(s): 3
This course will cover deep ecology principles, ecopsychology, and environmental ethics while fostering a full
examination of the student's ecological self in relation to his/her bioregion. This course is intended to help the student connect in deep and meaningful ways with the natural environment through a variety of intensive immersion experiences. 3 Credit(s).

**SSC 301 - Social Entrepreneurial Leadership**

**Credit Hour(s): 3**
A fundamental course on organizations that have been designed to meet social needs. The course will address the growing importance of such organizations in our economy in producing jobs while fulfilling basic needs not met by the government or the market place. Areas to be covered include the importance of creating a vision, providing effective leadership, and managing for results rather than profit. 3 Credit(s).
**Prerequisite(s):** ENG 102 with a grade of "C" or higher. Sophomore Status or above.

**SSC 465 - Quantitative Data Analysis**

**Credit Hour(s): 3**
This experiential course is a follow up course for students who have taken any research class where quantitative data was collected. SSC 465 will introduce students to computer software in common use for examining quantitative data in the Social Sciences. Students will examine and analyze previously collected data using appropriate methods with this software. Students will be required to analyze, make a written report, and make a presentation on their data.
**Prerequisites:** Research class where students have collected quantitative data suitable for use by the analysis software, and permission of the instructor. 3 Credit(s).

**SSC 490 - Stewardship toward Sustainability Capstone Seminar**

**Credit Hour(s): 3**
This course synthesizes concepts of stewardship and sustainability with the student's major and Liberal Arts courses. Through class discussion, review of current literature, and the crafting and delivery of a culminating paper or project, this course promotes critical thinking related to our human/nature relationship and potential changes needed to accomplish a truly sustainable future. 3 Credit(s).
**Prerequisite(s):** SSC 290 and completion of at least 20 credits within the certificate program; ENG 102 with a grade of "C" or higher.

**Social Work**

**SWK 201 - Introduction to Social Work**

**Credit Hour(s): 3**
An introduction to the social work profession and its role within the field of social welfare. The course includes presentations of models of practice, and historical and philosophical developments of the social work profession in the United States and around the world. 3 Credit(s).
**Course Session Cycle:** FASP

**SWK 297 - Professional Preparation Seminar I**

**Credit Hour(s): 1**
This course introduces the students to the expectations of the Social Work major at Ferrum College. Students will be
introduced to the details of the Social Work Code of Ethics and Professional Standards; CSWE required competencies with related review of Social Work Major courses, professional behaviors and GPA requirements; and preparation for admission to the SWK major (application and interview). 1 Credit(s).

Prerequisite(s): SWK 201 and ENG 102 (both with minimum of C) and overall GPA requirement of 2.2.

Course Session Cycle: FA

SWK 299 - Introduction to Community Service

Credit Hour(s): 3
Participation in a structured community setting including 75 hours of volunteer service within the local social welfare delivery system. Classroom seminar accompanies this initial experience in the field. 3 Credit(s). 75 Service Hour(s).

Prerequisite(s): ENG 102 (with a "C" or higher). Accepted majors only; see formal acceptance process.

Course Session Cycle: FA

SWK 305 - Social Work Practice I

Credit Hour(s): 3
The first course in a three-semester course sequence within which an introduction to generalist social work practice, purpose, theory, values, and methods are taught. The course focus is on the generalist process for helping individuals solve problems in living. 3 Credit(s).

Prerequisite(s): SWK 201, SWK 297, and additional major requirements. Accepted majors only; see formal acceptance process.

Course Session Cycle: SP


Credit Hour(s): 3
The first course of a two-part policy sequence designed to provide an introduction to the understanding and appraisal of social welfare policies and programs in the U.S., and the historical and contemporary forces – political, social, and economic – that have shaped their development. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

Prerequisite(s): SWK 201, and students who are designated as SWK minors or accepted majors only; see formal acceptance process; ENG 102 with a grade of "C" or higher. SWK 201 and students who are designated as SWK minors or accepted majors only; see formal acceptance process.

Course Session Cycle: FA

SWK 321 - Social Welfare Policy: Analysis, Formulation, and Implementation

Credit Hour(s): 3
The second course of a two-part policy sequence designed to initiate problem-focused analysis of current welfare policies and programs, and of those sociopolitical factors that influence their development. 3 Credit(s).

Prerequisite(s): SWK 320 with a grade of "C" or higher; majors only; see formal acceptance process.

Course Session Cycle: SP

SWK 329 - Foundations of Adventure Based Counseling

Credit Hour(s): 3
This course will cover the foundational concepts underlying adventure based counseling to include historical
background, relevant social issues as well as basic professional planning and design methods necessary to assist diverse populations. (Cross-listed with REC 329.) 3 Credit(s).

**SWK 330 - Human Behavior and the Social Environment**

*Credit Hour(s): 3*

Course content is organized around the developmental tasks of each life stage with attention given to the focus of the social work profession on the entire life cycle. Emphasis is on theories that provide the knowledge base for practice. 3 Credit(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.

**Prerequisite(s):** ENG 102 with a grade of "C" or higher. PSY 211 or PSY 212 and students who are designated as SWK minors or accepted majors only; see formal acceptance process.

**Course Session Cycle:** SP

**SWK 350 - Substance Abuse: Interventive Techniques**

*Credit Hour(s): 3*

Designed to provide students with knowledge about substance abuse and its impact on individuals, families, and communities. Models of social work practice appropriate to cases of substance abuse will be presented. Attention will be given to the cooperation between agency and community in prevention and treatment of substance abuse. 3 Credit(s).

**Course Session Cycle:** FA

**SWK 355 - Child Welfare Systems and Services**

*Credit Hour(s): 3*

This course will review the history of child welfare systems and services in the United States. The nature and delivery of child welfare services through public and private child welfare organizations will be scrutinized. Current legislative activity as well as the role of courts will be examined. The course is intended to examine the function and responsibilities of diverse professionals and thus is appropriate for students in various social science majors. 3 Credit(s).

**Prerequisite(s):** PSC 101 or PSY 201 or SOC 202.

**Course Session Cycle:** SP

**Course Yearly Cycle:** ODD

**SWK 397 - Professional Preparation Seminar II**

*Credit Hour(s): 1*

This course introduces students to the many career opportunities in social work through field agency visits and speakers; focuses on preparation for senior field practicum: requirements/paperwork process (criminal background check, etc.), resume update, review of placement options, interview prep and mock interviews, official agency interviews along with finalization of placement, and development of a learning contract with agency. 1 Credit(s).

**Prerequisite(s):** Formal acceptance into the Social Work major, SWK 305, SWK 320; concurrent with SWK 321 and SWK 330.

**Course Session Cycle:** SP

**SWK 405 - Social Work Practice II**
Credit Hour(s): 3
The second course of a three-semester course sequence within which the foundations of social work practice with groups and with families are taught. This course is designed to enable the future generalist practitioner to meet the challenge of social work practice with groups and families. A community task group assignment will be conducted in conjunction with the student's senior field practicum site. 3 Credit(s).
Prerequisite(s): SWK 305, SWK 320, SWK 321 and SWK 330. Required concurrent with: SWK 410, SWK 497, SWK 489 and SOC 470.
Course Session Cycle: FA

SWK 410 - Social Work Practice III

Credit Hour(s): 3
The third course of a three-semester course continuum which offers an opportunity for advanced study for the generalist practitioner. Theory and practice skills on a macro level are emphasized. Creative interventions with community systems are explored. Concepts of social work administration are presented in depth. A community or organizational project will be assigned in conjunction with the student's senior field practicum site. 3 Credit(s).
Prerequisite(s): SWK 305, SWK 320, SWK 321 and SWK 330. Required concurrent: SWK 405, SWK 497, SWK 489, and SOC 470.
Course Session Cycle: FA

SWK 441 - Applied Social Work Research

Credit Hour(s): 3
A research seminar designed to enable the student to develop a research proposal and to analyze and interpret data with applications for use in the field of social welfare. 3 Credit(s).
Prerequisite(s): SOC 470 or PSY 306.

SWK 450 - Topics in Social Work

Credit Hour(s): 3
An elective seminar designed to connect students with important theories, events, and people in the development of contemporary social work not covered in detail in regular course offerings. Specific topics will vary from term to term. 3 Credit(s).
Prerequisite(s): SWK 201.

SWK 489 - Senior Field Practicum and Seminar I

Credit Hour(s): 3
The first of two parts of the senior field experience will be an introduction to the agency in which the student will spend two semesters. The agency experience will be supervised by a faculty liaison and a field instructor who has earned the MSW degree. Field placements are developed to fit the students' career objectives. During this Fall semester senior experience the student will be in the agency for at least 75 hours along with a one hour weekly classroom seminar. The student will have the opportunity to be fully oriented to the agency's services in preparation for more concentrated hours in the second practicum during spring semester. The agency will also provide the setting for the senior student to implement course projects for two required practice courses and the research course. 3 Credit(s), 75 Service Hour(s).
Prerequisite(s): SWK 305, SWK 321, SWK 330, SWK 397; concurrent with: SWK 405, SWK 410, SWK 497, and SOC 470.
Course Session Cycle: FA

SWK 497 - Professional Preparation Seminar III
Credit Hour(s): 1
An in-depth review of the Senior Portfolio requirements (both format and content); detailed discussion of the ten major competencies and practice behaviors along with beginning compilation of prior work and self-assessment. 1 Credit(s).
Prerequisite(s): SWK 305, SWK 321 and SWK 330; concurrent with SWK 405, SWK 410, SWK 489 and SOC 470.
Course Session Cycle: FA

SWK 498 - Social Work Senior Capstone

Credit Hour(s): 3
Taken concurrently with SWK 499 - Field Practicum and Seminar II, this capstone course requires the senior student to apply critical thinking and synthesis skills, using generalist practice experiences acquired in the field as well as knowledge, theories, research and values learned throughout their college coursework, to demonstrate learning related to the Social Work Program's Ten Competencies, as required by the Council on Social Work Education. The course will culminate in a formal PowerPoint presentation to external social work agency evaluators who will critique and provide written as well as oral feedback. 3 Credit(s).
Prerequisite(s): All SWK major course requirements; concurrent with SWK 499.
Course Session Cycle: SP

SWK 499 - Field Practicum and Seminar II

Credit Hour(s): 9
A 400-hour (13 ½ week) agency experience supervised by a faculty liaison and a field instructor who has earned the MSW degree. Field placements are developed to fit the students' career objectives. This course includes a weekly 2 hr. seminar which may be held on agency site or on campus. 9 Credit(s). 400 Service Hour(s).
Prerequisite(s): All SWK major requirements and concurrent with SWK 498.
Course Session Cycle: SP

Sociology

SOC 101 - General Sociology

Credit Hour(s): 3
This course enables students to conceptualize the social world and their role in it through application of sociological terminology and theory. 3 Credit(s).
Meets Social Science Requirement.
Course Session Cycle: FASP

SOC 202 - Social Problems

Credit Hour(s): 3
Through a sociological lens this course will examine societal issues, social structures and human responses within the context of community, nation and world. Through the practical application of critical thinking students will develop an understanding of global phenomenon and barriers that people face, their causes, and social solutions. 3 Credit(s).
Meets Social Science Requirement.
Course Session Cycle: FASP

SOC 203 - Sociology of U.S. Cultural Diversity

Credit Hour(s): 3
This course examines the social significance of racial-ethnic minorities in the United States, including Latino
American, Asian American, African American, Native American Indian, with special emphasis on cultural diversity within the Appalachian region. Topics examined include cultural values, contributions, and pride; prejudice and discrimination, legal redress and societal change; mobility and status; immigration, assimilation, segregation, population transfer, genocide and pluralism. 3 Credit(s).

Meets Social Science Requirement.

Course Session Cycle: FASP

SOC 204 - Sociology of Sport

Credit Hour(s): 3
A course designed to introduce students to the study of sport as a social institution which influences people of all ages through personal involvement, community involvement, and media accounts of national and international activities. Topics covered in this course will include: cultural, economic, and political influence in sports; issues of deviance, gender, race, ethnicity, class, and physical and mental challenges as related to sport; and a sociological examination of recreational, interscholastic, intercollegiate, amateur, professional, and Olympic sports. 3 Credit(s).

SOC 205 - Marriage and the Family

Credit Hour(s): 3
This course examines family as a basic unit of human socialization. Topics addressed include cultural variations on the formation and dissolution of committed partnerships of all forms, including processes and structures of parenting, courtship, relationship discord, marriage, civil unions, separation, and divorce. 3 Credit(s).

Course Session Cycle: FA
Course Yearly Cycle: ODD

SOC 207 - Sociology of Sex and Gender Roles

Credit Hour(s): 3
A sociological examination of sex and gender roles as they are influenced by cultural traditions and transformation. This course explores theories and perspectives on sex, gender, and gender identity, with emphasis on the socialization process, influence of societal institutions, and practical applications. 3 Credit(s).

Course Session Cycle: FA
Course Yearly Cycle: EVEN

SOC 301 - Classical Social Theory

Credit Hour(s): 3
This course provides an opportunity to explore the works of four major contributors to the foundations of social thought. Students engage with the principles and perspectives of Durkheim, Weber, Marx and G.H. Mead and critically reflect on the implications of these works to the current social environment. 3 Credit(s).

Prerequisite(s): SOC 101.

SOC 303 - Cultural Diversity Applications in Schools and Society

Credit Hour(s): 3
Students will integrate knowledge from the disciplines of sociology, education, and related fields to develop a deeper understanding of diversity issues and multi-cultural applications in schools and society today. 3 Credit(s).

Prerequisite(s): Sophomore standing.
Course Session Cycle: SP
Course Yearly Cycle: ODD
SOC 310 - Social Class and Inequality

Credit Hour(s): 3
An examination of the major sociological perspectives concerning social stratification and structural inequality. Various issues pertaining to social mobility, power, poverty, lifestyles, and socioeconomic status will also be discussed. 3 Credit(s).
Prerequisite(s): SOC 101.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

SOC 320 - Deviance and Social Control

Credit Hour(s): 3
An examination of deviance, norms, and the various sociological theories of deviant behavior. An emphasis upon the relationship of deviance to criminal behavior, as well as the social control mechanisms and our economic system. Deterrence and various types of deviant behavior will be explored. (Cross-listed with CJU 320.) 3 Credit(s).
Prerequisite(s): SOC 101 or SOC 202.

SOC 330 - Organizations and Behavior

Credit Hour(s): 3
An examination of the sociological theories and perspectives of professional, civic and other complex organizations. The course explores issues concerning work and the economic system, bureaucratic and cooperative processes and structures, formation of networks, and the influences that individuals and organizations have upon each other. 3 Credit(s).
Prerequisite(s): SOC 101.

SOC 333 - Population Dynamics

Credit Hour(s): 3
This course introduces trend analysis in the study of demography by examining changes in birth, death and redistribution of populations. In recognition of the interconnectedness in human-resource utilization influenced by the dynamic changes in the growth, decline and relocation of population masses around the globe, this course will allow students to develop a broader perspective by exploring the causes and consequences of demographic policy implications. Students will use elementary equation analysis to explain these differences in social contexts. 3 Credit(s).
Prerequisite(s): MTH 107 or MTH 111 and SOC 101 or SOC 202.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

SOC 340 - Collective Behavior and Social Movements

Credit Hour(s): 3
Examines the theories, issues, and responses of individuals, groups, and social institutions in times of societal transformation or crisis. A number of historical social movements, as well as the typologies and stages of their formation will also be examined. 3 Credit(s).
Prerequisite(s): SOC 101.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

SOC 370 - Introduction to Field Based Case Study Research
Introduction to Field Based Case Study Research is intended for the student entering a social work field placement or some other community based internship and interested in designing a qualitative case study within a specific context. This course offers an introduction to the phenomenological approach to research and skill sets to ensure that the topic of interest is well explored, and that the essence of the phenomenon is revealed from personal experience of others. 3 Credit(s).

Course Session Cycle: FA

SOC 391 - Directed Study in Sociology

Credit Hour(s): 1-3
A structured opportunity for students to apply sociological terminology and theory to a research topic, social policy issue, or practical experience that is particularly suited to students' interests. 1-3 Credit(s).
Prerequisite(s): SOC 101, or SOC 202 or SOC 203.
Course Session Cycle: FA

SOC 392 - Eco-Social Justice: Issues and Applications

Credit Hour(s): 3
In this course students will examine social inequalities related to environmental issues and explore social movements and paths for individual and community action to address them. (Cross-listed with EPD 392.) 3 Credit(s).
Prerequisite(s): Sophomore standing.
Course Session Cycle: ET
Course Yearly Cycle: ODD

SOC 401 - Survey of Modern Era Social Theory

Credit Hour(s): 3
This course provides students an opportunity to read, discuss, critique and apply the works of renowned modern and post-modern social theorists. Readings for this course will be taken from publications on Positivism, Role Theory, Dramaturgy, Phenomenology, Feminism, Rational Choice, Scholar Activism, Identity Theory, World Systems Theory, Action Theory, and Critical Discourse. 3 Credit(s).
Prerequisite(s): SOC 101.

SOC 450 - Changing Roles in the Life Course

Credit Hour(s): 3
A course designed for the study of changing social roles over the life course. The course will include comparison of age specific roles in differing populations around the world with emphasis on aging in U.S. culture and the acceptance of varying social norms at different life stages. Experiential learning activities will focus on student interaction with community elders during team interaction and oral history collection. Student production of an abbreviated autobiographical collection of personal history for each cooperating elder will be developed using multi-media. 3 Credit(s).
Prerequisite(s): SOC 101 or SOC 202 and junior designation.
Course Session Cycle: ET
Course Yearly Cycle: EVEN

SOC 470 - Social Sciences Research

Credit Hour(s): 3
This is a capstone experiential course in the process and practice of research in the social sciences. In recognition of the
interconnectedness of the social research world, this course may fill the research and writing intensive course requirements for multiple disciplines. The interdisciplinary approach of this course allows students to gain broader research experience with special consideration of the professional ethics involved when dealing with human research subjects. This course emphasizes the developmental stages required by fielding research projects and writing grant funding proposals, with a focus on the intersection of research design and applied theory. The laboratory portion of this course stresses the practical hands-on aspects of collecting and computer-aided analysis of primary and secondary data resources. 3 Credit(s). 5 Contact Hour(s).

This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course. 

Prerequisite(s): ENG 102 with a grade of "C" or higher and SOC 370.

Course Session Cycle: FA

Spanish

Placement: If a student has had more experience with the Spanish language than what is considered typical for the course (including native speakers and heritage speakers, e.g., individuals who have grown up speaking a language other than or in addition to English), that student will be required to meet with the Program Coordinator for a language assessment in order to determine the appropriate level of course for that student. The assessment consists of a verbal interview in which progressively more advanced linguistic structures are used. If a student does well in this interview, he or she may be asked to write a short essay in order to determine his/her writing level. This method is consistent with the American Council on the Teaching of Foreign Languages (ACTFL). No student may remain in a course for which the faculty member deems him/her to be too advanced based on the previously explained procedure.

SPA 101 - Elementary Spanish I

Credit Hour(s): 3
A study of Spanish grammar, pronunciation, and vocabulary. The course includes practice in speaking, reading, and writing the Spanish language and an introduction to Hispanic cultures. One hour language lab (SPA 121) must be taken concurrently.

3 Credit(s).

Corequisite(s): This course is taken concurrently with SPA 121.
Course Session Cycle: FA

SPA 102 - Elementary Spanish II

Credit Hour(s): 3
A study of Spanish grammar, pronunciation, and vocabulary. The course includes practice in speaking, reading, and writing the Spanish language and an introduction to Hispanic cultures. One hour language lab (SPA 122) must be taken concurrently.

3 Credit(s).

Prerequisite(s): SPA 101 with a grade of "C" or higher.
Corequisite(s): This course is taken concurrently with SPA 122.
Course Session Cycle: SP

SPA 121 - Introductory Language Lab I
Credit Hour(s): 1
This course will focus on oral communication to improve fluidity when speaking in the target language.

1 Credit(s).

Corequisite(s): This course is taken concurrently with SPA 101.

Course Session Cycle: Fall
Course Yearly Cycle: Every

SPA 122 - Introductory Language Lab II

Credit Hour(s): 1
This course will focus on oral communication to improve fluidity when speaking in the target language.

1 Credit(s).

Prerequisite(s): Complete SPA 121 with a grade of "C" or higher.
Corequisite(s): This course is taken concurrently with SPA 102.

Course Session Cycle: Spring
Course Yearly Cycle: Every

SPA 201 - Intercultural Competence Through Language I

Credit Hour(s): 3
A study of Spanish grammar, pronunciation, and vocabulary. The course includes practice in speaking, reading, and writing the Spanish language and an introduction to Hispanic cultures. One hour language lab must be taken concurrently (SPA 121 with SPA 101).

3 Credit(s).

Prerequisite(s): SPA 102 or equivalent with a grade of "C" or higher.
Corequisite(s): This course is taken concurrently with SPA 221.

Course Session Cycle: FA

SPA 202 - Intermediate Language and Culture II

Credit Hour(s): 3
A study of Spanish grammar, pronunciation, and vocabulary. The course includes practice in speaking, reading, and writing the Spanish language and an introduction to Hispanic cultures. One hour language lab must be taken concurrently (SPA 222).

3 Credit(s).

Prerequisite(s): SPA 201 with a grade of "C" or higher.
Corequisite(s): This course is taken concurrently with SPA 222.

Course Session Cycle: SP

SPA 221 - Intermediate Language Lab I

Credit Hour(s): 1
This course will focus on oral communication to improve fluidity when speaking in the target language.
1 Credit(s).

Corequisite(s): This course is taken concurrently with SPA 201.
Course Session Cycle: Fall
Course Yearly Cycle: Every

SPA 222 - Intermediate Language Lab II

Credit Hour(s): 1
This course will focus on oral communication to improve fluidity when speaking in the target language.

1 Credit(s).

Prerequisite(s): Complete SPA 221 with a grade of "C" or higher.
Corequisite(s): This course is taken concurrently with SPA 202.
Course Session Cycle: Spring
Course Yearly Cycle: Every

SPA 250 - Special Topics in Hispanic Culture

Credit Hour(s): 3
A study of a particular aspect (rotates each year) of Hispanic Culture through written word, visual art, music, and other forms of cultural expression. Taught in English.

3 Credit(s).

SPA 299 - Latino Communities in the U.S.

Credit Hour(s): 3
A study of the Latino communities of the United States through diverse forms of cultural expression including music, visual art, written word, and mass media. Taught in English. 3 Credit(s). One credit hour will come from a Spring Break experiential trip. Contact Hour(s).
Prerequisite(s): ENG 101
Course Session Cycle: Spring

SPA 301 - Advanced Grammar and Composition

Credit Hour(s): 3
This course will further develop grammar, vocabulary, speaking and listening, with a special focus on reading and writing skills. Students will use readings of current events and historical materials as topics for discussion and writing. Taught in Spanish. 3 Credit(s).
Prerequisite(s): SPA 202 with a grade of "C" or higher.
Course Session Cycle: FA

SPA 302 - Advanced Speaking and Comprehension

Credit Hour(s): 3
A study of advanced composition, conversation, and phonetics in Spanish. This course uses analysis of various films to facilitate language development and a broader understanding of cultural topics. Literary or journalistic texts may be used to study grammar. Course may be directed in vocabulary and content to support areas of interest in the student's
SPA 311 - Spanish for the Professions

Credit Hour(s): 3
Prepares the advanced student for careers involving Spanish and for travel or residence in Spanish-speaking countries, with emphasis on fluency in the spoken language and proficiency in written Spanish. Taught in Spanish.
Prerequisite(s): Any previous 300-level Spanish course with a grade of "C" or higher.

SPA 320 - Introduction to Literature in Spanish

Credit Hour(s): 3
An introduction to selected readings in Spanish with an emphasis on becoming familiar with various genres and periods of Hispanic literature and the methods used in literary analysis. The course is conducted in Spanish with emphasis on oral and written expression by the student. Taught in Spanish. 3 Credit(s).
Prerequisite(s): SPA 301 or SPA 302.

SPA 325 - Spanish Civilization & Culture

Credit Hour(s): 3
A study of Spanish civilization and culture as depicted in its art, geography, history, and literature. Taught in Spanish. 3 Credit(s).
Prerequisite(s): SPA 202 with a grade of "C" or higher, or any 300-level Spanish course or placement.

SPA 326 - Latin American Civilization & Culture

Credit Hour(s): 3
A study of Latin American civilizations and cultures as depicted in art, geography, history, and literature. Taught in Spanish. 3 Credit(s).
Prerequisite(s): SPA 202 or equivalent or any 300-level Spanish course.

SPA 351 - Spanish Conversation Circle I

Credit Hour(s): 1
An opportunity for concentrated practice in the spoken language. Taught in Spanish. (Note: 200-level students with a strong foundation in the language are encouraged to petition to enroll in the Conversation Circle.) 1 Credit(s).
Prerequisite(s): SPA 202 or equivalent or any 300-level Spanish course.

SPA 352 - Spanish Conversation Circle II

Credit Hour(s): 1
An opportunity for concentrated practice in the spoken language. Taught in Spanish. (Note: 200-level students with a strong foundation in the language are encouraged to petition to enroll in the Conversation Circle.) 1 Credit(s).
Prerequisite(s): SPA 202 or equivalent or any 300-level Spanish course.
SPA 353 - Spanish Conversation Circle III

Credit Hour(s): 1
An opportunity for concentrated practice in the spoken language. Taught in Spanish. (Note: 200-level students with a strong foundation in the language are encouraged to petition to enroll in the Conversation Circle.) 1 Credit(s).
Prerequisite(s): SPA 202 or equivalent or any 300-level Spanish course.
Course Session Cycle: SP

SPA 354 - Spanish Conversation Circle IV

Credit Hour(s): 1
An opportunity for concentrated practice in the spoken language. Taught in Spanish. (Note: 200-level students with a strong foundation in the language are encouraged to petition to enroll in the Conversation Circle.) 1 Credit(s).
Prerequisite(s): SPA 202 or equivalent or any 300-level Spanish course.
Course Session Cycle: SP

SPA 403 - Special Topics in Hispanic Culture

Credit Hour(s): 3
An exploration of the short story in Spanish with an emphasis on historical trends within the genre. This course will strengthen the students' ability with literary analysis and their Spanish language skills. Taught in Spanish. 3 Credit(s).
This course meets the Literature Liberal Arts Requirement.
Prerequisite(s): Any previous 300-level Spanish course with a grade of "C" or higher.

SPA 404 - Selected Topics in Hispanic Literature

Credit Hour(s): 3
A careful study of a selected topic in the literatures of the various countries where Spanish is spoken. Taught in Spanish. 3 Credit(s).
This course meets the Literature Liberal Arts Requirement.
Prerequisite(s): Any previous 300-level Spanish course with a grade of "C" or higher.

SPA 451 or 452 - Directed Study

Credit Hour(s): 3
An advanced directed study of an aspect of Spanish language or Hispanic literature or culture particularly suited to the student's interests. Normally taught on an independent study basis, but may be offered as a seminar on demand. Taught in Spanish. 3 Credit(s).
Prerequisite(s): Two courses at the 300-level or above.

SPA 453 - Directed Study

Credit Hour(s): 3
An advanced directed study of an aspect of Spanish language or Hispanic literature or culture particularly suited to the student's interests. Normally taught on an independent study basis, but may be offered as a seminar on demand. Taught in Spanish.
3 Credit(s).
Prerequisite(s): Two courses at the 300-level or above.
SPA 454 - Directed Study

Credit Hour(s): 3
An advanced directed study of an aspect of Spanish language or Hispanic literature or culture particularly suited to the student's interests. Normally taught on an independent study basis, but may be offered as a seminar on demand. Taught in Spanish.

3 Credit(s).
Prerequisite(s): Two courses at the 300-level or above.

SPA 498 - Senior Thesis

Credit Hour(s): 3
This is a research-based capstone course, and must be taken in the senior year. Students will choose a research topic based on a cultural, historical, or literary topic of interest to them, based on research done for a previous Spanish course. Working closely with a faculty advisor, students will examine and evaluate their own work and identify strengths and weaknesses in order to expand their prior research into a longer, more in-depth project. They will focus on stating a clear thesis, formulating an argument, identifying and appropriately employing sources, and writing clearly and correctly in Spanish. As a culminating part of this process, students will have a public presentation of their work. 3 Credit(s).
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): Senior status and a declared Spanish major. Students must complete this course with a "C" or higher in order to complete the Spanish major.

SPA 499 - Internship

Credit Hour(s): 3
The internship in Spanish can be taken on campus or off. Many internships in Spanish are taken as part of a Study Abroad experience. Internships involve work or volunteer experience through an approved organization or as a supervised on-campus project, and must be pre-approved by the supervising Spanish faculty member and the Dean. 3 Credit(s). The internship experience must be a minimum of 400 hours and ten weeks. Contact Hour(s).
Prerequisite(s): Junior standing and approval of the supervising faculty member and the Dean.

Special Education

SPD 220 - Survey of Exceptional and Special Education

Credit Hour(s): 3
This survey course is designed to guide students in developing a basic understanding of a broad array of exceptionalities and disabilities as well as educational services provided for those groups. The focus is on populations with disabilities whose educational rights are protected in public schools through IDEA, and other disabilities and exceptionalities commonly encountered in educational settings. Collaboration among general education and special education teachers, education support personnel, community agencies and families is essential for meeting the needs of children and adolescents with exceptionalities; this course is designed to help those factions develop a base of knowledge that will allow them to engage in providing positive and supportive environments for special populations. Students also complete a 40 hour internship in an assigned placement as part of this course. 3 Credit(s). 40 Service Hour(s).
Study Away

SAB 250 - Study Abroad

Credit Hour(s): 1-6
An international travel, study, and/or work experience, sponsored or led by a Ferrum College faculty member. Credits depend on length and nature of experience. 1-6 Credit(s).

SAB 350 - Study Abroad

Credit Hour(s): 1-6
An international travel, study, and/or work experience, sponsored or led by a Ferrum College faculty member. Credits depend on length and nature of experience. 1-6 Credit(s).

Theatre Arts

THA 100 - Theatre Appreciation

Credit Hour(s): 3
A survey of the basic principles of live theatre performance for both drama students and non-majors. It discusses theatre history, literature, and the principles of production. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: FASP

THA 111 - Fundamentals of Acting I

Credit Hour(s): 3
Students study improvisation and body movement both on and off stage. Students use their life experiences to create character and also relate that experience to philosophies and methods of performance. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: FA

THA 112 - Fundamentals of Acting II

Credit Hour(s): 3
Students develop the concentration, imagination, observation, and understanding that basic acting requires. They involve themselves in performance in order to understand the nature of humankind. This course also introduces students to stage geography, theatre terminology, and a beginning understanding of fundamental makeup practices. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: SP

THA 202 - Stage Craft

Credit Hour(s): 3
A study of the basic techniques of scene design and construction. This course has an additional fee. 3 Credit(s). 4 Contact Hour(s).
Meets Fine Arts Requirement.
Course Session Cycle: FA
THA 203 - Video Production Workshop

Credit Hour(s): 3
This course will introduce students to the fundamentals of acting and directing from the camera. The students will examine theories and implement the techniques for producing short video productions. This course has an additional fee. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: FA
Course Yearly Cycle: ODD

THA 205 - Applied Summer Theatre I

Credit Hour(s): 3
Intensive experience in one or more areas of productions in a summer theatre. The emphasis will be placed on practical and sound approaches to theatre technique characterized by a short rehearsal time. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: ET

THA 222 - Voice and Diction

Credit Hour(s): 3
The purpose of this course is to improve verbal communication by the study and practice of articulation and pronunciation, including an introduction to phonetics and vocal anatomy through delivery of simple speeches and reading. Students explore various vocal techniques, use specific vocal exercises for individual learning, and analyze and evaluate their peers. 3 Credit(s).
This course is designated by Ferrum College faculty to meet the entire Speaking Intensive requirement; a grade of “C” or higher in this course is required for this course to be used by a student to complete the Speaking Intensive graduation requirement for Ferrum College. A student cannot earn a grade of “C” or higher in this course unless he or she earns a “C” or better on the speaking assignments required by the course.
Course Session Cycle: FASP

THA 233 - Introduction to Musical Theatre

Credit Hour(s): 3
Students in this course will learn to appreciate the historical development and special problems of theatre, music and dance as they merge into a specific performing art. Students will consider "page to stage” issues of musical theatre as it has evolved from early opera to contemporary Broadway musicals. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: FA
Course Yearly Cycle: ODD

THA 246 - Play Production I: Beginning Directing

Credit Hour(s): 3
This course takes the beginning director through the production process from page to stage. It will cover the fundamentals of directing including script selection, auditions, rehearsals and design decisions into production. 3 Credit(s). 5 Contact Hour(s).
Meets Fine Arts Requirement.
Course Session Cycle: FA
Course Yearly Cycle: ODD
THA 281, 282 to 287, 288 - Theatre Practicum

Credit Hour(s): 1
Offers practical and supervised experience in either acting or production. All students will be extensively involved in a major, faculty-directed production. Majors may count no more than three credits toward the major; minors may count no more than one credit towards the minor. Students enroll in this course immediately following the tryout period for major productions. 1 Credit(s).
Course Session Cycle: FASP

THA 300 - Auditions and Makeup Workshop

Credit Hour(s): 3
The students will learn, refine, and apply industry standard audition process and makeup design theory and techniques. Students will learn the methods and techniques for preparing the professional resume, the head-shot and the audition pieces appropriate to presentation at professional talent calls. The students in the course will also learn the research methods and practical techniques for doing stage makeup for specific characters. This course has an additional fee. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

THA 301 - World Theatre I: through the Eighteenth Century

Credit Hour(s): 3
Students examine diverse theatrical literature development from the beginning of Greek drama through the eighteenth century. Students will study representative scripts, libretti and scores and the historical context in which they were created. 3 Credit(s).
Meets Fine Arts Requirement.
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: FA
Course Yearly Cycle: EVEN

THA 302 - World Theatre II: from 1800 to the Present

Credit Hour(s): 3
Students examine diverse theatrical development from the nineteenth and twentieth centuries into the 2nd millennium. Students will study representative scripts, libretti and scores and the historical context in which they were created. 3 Credit(s).
Meets Fine Arts Requirement.
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): ENG 102 with a grade of "C" or higher.
Course Session Cycle: SP
Course Yearly Cycle: ODD

THA 305 - Applied Summer Theatre II
Credit Hour(s): 3
Intensive experience in one or more areas of productions in summer theatre. The emphasis will be placed on practical and sound approaches to theatre technique characterized by a short rehearsal time. 3 Credit(s).
Meets Fine Arts Requirement.
Prerequisite(s): THA 205.
Course Session Cycle: ET

THA 320 - Advanced Acting and Performance Theory

Credit Hour(s): 4
An advanced study and practice of roles in contemporary theatre with some emphasis placed on acting for children and youth. Students develop a personal philosophy of performance after studying a variety of theories such as those of Brecht, Stanislavsky, Grotowski, Schectner, and Strasburg, which will be used to develop a personal approach to performing. 4 Credit(s), 5 Contact Hour(s).
Course Session Cycle: SP

THA 333 - Musical Theatre II

Credit Hour(s): 3
Building on the groundwork laid in THA 233, students will focus on what professional actors, singers and 3 Credit(s). Meets Fine Arts Requirement.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

THA 336 - Creative Dramatics in School Church and Community

Credit Hour(s): 3
Surveys and develops a philosophical approach to using drama for children as not only a means of arts expression but also as a method to teach life skills. Students experience various techniques that allow them to develop their own methods of using drama in non-theatrical forms. Students study leading practitioners in the field including McCaslin Heathcoate and Way. 3 Credit(s).
Meets Fine Arts Requirement.
Course Session Cycle: SP
Course Yearly Cycle: ODD

THA 346 - Readers Theatre

Credit Hour(s): 3
Students in this course will learn how to read and write material for the performer, as well as the basics of readers theatre performance. You will examine poetry, prose fiction and non-fiction, and drama in a series of writing assignments which will be performed by classmates in mini performances. 3 Credit(s).
Meets Fine Arts Requirement.
This course is designated Writing Intensive; a grade of "C" or higher in this course is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College. A student cannot earn a grade of "C" or higher in this course unless he or she earns a "C" or better on the writing assignments required by the course.
Prerequisite(s): Pass ENG 102 with a minimum grade of C.
Course Session Cycle: FA
Course Yearly Cycle: ODD

THA 402 - Stagecraft II
Credit Hour(s): 3
THA 402 Stagecraft II offers practical and supervised experience in production (Set, Costumes, Sound, and Lighting design/construction). All students will be extensively involved in a major, faculty-directed production. This course has an additional fee. 3 Credit(s).
Prerequisite(s): Pass THA 202.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

THA 405 - Applied Summer Theatre III

Credit Hour(s): 3
Intensive experience in producing plays for the College's Summer Theatre. Students will be required to specialize in box office management, directing, or supervision of interns. 3 Credit(s).
Meets Fine Arts Requirement.
Prerequisite(s): Pass THA 305.
Course Session Cycle: ET

THA 412, 413 or 414 - Special Theatre Topics

Credit Hour(s): 1-3
The course is an intensive study of a particular aspect of theatre. The topics will vary from semester to semester based on the yearly assessment of the needs and interests of sophomore-level students. This course accommodates the individual needs of students across the major. Possible topics could include puppetry specific lighting techniques sound design makeup and costume design as well as emerging performance and production techniques. 1-3 Credit(s).

THA 446 - Directing

Credit Hour(s): 3
Focuses on analysis communication and style in directing. Students will have the opportunity to bring the principles and creative concepts they have learned to bear on the complex task of directing the total artistic product. 3 Credit(s).
Meets Fine Arts Requirement.
Prerequisite(s): Pass THA 111.
Course Session Cycle: SP
Course Yearly Cycle: EVEN

THA 481, 482 or 483 - Academic Theatre Practicum

Credit Hour(s): 1
Students may arrange independent work in academic research teaching or play writing with one of the drama faculty members to explore a variety of individualized learning experiences that standard courses do not meet. 1 Credit(s). 2 Contact Hour(s).

THA 498 - Senior Seminar

Credit Hour(s): 3
Students will complete selected readings engage in appropriate research and complete a major production project related to the students individual theatre focuses. The course culminates with a public adjudicated performance and a subsequent critical analysis paper in which the students synthesize the total educational experience. This course has an additional fee. 3 Credit(s).

THA 499 - Internship
Credit Hour(s): 3 or 6
The internship is designed to give the student practical work experience in the area of theatre for which the student has been trained while at Ferrum. The work experience is carefully chosen to fit the specific needs of the individual student. The internship is carefully supervised to insure a job experience that will help make the transition to a fruitful career. Before students enroll in this course they must complete several requirements that are listed in the Internship Handbook. Candidates for the B.F.A. must complete this internship in a professional theatre company approved by the Theatre Arts Coordinator. This course has additional fee. 3 or 6 Credit(s).
Course Session Cycle: FA
Course Yearly Cycle: EVEN

DIRECTORY

Ferrum College Directory 2019-2020

- Faculty Directory
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Administrative Staff

(Current as of September 3, 2019)

Office of the President

David L. Johns
President of the College
Professor of Religion
B.A., Malone University
M.A., Earlham School of Religion
M.L.S., Kent State University
Ph.D., Duquesne University

Courtney L. Brown
Special Assistant to the President and Liaison to the Board of Trustees
B.A., Randolph-Macon Woman's College

Felicia H. Woods '91, '98
Executive Assistant to the President
A.A.S., Ferrum College
B.S., Ferrum College

Jan C. Nicholson
Dean of the Chapel & Spiritual Life
B.A., Methodist College
M.Div., Duke University Divinity School
D.Min., Wesley Theological Seminary

Human Resources

Christopher P. Chandler
Director of Human Resources
B.A., The University of Texas at Austin

Diane A. Bernard
Coordinator of Classification, Compensation, and Employment

Bernice Setliff
Human Resources Assistant

Melissa R. Wright
Coordinator of Benefits and Training

Office of the Provost and Vice President for Academic Affairs

Aimé Sposato
Provost and Vice President for Academic Affairs
B.A., University of Pittsburgh
M.M., Duquesne University
D.M.A., West Virginia University

Shamonta’ Taylor
Executive Assistant to the Provost and Vice President for Academic Affairs

Kevin P. Reilly
Assistant Vice President for Academic Affairs
Professor of Psychology
B.S., Bridgewater State College
M.A., Bridgewater State College
Ph.D., Lehigh University

Jennifer Whitlow
Senior Administrative Assistant to the Assistant Vice President for Academic Affairs
B.S., Longwood University

Schools
School of Arts, Sciences, and Business

Jason D. Powell  
Dean, School of Arts, Sciences, and Business  
Professor of Chemistry and Physics  
B.S., Virginia Polytechnic Institute and State University  
M.A., University of Virginia  
Ph.D., University of Illinois at Urbana-Champaign

Cassandra Doss Pagans  
Administrative Assistant to the Dean, School of Arts, Sciences, and Business  
A.A.S., Patrick Henry Community College

Carol C. Love  
Laboratory Supervisor  
B.S., University of Connecticut

Eileen Maher  
Laboratory Assistant  
B.S., State University of NY at Oswego  
M.S., Rutgers University

Sarah Isley '15  
Titmus Farm Manager  
B.S., Ferrum College

School of Health Professions and Social Sciences

Angie L. Dahl  
Dean, School of Health Professions and Social Sciences  
Associate Professor of Psychology  
B.A., Concordia College  
M.A., Luther Seminary  
M.S., Utah State University  
Ed.S., Utah State University  
Ph.D., Utah State University

Kathy Fletcher  
Administrative Assistant to the Dean, School of Health Professions and Social Science

School of Graduate and Online Education Studies

Sandra Via, Director  
Associate Professor of Political Science  
B.A., Ferrum College  
M.A., Virginia Polytechnic and State University  
Ph.D., Virginia Polytechnic and State University

Office of the Registrar
Yvonne S. Walker '91, '99
Registrar
A.S., & B.S., Ferrum College

Mary Elizabeth "Beth" Shively, '81, '84
Assistant Registrar
A.A., & B.S.W., Ferrum College

Becky P. Sigmon, '88
Senior Office Assistant
A.A.S., Ferrum College

**Academic Resource Center**

David Wiggins
Dean of Student Success
B.A., Emory and Henry College
Ph.D., Virginia Polytechnic Institute and State University

Michelle Carter
Coordinator of First-Year Experience
B.S., Liberty University
M.A., Liberty University

Donna Winge
Office Manager of Academic Resource Center
A.A.S., Dabney S. Lancaster Community College
B.A., James Madison University

Nancy Beach '75
Director of Academic Accessibility Services
A.S., Ferrum College
B.S., George Peabody College
M.Ed., Lynchburg College

Tyler H. Brubaker, '13
Academic Support Counselor
B.S., Ferrum College
M.E., Averett University

Ronda Bryant
Coordinator of Second Year Experience
B.A., Wake Forest University
M.A.Ed., Wake Forest University
Ph.D., University of Virginia

Elizabeth "Betsy" W. Smith
Director of Academic Progress and Evaluation
B.A., University of Virginia
J.D., University of Virginia

Thomas W. Steele
Director of Academic and Athletic Initiatives
B.S., Presbyterian College
M.H.R.D., Clemson University

Lana A. Whited
Professor of English and Director of the Boone Honors Program
B.A., Emory and Henry College
M.A., The College of William and Mary
M.A., Hollins College
Ph.D., University of North Carolina at Greensboro

Stanley Library

Eric Rector
Director of Stanley Library
B.A., Missouri State University
MLIS, University of Iowa

Daniel D. Adams
Library Assistant
A.A., Virginia Western Community College
B.A., Roanoke College

Peggie R. Barker
Associate Professor of Library Science, Technical Services Librarian
B.S., Radford College
M.L.S., University of North Carolina at Greensboro

Cheryl T. Hundley, ’77
Interlibrary Loan Coordinator
A.A.S., Ferrum College

Office of Administration and Finance

Christopher Burnley
Vice President for Administration and Finance
B.A., Lynchburg College
M.B.A., Liberty University

Kim Allen
Executive Assistant to the Vice President for Administration and Finance

Aaron Creasy
Manager of Capital Projects
B.A., St. Leo College

Business Office

Vicky A. Robertson
Controller
A.A.S., Virginia Western Community College
B.A., Mary Baldwin College

Deborah Adkins
Payroll Accountant and Cashier
B.A., Averett University

Lola J. Cannaday
Accounting Specialist
A.A.S., Patrick Henry Community College

Diane H. Hodges
Accounts Payable and Purchasing Coordinator

Jessica Luther, '06
Director of Budgets
B.S., Ferrum College
M.B.A., Texas A&M University-Commerce

Lori Feazell
Student Accounts Associate

Susan Yates
Student Accounts Coordinator
A.A.S., Patrick Henry Community College

Office of Institutional Effectiveness, Planning and Assessment

Barry Pelphrey
Executive Director of Institutional Effectiveness, Planning, and Assessment
B.S., Morehead State University
M.A., Morehead State University
Ph.D., University of Kentucky

Ursa Johnson
Director of Institutional Research and Effectiveness
B.S., Georgia Southern University
M.S., Capella University

Kimberly J. Najduch
Instructional Design and Technology and Online Learning Administrator
B.A., Juniata College
M.S.Ed., Purdue University

Information Technology

Eugene R. Hacker, III, '05
Director of Networking Services
B.S., Ferrum College
Shawn P. Shirley  
Director of Administrative Computing  
A.A.S., Dominion College

Margaret Drakeford  
Administrative Computing Specialist

Donna Jefferson  
Help Desk Manager, Network Support Specialist and Academic Support  
B.A., National Business College

Bradley Reed  
Network Systems Specialist  
A.A., Patrick Henry Community College  
B.S., Liberty University

Vernese Smith  
Staff Training and Technical Support Specialist

**Campus Safety/Police Department**

James F. "Jim" Owens  
Chief of Police and Director of Campus Safety  
Roanoke City Police Academy

John Acord  
Police Officer  
Piedmont Regional Criminal Justice Training Academy

Joseph D. "Joe" Kelley  
Police Sergeant  
Piedmont Criminal Justice Academy  
Cardinal Criminal Justice Academy

E. Howard Painter  
Police Officer  
Cardinal Criminal Justice Academy

Stephen "Steve" G. Pegram  
Police Officer  
Cardinal Criminal Justice Academy

Timothy "Tim" G. Tatum  
Police Officer  
Cardinal Criminal Justice Academy

Richard "Rik" Vaughn  
Police Sergeant  
Cardinal Criminal Justice Academy

Mark Winn  
Police Officer
Physical Plant

Brad Bishop
Director of Physical Plant
A.S., Patrick Henry Community College
B.S., Virginia Polytechnic Institute and State University

Destiney Morris '16
Office Manager, Physical Plant
B.S., Ferrum College

F. Allen Alderman
Purchasing Manager, Physical Plant

C. Ruben Altice
Manager of Housekeeping Services

Jon Scott
Energy Manager
A.A., Patrick Henry Community College

Jonathan Snelson
Manager of Grounds Enhancement

Kathy Creech
Mail Service Supervisor

Carrie Fisher
Mail Service Clerk

Conferences and Events

Michael Vaughan
Manager of Conferences and Events
B.A., Northland International University
M.B.A., Radford University

Ryan Sidhu
Assistant Manager of Conferences and Events
B.S., The University of Tennessee

Office of Enrollment Services and Admissions

James "J.P." Pennix
Vice President for Enrollment Management
B.S., Roanoke College
M.S.W., Radford University

Jason Byrd '03
Dean of Admissions
B.A., Ferrum College
M.B.A., Radford University

Donna Metz
Senior Admissions Office Assistant

Deanna Edmonds Bullins ’13
Admissions Counselor
B.A., Ferrum College
M.A.E.E., University of Georgia

Morghen S. Carter
Admissions Counselor
B.S., James Madison University
M.S.W., Louisiana State University

Tiffany Coleman ’10
Assistant Director of Admissions
B.A., Ferrum College
M.A., Charleston Southern University

Joyce Creel
Data Processing Specialist
A.A.S., Patrick Henry Community College

Shawnta’ Dandridge
Senior Admissions Counselor
B.S., Radford University

Mallory Hall ’19
Admissions Counselor
B.S., Ferrum College

Shannon E. Peters
Assistant Director of Admissions Operations
A.A.S., Patrick Henry Community College

E. Edwina Prunty
Associate Dean of Admissions
B.S., Knoxville College
M.Ed., University of Virginia

Parker Gunn
Communication Coordinator
A.A., Patrick Henry Community College
B.A., Roanoke College

**Financial Aid**

W. Heather Hollandsworth ’00
Director of Financial Aid
B.A., Ferrum College
M.A., Hollins University
Denna S. Austin ‘90  
Assistant Director of Financial Aid  
A.A.S., Ferrum College  
B.B.A., Averett College

Stephanie F. Bailey  
Financial Aid Counselor  
A.S., National College of Business and Technology

Julianne M. Nix  
Assistant Director of Financial Aid  
B.A., University of Spartanburg

### Office of Campus Diversity, Wellness, and Student Affairs

Lynise Anderson  
Dean of Campus Diversity, Wellness and Student Leadership  
B.S., Prairie View A&M University  
N.D., Trinity College of Natural Health

Aaron R. Conover ‘93  
Director of Ferrum Outdoors  
B.S., Ferrum College

Leslie A. Holden  
Director of Career Services  
B.S., University of Oregon  
M.Ed., Plymouth State College

Lisa Stuart  
Office Manager, Campus Engagement

Jessica Stallard, LCSW (Carillion EAP)  
Counselor

Justin L. Muse, ’05  
Director of Student Activities  
B.S., Ferrum College  
M.A., Liberty University

Coordinator of Intramurals and Club Sports  
TBD

### Office of Student Life

Nicole Lenez  
Dean of Students and Title IX Coordinator  
B.A., Roanoke College  
M.A., Clemson University
Vanessa M. Stone  
Coordinator of Student Administrative Services

Edwin "Chip" Phillips '75, '77  
Director of Housing and Resident Life  
A.S., Ferrum College  
B.S., Ferrum College

Alli Colls '15  
Coordinator, Residential Education  
B.A., Ferrum College

Leya Deickman '19  
Area Coordinator  
B.A., Ferrum College

Dyamond Howell  
Area Coordinator  
B.A., Elon University

**Office of Institutional Advancement**

Wilson Paine '07  
Vice President for Institutional Advancement and External Relations  
B.S., Ferrum College  
M.T.S., Harvard University

Barton Smith  
Director of Development  
B.A., University of Tennessee

Brenda Martin  
Executive Administrative Assistant  
B.S., Virginia Polytechnic Institute and State University

Jamie Peters Campbell, '06  
Associate Director of External Relations  
B.A., Ferrum College

L. Kathi Renick  
IA Database Manager and Gift Recorder

**Marketing and Communications**

Kristin C. Waters  
Director for Marketing and Communications  
B.S., Virginia Polytechnic Institute and State University

Diana Yates '11  
Interactive Media and Design Manager
Alumni Affairs

Tracy S. Holley ’96
Director of Alumni and Family Programs
B.A., Ferrum College

Blue Ridge Institute

Bethany Worley
Director of Blue Ridge Institute
B.A., Emory and Henry College
M.S., University of Memphis

J. Roderick Moore
Special Advisor and Director Emeritus of Blue Ridge Institute
B.A., Virginia Polytechnic Institute and State University
M.A., Cooperstown Graduate Programs

Krystal Davis
Office Manager, Blue Ridge Institute
A.A.S., Danville Community College
B.S., Averett University
M.B.A., Averett University (pending Dec. 2019)

Rebecca B. Austin
Coordinator of Educational Outreach and Interpretation

Athletics Department

Gary A. Holden
Interim Athletics Director and Sports Information Director
B.A., Plymouth State College
M.Ed., Plymouth State College

Gail M. Holley
Manager of Athletics Administrative Operations

T. J. Agee ’98
Head Cheerleading Coach
B.S., Ferrum College

Ben Austin
Assistant Baseball Coach
B.A., Wofford College
M.A., East Tennessee State University

Carrie A. Austin
Interim Assistant Athletics Director
Senior Women's Administrator and Head Field Hockey Coach
B.A., West Chester University of Pennsylvania
Michael Baggetta
Men's Head Lacrosse Coach
B.S., Salisbury University

Rodney "Rod" Baker
Assistant Men's Soccer Coach
Head Men's and Women's Tennis Coach
B.S., College of William and Mary

Margaret Parcell Bisnett
Head Men's and Women's Swimming Coach
B.A., Virginia Polytechnic Institute and State University

Ryan C. Brittle
Head Baseball Coach
B.S., Virginia Polytechnic Institute and State University
M.Ed., East Central University

Mikayla Cannaday '19
Assistant Woman's Soccer Coach
B.S., Ferrum College

Patrick Corrigan
Assistant Men's Basketball Coach
B.A., Hampden-Sydney

Erick Cox '13
Head Men's and Women's Golf Coach
B.S., Ferrum College

Lauren Cox
Assistant Athletics Trainer
B.S., Radford University
D.A.T., Indiana State University

Robert "Seth" Crawford
Head Athletics Trainer
B.S., James Madison University
M.S., Virginia Polytechnic Institute and State University

Enda Crehan
Head Men's Soccer Coach
B.S., Post University
M.B.A., Averett University

Gerald D. Culler
Head Women's Softball Coach
B.S., High Point University

Marshall Doss
Assistant Football Coach
B.A., Sports Mgmt., Emory and Henry
B.A., Business Mgmt., Emory and Henry
Ruthanne Duffy
Head Women's Volleyball Coach
B.A., University of Virginia's College at Wise

Richan Gaskins
Assistant Football Coach
B.A., Duquesne University
M.S., University of Charleston

Robert S. Grande Sr.
Head Football Coach
B.S., Salisbury University
M.Ed., Salisbury University

W. Bryan Harvey
Head Women's Basketball Coach
B.S., Roanoke College

Karen M. Harvey
Head Women's Lacrosse Coach
B.S., Roanoke College
M.S., Virginia Polytechnic Institute and State University

Robert M. James, '82, '84
Assistant Football Coach
A.S., Ferrum College
B.S., Ferrum College

Nathan Jones
Assistant Athletics Trainer
B.S., University of Virginia Curry School of Education
M.S., University of Virginia Curry School of Education

Lewis G. "Lew" Kent
Assistant Baseball Coach
B.A., North Carolina State University
M.S., Radford University

Caitlin Keroack
Associate Head Athletics Trainer
B.S., Longwood University
M.S., Illinois State University

Kelsey Long
Assistant Women's Basketball Coach
B.A., Belmont Abbey College
M.A., Queens University of Charlotte

Breonnah Neal
Head Women's Wrestling Coach
B.A., King University

Haley Overstreet '17
Associate Field Hockey Coach
B.S., Ferrum College
Ryan Riggs
Associate Head Men's Wrestling Coach
B.A., Cleveland State University
M.A., Heidelberg University

Erin Saleebey
Head Women's Soccer Coach
B.S., Queens University of Charlotte
M.S., Walden University

Matthew "Tyler" Sanborn
Men's Head Basketball Coach
B.A., Guilford College

John David "J. D." Shaw
Assistant Football Coach
B.S., West Virginia University
M.S., West Virginia University

Lucas "Luke" Summers
Assistant Football Coach
B.A., University of Mount Union

Margrit White
Assistant Coach Women's Softball
B.A., University of North Carolina-Wilmington
M.E., Boston University

Mark White '96
Head Men's and Women's Cross Country Coach
B.S., Ferrum College
M.S., Ohio University

Nathan P. "Nate" Yetzer
Men's Head Wrestling Coach
B.S., Edinboro University of Pennsylvania
M.S., Virginia Polytechnic Institute and State University

Emeritus Presidents and Faculty

President Emeriti

Jennifer L. Braaten, 2002-2016
President Emeritus

Jerry M. Boone, 1987-2002
President Emeritus

Faculty Emeriti
C. James Bier, 1977-2007
Faculty Emeritus, Chemistry

Jody D. Brown, 1975-2003
Faculty Emeritus, English

Faculty Emeritus, Mathematics

Ed Cornbleet, Sr., 1985-2008
Faculty Emeritus, Spanish

Jack Corvin, Sr., 1968-1999
Faculty Emeritus, Religion

Peter G. Crow, 1973-2008
Faculty Emeritus, English

Gary P. Evans, 1978-2008
Faculty Emeritus, Music

Marcia Horn, 1986-2009
Faculty Emeritus, English

David Johnson, 1979-2014
Faculty Emeritus, Chemistry

John W. Leffler, 1978-2004
Faculty Emeritus, Biology and Environmental Science

Sandra L. Mankins, 1980-2009
Faculty Emeritus, Psychology

Kenneth R. McCreedy, 1995-2008
Faculty Emeritus, Criminal Justice

Samuel B. Payne, 1973-2005
Faculty Emeritus, Political Science

Erma L. Rose, 1973-2005
Faculty Emeritus, Music

J. Carol Sandidge, 1965-2001
Faculty Emeritus, Physical Education

Richard Smith, 1976-2018
Faculty Emeritus, History

Faculty Emeritus, Theatre Arts

Jane D. Stogner, 1972-2004
Faculty Emeritus, Art

David Sulzen, 1991-2018
Faculty Emeritus, Accounting
C. Faye Wood, '52, 1956-1993
Faculty Emeritus, Religion

Daniel Woods, -2013
Faculty Emeritus, Religion

Faculty Directory

(Current as of 09/11/2019)

Aimé Sposato
Provost
B.A., University of Pittsburgh
M.M., Duquesne University
D.M.A., West Virginia University

Kevin P. Reilly
Assistant Vice President for Academic Affairs
Chair, SACSCOC Reaffirmation Report
Associate Professor of Psychology
B.S., Bridgewater State College
M.A., Bridgewater State College
Ph.D., Lehigh University

Angie L. Dahl
Dean of the School of Health Professions and Social Services
Assistant Professor of Psychology
B.A., Concordia College
M.A., Luther Seminary
M.S., Utah State University
Ed.S., Utah State University
Ph.D., Utah State University

Jason Powell
Dean of School of Arts, and Sciences
Professor of Chemistry and Physics
B.S., Virginia Polytechnic Institute and State University
M.A., University of Virginia
Ph.D., University of Illinois at Urbana-Champaign

Sandra E. Via
Director of the School of Graduate and Online Studies
Associate Professor of Political Science
B. A., Ferrum College
M.A., Virginia Polytechnic and State University
Ph.D., Virginia Polytechnic and State University

Taiwo Ajani
Associate Professor of Computer Information Systems
B.S., University of Ibadan
M.S., University of South Florida
Ph.D., Robert Morris University

Justin J. Allen
Instructor of Mathematics and Coordinator of Mathematics Center
B.A., State University of New York at Potsdam
M.S., Syracuse University

Peggie R. Barker
Associate Professor of Library Science,
Technical Services Librarian
B.S., Radford College
M.L.S., University of North Carolina at Greensboro

Rathin Basu
Professor of Economics
B.S., University of Calcutta
M.S., University of Calcutta
M.A., Ohio University
Ph.D., Virginia Polytechnic Institute and State University

Nancy S. Beach '75
Director of Academic Accessibility Services and Assistant Professor
A.S., Ferrum College
B.S., George Peabody College
M.Ed., Lynchburg College

Roman Bohdan
Assistant Professor of Business
B.A., Ivan Franko Lviv National University
M.S., Ukranian State University of Economics and Finance
M.B.A., Washington University
M.S., University of New Orleans
Ph.D., University of New Orleans

Jon Booze
Instructor of Chemistry
B.S., Chemistry Appalachian State University
Ph.D., University of North Carolina Chapel Hill

Daniel A. Bowman
Associate Professor of Physics
B.S., University of Akron
M.S., Indiana University
Ph.D., Indiana University

Nancy M. Brubaker
Associate Professor of Animal Science
B.S., Ferrum College
D.V.M., Virginia Polytechnic Institute and State University

Alison Burke
Visiting Instructor of Biology
B.S., North Greenville University
Ph.D., Virginia Polytechnic Institute and State University
John C. Carey
Instructor of English
B.A., West Virginia University
M.A., Marshall University

Karen Carpenter
Assistant Professor of Health and Human Performance - Exercise Science
B.S., Radford University
M.S., Radford University
Ph.D., Walden University

Daniel W. Caston
Chair, Social Sciences Division
Assistant Professor of Recreation Leadership
B.S., Longwood College
M.S., Western Illinois University
Ph.D., Prescott College

Christine Christianson
Assistant Professor of Teacher Education
B.S., Radford University
M.S., Radford University
Ph.D., North Carolina State University

Keith M. Cooley
Instructor of Mathematics
B.A., Virginia Polytechnic Institute and State University
M.S., Virginia Polytechnic Institute and State University

Jack W. Corvin, Jr., ’85
Assistant Professor of Philosophy
B.A., Ferrum College
Ph.D., University of Georgia

Rebecca Crocker ’02
Visiting Assistant Professor of Theatre Arts and Musical Theatre
M.F.A., The Theatre School at DePaul University
B.F.A., Ferrum College

Timothy Daniels
Assistant Professor of History
B.A., Hampden-Sydney College
B.S., Hampden-Sydney College
M.A., University of Alabama
Ph.D., University of California, Santa Barbara

Omar Darwish
Assistant Professor of Computer Technology and Information Systems
B.S., Al al-Bayt University
M.S., Jordan University of Science and Technology
Ph.D., Western Michigan University

Beth A. Dantonio
Senior Instructor of English
B.A., George Mason University
M.A., Hollins University
Karen A. Duddy  
Assistant Professor of English and Coordinator of the Writing Center  
B.A., Boston College  
M.A., Rutgers University

Timothy C. Durham  
Associate Professor of Crop Science  
A.A.S., Suffolk County Community College  
B.S., Cornell University  
Postgraduate Diploma in Applied Science, Lincoln University  
D.P.M.(Doctor of Plant Medicine), University of Florida

Bryan L. Faulkner  
Associate Professor of Mathematics  
B.S., Western Carolina University  
M.S., Western Carolina University  
Ph.D., Clemson University

Todd R. Fredericksen  
Associate Professor of Forestry and Wildlife  
B.A., Virginia Military Institute  
M.S. North Carolina State University  
Ph.D., Virginia Polytechnic Institute and State University

Dana Ghioca-Robrecht  
Visiting Assistant Professor of Biology  
B.S., University of Bucharest  
M.S., University of Bucharest  
Ph.D., Texas Tech University

Katherine M. Goff  
Chair, Health Professions Division  
Chair, Nursing Program Feasibility Study  
Associate Professor of Biology  
B.S., Virginia Polytechnic Institute and State University  
M.S., West Virginia University  
Ph.D., Virginia Polytechnic Institute and State University

M. Katherine Grimes  
Professor of English  
B.A., Catawba College  
M.A., University of North Carolina at Chapel Hill  
Ph.D., University of North Carolina at Greensboro

Laura L. Grochowski  
Associate Professor of Chemistry  
B.S., Delaware Valley College  
Ph.D., Oregon State University

Edward E. Groth  
Instructor of Business  
A.S., Virginia Western Community College  
B.S., The Ohio State University  
M.B.A., Xavier University
Martha Haley-Bowling '90
Associate Professor of Social Work
A.A.S., Ferrum College
B.S.W., Ferrum College
M.S.W., Virginia Commonwealth University
Ph.D., Capella University

Edmond D. Hally
Associate Professor of Political Science and Public Administration
B.A., Rider University
M.A., University of Iowa
Ph.D., University of Iowa

Bettina (Tina) L. Hanlon
Professor of English
B.A., Gettysburg College
M.A., The Ohio State University
Ph.D., The Ohio State University

Shannon B. Hardwicke
Associate Professor of Physical Education
B.S., Radford University
M.Ed., Radford University
Ph.D., Virginia Polytechnic Institute and State University

Michael Hancock-Parmer
Associate Professor of History
B.A., Western Michigan University
M.A., Indiana University
Ph.D., Indiana University

Allison L. Harl
Associate Professor of English
B.A., Radford University
M.A., Georgia State University
Ph.D., University of Arkansas

Delia R. Heck
Chair, Natural Sciences Division
Professor of Environmental Science
B.S., University of Arizona
M.A., University of Washington
Ph.D., University of Washington

David B. Howell
Professor of Religion
Director of Faculty Development
A.B., William Jewell College
M.Div. and Th.M., Southeastern Baptist Theological Seminary
D.Phil., University of Oxford

Jennifer Irish
Chair, Humanities Division
B.A., Georgia College
M.A., West Virginia University
Ph.D., Florida State University

John V. Kitterman
Professor of English
B.A., University of Virginia
M.Ed., University of Virginia
M.A., University of Virginia
Ph.D., University of Virginia

Billy J. Long
Associate Professor of Criminal Justice
B.S., East Tennessee State University
M.A., East Tennessee State University
Ph.D., Indiana University of Pennsylvania

Melvin L. Macklin
Associate Professor of English
B.A., Southern Illinois University
M.S., Prairie View A and M University
Ph.D., University of Texas at Dallas

Josh Manning
Assistant Professor of Art

Jason Matyus
Chair, Business, Informatics, Mathematics, and Accounting Division
Assistant Professor of Business
B.S. California University of Pennsylvania
M.B.A., Waynesburg University
D.B.A., Walden University

Lori Mattox
Assistant Professor in Health and Human Performance-Exercise Science

Christopher C. Mayer
Assistant Professor of Recreation Leadership
B.A. Eastern Illinois University
M.S., Southern Illinois University
Ph.D., Colorado State University

Susan V. Mead
Assistant Professor of Sociology
B.A., Agnes Scott College
M.S., Virginia Polytechnic Institute and State University
Ph.D., Virginia Polytechnic Institute and State University

Sixto Montesinos
Assistant Professor of Music
Ph.D., Rutgers University

Michele K. Naff
Assistant Professor of Business
B.B.A., William and Mary
M.B.A., Virginia Polytechnic Institute and State University
David F. Nicholson  
Associate Professor of Criminal Justice  
B.A., North Carolina State University  
M.S., North Carolina Central University  
M.A., North Carolina Central University  
Ph.D., University of Oklahoma  

David Park  
Instructor of Biology  
B.S., University of Illinois at Urbana-Champaign  
Ph.D., University of Illinois at Urbana-Champaign  

Maria Puccio  
Associate Professor of Chemistry  
B.A., Longwood University  
Ph.D., The George Washington University  

Giuseppe Riportto  
Assistant Professor of Dramatic and Theatre Arts/Musical Theatre  
B.A., Catawba College  
M.F.A., New York University  

Karl F. Roeper  
Associate Professor of Media & Communication  
B.S., Indiana University of Pennsylvania  
M.A., Indiana University of Pennsylvania  
Ph.D., Indiana University of Pennsylvania  

Natalia Smelkova  
Associate Professor of Biochemistry  
B.S., Vologda State Pedagogical Institute  
M.S., Vologda State Pedagogical Institute  
Ph.D., New York University School of Medicine  

Jacob R. Smith  
Chair, Visual and Performing Arts Division  
Assistant Professor of Art  
B.A., Roanoke College  
M.F.A., The George Washington University  

Megan M. St. Peters  
Associate Professor of Psychology  
B.S., University of the Ozarks  
M.A., Northern Illinois University  
Ph.D., Northern Illinois University  

Sharon E. Stein  
Professor of Psychology  
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M.S., Ohio University  
Ph.D., Ohio University  

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M.A., University of North Carolina at Chapel Hill
Ph.D., University of North Carolina at Chapel Hill

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B.A., Southern Methodist University
M.Div., Emory University
M.A., Marquette University
Ph.D., Marquette University

Sandra E. Via
Director, School of Graduate and Online Studies
Associate Professor of Political Science
B. A., Ferrum College
M.A., Virginia Polytechnic and State University
Ph.D., Virginia Polytechnic and State University

Sadie Wallace ’15
Associate Professor of Accounting
B.S., Ferrum College
M.S., Texas A & M University

Jennie B. West
Associate Professor of Social Work
B.A., Mercer University
M.S.W., University of Georgia

Lana A. Whited
Professor of English and Director of the Boone Honors Program
B.A., Emory and Henry College
M.A., The College of William and Mary
M.A., Hollins College
Ph.D., University of North Carolina at Greensboro

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