

Ferrum College

Catalog 2014 - 2015



An Invitation

Students, parents, alumni and friends are cordially invited to visit the campus. Visitors should come to Welcome Center located at 10021 Franklin Street (see map, inside back cover) for information and assistance. For further information, please visit our website at www.ferrum.edu or contact the college at (540) 365-2121/Toll Free: 1-800-868-9797.

The Admissions Office, located in Spilman-Daniel house (see map, inside back cover) welcomes prospective students and their families. Admissions staff are available from 9:00 a.m. – 4:00 p.m. weekdays and by appointment, from 9 a.m. to noon on Saturdays during the academic year, except during holiday weekends. Admissions personnel are available other times by appointment. For further information or to schedule an admissions visit, please contact the Admissions Office, at (540)365-4290, 1-800-868-9797 Option 1, or admissions@ferrum.edu.

Ferrum College does not discriminate on the basis of race, religion, color, national origin, age, veteran status, gender, sex, disability, or any other protected status in admission to, access to, treatment in or employment in its programs and activities. Ferrum College affirms the dignity and worth of every individual regardless of sexual orientation or gender identity and will not tolerate harassment or discrimination toward any individual. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Director of Human Resources, 109 Ferrum Mountain Road, Ferrum College, P.O. Box 1000, Ferrum, VA, 24088-9000; (540) 365-4596. Inquiries concerning the application of nondiscrimination policies may also be referred to: Washington DC (Metro), Office for Civil Rights, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-1475; Telephone:(202) 453-6020, Fax: (202)-453-6021, TDD; (800) 877-8339. OCR encourages use of e-mail or fax to communicate with OCR whenever possible. Also, complainants may file a complaint with OCR online or by email: OCR.DC@ed.gov.

Consumer Information

The following is a partial list of consumer information available to all students upon request: campus security report; drug and alcohol prevention information; Family Education Rights and Privacy Act provisions; drug-free workplace information; athletic participation rates and financial support data; and completion of graduation rates and transfer-out rate for the general student body. In addition, the following financial assistance information is available upon request: information concerning financial aid programs; student eligibility requirements and criteria for selecting recipients; the rights and responsibilities of students receiving aid; cost-of-attendance information; a complete statement of the school's refund policy including examples of the application of the refund policy; and information concerning the eligibility of students for financial aid funds for study-abroad programs approved for credit by Ferrum College.

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Ferrum College

P.O. Box 1000

Ferrum, VA 24088-9000

(540) 365-2121

www.ferrum.edu

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.

Ferrum College also holds membership in:

- Appalachian College Association
- The College Board
- Council of Independent Colleges
- Council of Independent Colleges in Virginia
- Council on Undergraduate Research
- National Collegiate Athletics Association
- National Collegiate Honors Council
- The Virginia College Fund

Mailing Address and Telephone

Ferrum College, P.O. Box 1000, Ferrum, VA 24088-9000
(540) 365-2121 TDD# (540) 365-4614
website: <http://www.ferrum.edu>

Please direct all questions relating to currently enrolled students to the Academic Resources Center:
(540) 365-4529.

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Academic Calendar 2014-2015

Fall Semester 2014

Classes begin
 Last Day to Add Classes
 Last Day to Drop “½ Semester” w/o Penalty (1st half)
 Last Day to Drop w/o Penalty
 Last Day of First “½ Semester” Classes
 Mid-term Grades Due
 Fall Break
 Classes resume
 First Day of Second “½ Semester” Classes
 Last Day to Add “½ Semester” Classes
 Last Day to Drop “½ Semester” w/o Penalty (2nd half)
 Last Day to Drop with a WP/WF
 Thanksgiving Break

Classes resume
 Monday, December 8
 Last day of classes
 Reading Day(English 101 Exams)
 Exam period
 Grades due

Monday, September 1
 Friday, September 5
 Friday, September 12
 Friday, September 26
 Wednesday, October 15
 Wednesday, October 15, 5 PM
 Thursday, October 16 – Sunday, October 19
 Monday, October 20
 Monday, October 20
 Friday, October 24
 Friday, October 31
 Tuesday, November 11
 Saturday, November 22 – Sunday, November 30
 (begins after last class Friday, November 21)
 Monday, December 1
 Follow Friday’s Schedule
 Tuesday, December 9, Follow Thursday Schedule
 TBA
 TBA
 TBA

Spring Semester 2015

Classes begin
 Last Day to Add Classes & E-term
 Martin Luther King Holiday programs
 Last Day to Drop “½ Semester” w/o Penalty (1st half)

Assessment Day
 Last Day to Drop w/o Penalty
 Last day to drop an E-term class w/o fee obligation
 End of First “½ Semester” Classes
 Mid-term Grades Due
 Spring Break

Classes resume
 First Day of Second “½ Semester” Classes
 Last Day to Drop “½ Semester” w/o Penalty (2nd half)
 Last Day to Drop Classes with a WP/WF
 Easter Break

Classes resume
 Last day of class
 Exam period
 Grades due
 Baccalaureate
 Commencement

Monday, January 12
 Friday, January 16
 Monday, January 19 (classes follow Compressed schedule)
 Friday, January 23

Friday, February 6 (*classes follow Compressed Schedule*)
 Friday, February 6
 Friday, February 6
 Friday, February 27
 Friday, February 27 5PM
 Saturday, February 28-Sunday, March 8
 (begins after last class Friday, February 27)
 Monday, March 9
 Monday, March 9
 Friday, March 20
 Friday, March 27
 Friday, April 3 – Monday, April 6
 (begins after last class Thursday, April 2)
 Tuesday, April 7
 Friday, April 24
 TBA
 TBA
 TBA
 TBA

Three-Week Term

Check -in for E-term
 Classes begin
 Last day of classes
 Grades Due

Monday , May 11
 Tuesday, May 12
 Friday, May 29
 Tuesday, June 2 Noon

An Introduction to 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.

Hallmark of a Ferrum College Graduate

The Ferrum College graduate possesses integrated knowledge in the liberal arts and a depth of knowledge in a chosen program of study. He/she thinks critically, communicates effectively, appreciates diversity, and serves his/her community, nation and the world.

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

Through experiences in the Core Requirements, the Ferrum College graduate will

- Demonstrate integrated knowledge in the liberal arts
- Demonstrate information literacy, using available technology when appropriate
- Demonstrate competency in quantitative skills and reading

2. Critical Thinking

Through opportunities to engage in critical thinking, both curricular and co-curricular, the Ferrum College graduate will

- Think critically and solve problems through analysis, evaluation, and inference.

3. Communication Skills

Through experiences in both the Core Requirements and a Program, the Ferrum College graduate will

- Communicate with unity of purpose and coherent organization consistent with standard rules and recognized conventions using appropriate methodologies

4. Competence in Academic Discipline

Through experiences in a Program, the Ferrum College graduate will

- Demonstrate a depth of knowledge, capability and ethical reasoning in a chosen field

5. Citizenship

Through opportunities, both curricular and co-curricular, the Ferrum College graduate will

- Demonstrate awareness of local, national and global issues
- Demonstrate personal responsibility
- Collaborate with people of diverse cultural attitudes, beliefs and values

Learning at Ferrum

The nature of a college is determined by the goals it sets for itself. But it is also determined by living and working within the college's lovely physical setting, experiencing its traditions, enjoying daily encounters with caring teachers and developing new ideas and friendships in a supportive learning community. In its 100-year history, four qualities have emerged which give Ferrum College its distinct character: accessibility, dedicated faculty, community pride, and preparation for life in the world beyond the campus.

Accessibility

Ferrum was founded by The United Methodist Church for the purpose of bringing quality secondary and higher education to students in the beautiful hill country of southwest Virginia. Our founders believed that there were able young men and women in the region who, with the advantage of a caring, quality education, could realize their potential and go on to higher achievement for themselves and for their fellow human beings. The first faculty members at Ferrum believed that it was their responsibility as teachers to make knowledge accessible by reaching out and showing students the way to the top. Thus began a tradition of caring instruction and willingness to work with any student with the determination to succeed.

Education is not accessible if it is too expensive to be afforded by those who desire it. As most of the early Ferrum students could not afford the cost of an advanced education, from the beginning, every effort was made to keep costs low. Today the college continues its commitment to keeping costs low while providing the faculty, staff, and facilities for a quality education. Financial aid options provide each student the most affordable college education possible. We have been and still are an outstanding educational value.

Dedicated Faculty

At the heart of the Ferrum experience is the college's earnest effort to enable students to learn.

Through the years Ferrum faculty have sought to draw out the innate abilities in each of their students. We believe today, as we believed in 1914 when the doors of the institution opened, that human beings mature and learn at different paces and in different ways. Good teaching demands flexibility and imagination every bit as much as it demands thorough knowledge of the subject matter. To be a teacher in the finest sense of the word requires the ability to recognize the

interests, capabilities and ambitions of the individuals to be taught, and the ability to bring these qualities to bear on the mastery of a subject.

It is gratifying when Ferrum alumni tell us that their college experience was the turning point in their lives. More often than not they will single out a particular teacher or two at Ferrum who made all the difference. We believe that such quality instructors are absolutely essential to the learning experience at Ferrum. We consciously seek the teacher who enjoys working closely with students, who understands that giving help outside the classroom is a part of the job, and who approaches the art of teaching open-mindedly and creatively for the purpose of enabling college students to learn and grow.

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.

Statement of Aspiration

As it seeks to uphold its historic mission and continue on its journey toward excellence as a comprehensive, residential liberal arts and professional studies institution, Ferrum College aspires to grow in stature, size, and strength.

Preparation for a Life in the World Beyond Campus

"Not Self But Others" proclaims the Ferrum College motto, a most apt byword for a college whose history brims with the unselfish dedication of many teachers and staff persons. It is not surprising that when the college heeded the request of many students and expanded its curriculum to the bachelor's degree, it did so initially with five programs committed to human services. The first of these programs, social work, is now a professionally accredited program. Strongly reliant on field experiences, this program led the way to the extensive use of internships, which is today a significant characteristic of the Ferrum undergraduate program.

This brief example from college history illustrates that Ferrum strives to prepare students to go out and interact meaningfully with the world beyond the campus. It is our hope that the quality of life of our community and the caring nature of its residents will serve as a model of excellence for our graduates moving out into the world. The college believes that learning should not occur in isolation and that its graduates must develop the skills necessary to meet the demands of the contemporary world in which they must compete for the realization of their goals.

Ferrum believes that liberal arts study is the best foundation for undergraduate programs, and the courses basic to our curriculum are within the mainstream of liberal learning. Ferrum is a college with a difference, however, the difference being the range of programs specifically directed toward serving today's needs. In addition to traditional programs, Ferrum offers programs in teacher education, accounting, recreation leadership, agriculture, social work, international studies, and environmental science, to name just a few. It is a varied array of programs, more commonly found

in universities rather than small colleges. This curriculum reflects the college's belief that it must equip students for the challenges and opportunities of our time.

As a college in partnership with a major Christian denomination, we believe that we must help our students learn to live with dignity, with physical and psychological wellbeing, and with a commitment to making the experience of living as meaningful and fulfilling as possible for themselves and men and women everywhere.

At its beginning, the Ferrum Training School opened vistas of knowledge to students who had never before been able to look beyond the everyday concerns of the Blue Ridge life. We have evolved from this regional perspective into a four-year college with an outlook on the global community of today. It is to the reality of our time and to the challenge of tomorrow that the Ferrum learning experience is directed.

Becoming a Ferrum Student

Ferrum recognizes that different people learn differently and that no single college campus will bring out the best performance in all students. Therefore, in reviewing the applications of prospective Ferrum students, it is our task to determine if our learning environment and the applicant will have the proper fit to bring about success. We also recognize that during the high school years many students are changing and growing and are only beginning to give a true account of their academic capability by the time they earn diplomas. We look at all of the information available to us – high school grade-point average, rank in class, SAT/ACT scores, as well as high school activities, evidence of leadership, dependability, industry. We also look for candid recommendations by guidance counselors and teachers. We may also request that the student come for an interview or will defer an admissions decision until the current semester's final grades can be reviewed. We bring together as much information as is appropriate to help us determine if Ferrum and the applicant are the right match for each other.

It is important for all prospective students to understand that Ferrum will probably make more demands on their time and energy than any institution they have previously attended. This reality determines the qualities we look for in selecting students for admission: 1. Adequate secondary school preparation and the ability to accomplish college academic work. 2. The motivation, maturity, and self-discipline required to apply one's efforts effectively to the fulfillment of college requirements and objectives. 3. An understanding that, although Ferrum offers much academic support, it is by individual effort that course content must be mastered and graduation requirements fulfilled. 4. A college expectation consistent with the mission and educational goals of Ferrum College.

If we believe that an applicant possesses these qualities, we will gladly offer an invitation to join our student body. We recommend, though, that all future Ferrum students visit our campus, walk about the grounds, eat in the dining hall or on-campus Subway, visit the library and the residence

halls, and meet staff and students in an effort to get a good feeling of what it is like to go to college here and to feel comfortable in our campus environment.

Ferrum is a distinct community, not simply because it is a group of people living and working in a common place, but because it is a group of people striving for a common purpose and subscribing to the goals and values outlined in our mission. Students in harmony with this community will likely do well at Ferrum and come to value it – as so many of our alumni have – as one of the finest experiences of their lives.

History

At the time of its founding in 1913, Ferrum's community was the mountains of southwest Virginia, and students came from homes in the southern Blue Ridge Mountains. Public education in the area at that time was also in its infancy. In the Ferrum system of five branch schools in Franklin, Floyd, Patrick and Madison counties, teachers struggled to bring elementary and secondary education to a student body that at one time numbered 600.

Among those responsible for the founding of Ferrum was Dr. Benjamin M. Beckham, then presiding elder of the Danville District, who became the school's first president. The Woman's Missionary Society, under the leadership of their president, Miss Lutie Roberts, and the Board of Missions of the Virginia Annual Conference of the Methodist Church provided the initial funds. Together they were able to secure land for the campus, a faculty of six, and ninety-nine students when the school opened its doors in 1914.

Ferrum continues to operate under the auspices of the Virginia Annual Conference of The United Methodist Church and the United Methodist Women of the Virginia Annual Conference.

As public educational facilities became more available, Ferrum's branch schools were closed. In the early 1940s the elementary division was closed, and in 1955 the high school department was discontinued so that the educational programs could be concentrated in the junior college work that had begun in 1926. The junior college received accreditation from the Southern Association of Colleges and School, now called the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) in 1960.

Under the guidance of Ferrum's seventh president, Dr. C. Ralph Arthur, the college's enrollment increased to over 1,000, and the campus experienced dramatic physical improvements, with over 11 new facilities being constructed in the early 1970s. They included modern classroom, dormitory, and athletic buildings, as well as a new student center, library, audio-visual center, science laboratories, chapel, gymnasium, and football stadium.

In 1974 the college began to offer bachelor's degrees in five human service fields. In December 1976 the college was awarded accreditation as a four-year college by the Southern Association of Colleges and Schools now called the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). The last associate degrees were awarded in 1991.

Today the College offers thirty-one degree programs leading to the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, and Bachelor of Social Work degrees.

The presidents of Ferrum have been Dr. Benjamin M. Beckham, 1913-1934; Mr. John A. Carter, 1934-1935; Dr. James A. Chapman, 1935-1943; the Reverend Luther J. Derby, 1943-1948; Dr. Nathaniel H. Davis '24, 1948-1952; the Reverend Stanley E. Emrich, 1952-1954; Dr. C. Ralph Arthur, 1954-1970; Dr. Joseph T. Hart, 1971-1986; Dr. Jerry M. Boone, 1987-2002; and Dr. Jennifer L. Braaten, 2002-present.

Setting

Set in the heart of the Blue Ridge Mountains of southwest Virginia, Ferrum College provides the ideal environment for study and cultural enrichment. The college's proximity to the mountains and to nearby lakes enables students to enjoy many outdoor activities, including picnicking, hiking, camping, fishing, boating, swimming, and skiing.

The Blue Ridge Parkway, one of the nation's most scenic highways, is only a 30-minute drive from campus. Even closer to the Ferrum campus in a wooded setting within sight of the Blue Ridge Mountains is beautiful Philpott Lake. In nearby Patrick County is Fairy Stone State Park, which takes its name from the lucky fairy stones found in the region.

A few miles to the east of Ferrum lies Smith Mountain Lake, well known for its recreational facilities that feature campgrounds, picnic areas, and marinas. In this natural setting, Ferrum College offers a unique opportunity for the student and the lover of nature.

Ferrum is located just 35 miles southwest of Roanoke, Virginia, where an abundance of shopping, dining, and cultural-recreational facilities are to be found. Air and bus transportation are available to other points from Roanoke. The college, however, is not responsible for the transportation of students at any time. Rocky Mount, the county seat and the center of commercial activity for Franklin County, is about 10 miles from the college.

Academic Sessions

The college operates on the semester system. The Fall semester lasts usually from August until December and the Spring semester lasts usually from January until May. The College has its Experiential Term (E-Term) for three weeks in May.

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 the College receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The 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 ask the College to amend a record that they believe is inaccurate. They should write the College official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate. If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
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

Student Conduct Records

The Office of Residence Life and Housing has the responsibility of maintaining judicial records of all documented violations of Community Standards. These records are maintained for a period of three years from the time a student graduates or leaves the 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 Affairs 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.

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 the College to disclose directory information from their education records without prior written consent, he or she must notify the College's Registrar, Ferrum College, P.O. Box 1000, Ferrum, VA 24088, in writing by September 15th (if the student begins school with the spring semester, by January 31st). 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
- - Campus email address
- - 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 offices of Student Affairs and Registrar.

Campus Facilities

Student Residence Halls

All college-owned student housing has the following amenities: cable, internet, free laundry, parking decal if needed, meal plan, furnishings and paid utilities.

FERRUM VILLAGE EAST AND WEST, 602 Apartments, and HILLCREST APARTMENTS house approximately 100 upper-class men and women students in one and two bedroom apartments. Students living in these facilities will have a choice of a modified meal plans.

ARTHUR and MOORE HALLS house 50 students each. Each student room has cable and ethernet connection. Students living in these apartments have a full meal plan.

BASSETT HALL houses approximately 420 students in an attractive suite arrangement.

DYER HALL is a companion facility to Clark Hall. It houses 117 students with the availability of a 1,000 square foot conference room for activities.

ROBERTS HALL, a historic campus building, was built in 1921 and completely renovated in 2006. This residence hall houses 45 students and faculty offices.

CHAPMAN, RIDDICK, and SUSANNAH WESLEY HALLS are situated around scenic Adams Lake and together house approximately 450 students.

MARGARET CLARK HALL houses 117 students with hotel-style rooms with private bathrooms. This facility currently houses upper-class students and is located adjacent to Chapman Hall.

Instructional Buildings

BECKHAM HALL was built in 1921, completely renovated in 2005, and is used for business, mathematics, computer science, and liberal arts courses.

BLUE RIDGE INSTITUTE AND MUSEUM, the Virginia State Center for Blue Ridge Folklore since 1986, is located on the main campus near the Blue Ridge Farm Museum. It provides offices for the Institute staff and contains exhibit areas, classroom and archives area. The facility was enhanced with an addition for expanded exhibit space in 2012.

BRITT HALL houses classrooms and faculty offices.

GARBER HALL includes the mathematics, science and computer classrooms and laboratories along with a 175-seat auditorium, a greenhouse and student/faculty research and lab space. Two new laboratories and a lecture room were added in 2012.

GROUSBECK MUSIC CENTER houses the music department. In addition to classrooms, the building has an ensemble room, practice rooms, media center, and faculty teaching labs.

SCHOOLFIELD HALL was built in 1924 as a chapel and later renovated as a performing arts center. The facility, which includes the Sale auditorium and a separate flexible theater, houses the college drama department.

STANLEY LIBRARY contains approximately 115,000 volumes supplemented by over 400 periodical subscriptions, 40,000 electronic books, and a growing collection of multimedia materials, including computer software. In addition to the book stacks and the periodical and reference areas, the building houses the Academic Resources Center, an audio-visual center, two auditoriums, 3

computer labs, and classrooms. The library also contains the campus art galleries. An open stack policy gives students ready access to all printed materials. Stanley Library is open every day of the week during the academic year. Construction of an 8,500 square foot addition to the library was completed in Fall 2003. The new addition houses classrooms, a computer laboratory, seminar rooms, and other academic space with state-of-the-art equipment.

SWARTZ CLASSROOM ANNEX new for 2011. Offers state-of-the art interactive classrooms.

VAUGHN CHAPEL, a unique fairy stone-shaped building, includes a 600-seat chapel and an education wing which houses the art department and classrooms. A freestanding bell tower houses the 23-bell carillon.

Physical Education and Sports Facilities

THE HANK NORTON CENTER is a 30,000 sq. ft. state-of-the-art facility that serves as a home-base for Ferrum's outdoor sports. It includes offices, locker rooms, team rooms, a training facility, a weight room, a classroom and Sports Hall of Fame.

W. B. ADAMS ATHLETIC COMPLEX includes a 5,000 seating capacity football stadium, soccer/lacrosse field, new lighted baseball field, softball field, 10 all-weather surface tennis courts, and a field house.

HANK NORTON FIELD HOUSE contains locker rooms for both the Panthers and visiting teams, showers, toilets, laundry, equipment storage, training room, and film room. Offices for the coaches are also located in the Field House.

INTRAMURAL FIELDS are available for football, soccer, lacrosse, and softball.

W. P. SWARTZ GYMNASIUM houses a 1,200-seat basketball court, a swimming pool, locker facilities, and athletic offices. An addition to this facility houses three new classrooms.

THE YMCA AT FERRUM COLLEGE houses two basketball courts, two racquetball courts, and a weight and exercise area. This facility received a major update which included additional fitness space and equipment in 2012 when it became a YMCA facility. All students, and full-time faculty and staff are members of the "Ferrum Y".

Supplemental Facilities

ADAMS LAKE, in the center of campus, and two nearby ponds stocked with fish are used for class instruction.

TITMUS AGRICULTURAL CENTER is an area used to demonstrate agricultural and environmental techniques and provide practical experience in the application of principles and techniques studied in the classroom. This tract of 80 acres contains pasture and cropland and storage facilities and a barn and greenhouse completed in 2009. It is located within a mile of the main campus.

AGRICULTURAL RESEARCH CENTER is used by faculty and students for laboratory and research use in agriculture-related projects.

ALUMNI HOUSE serves as the welcome center for alumni and friends of the college. It is located on Ferrum Mountain Road (Rt. 602) behind the Hank Norton Center. The Alumni Director's office is located at this facility.

The BOOKSTORE offers text books as well as supplies and gift items, and Gevalia coffee in the News Cafe.

The ENGLISH BIOMASS ENERGY AND RESEARCH COMPLEX. This facility, currently under construction, will use alternative renewable fuels to heat and provide a portion of the electricity to

campus. The complex also includes a research component for faculty and students to investigate options for renewable fuels.

The FERRUM OUTDOORS HOUSE. Ferrum Outdoors recently relocated to this renovated facility located on 40 W, just down from the Ferrum Mercantile. The Ferrum Outdoors Director's office is located in this building, which serves as a meeting place for Ferrum Outdoors trips/activities.

FRANKLIN HALL provides dining services and houses student activities offices, post office, lounges, conference rooms, Papa Johns and Subway restaurants. This facility was completely renovated in 2005.

RICHESON HALL houses History and Political Science faculty offices.

JOHN WESLEY HALL, the oldest building on the Ferrum campus, was opened in 1914 and houses the College's administrative offices.

SPILMAN-DANIEL HOUSE, originally a staff residence, was initially renovated through a gift from the late Mr. and Mrs. Louis Spilman and expanded in 1998 in memory of Mr. John W. Daniel by his wife Mrs. Ethelyne Fulcher Daniel '43. It houses the Admissions and Financial Aid Offices.

EARL G. SKEENS ALUMNI/CONFERENCE CENTER. This 16,000 square foot addition to Franklin Hall, completed in 2006, offers a premier banquet and meeting space for up to 250 guests, meeting and lounge space for alumni and the nationally known Anthony Giesen Gallery of American Brilliant Cut Glass.

While some campus facilities do not fully accommodate students with specific disabilities, special needs are addressed on an individual basis. Ferrum College is making reasonable efforts to comply with the Americans With Disabilities Act. The Campus 504 Coordinator, at (540) 365-4596, can provide detailed information about facilities and services for disabled students.

THE PINE HOUSE. Human Resources, including Student Employment and work-study, recently relocated to this updated and renovated facility located at 109 Ferrum Mountain Road.

TRI-AREA COMMUNITY HEALTH AT FERRUM. This community health center offers medical services and pharmacy services for prescriptions to the entire campus community and surrounding community.

Campus Life and Services

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 Office 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 departments within Student Affairs implement programs that address the developmental needs (social, recreational, educational, and cultural) and personal needs of each student. As a result, "education" is much more than the facts learned from a textbook or lecture; it includes the development of the total person.

Student Leadership and Engagement

Students can develop leadership potential, leadership skills, and career related learning, but best of all have fun by participating in co-curricular activities and intramural programs sponsored by the Student Leadership and Engagement Office. The purpose of the Student Leadership and Engagement Office 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.

Religious Life

As an institution of higher education related to the United Methodist Church, Ferrum College seeks to create an environment that fosters spiritual growth and development. Students from all religious traditions are encouraged to participate in programs that have as their goal the celebration of our religious beliefs and values and how those beliefs shape and impact our future and our world.

As we journey through college and into the world, questions of faith often arise. Ferrum College employs a full-time Dean of the Chapel who is available to assist students with these transitions. The Dean of the Chapel practices an open door policy in the Campus Ministry Office on the lower level of Franklin Hall.

Worship has always been a vital part of our faith formation experience. Ferrum College offers a midweek interdenominational worship service based on the Christian faith. Students, faculty, staff, and the local community come together to worship and celebrate God's actions in their lives. Vaughn Chapel is open throughout the week for students, offering a place for quiet reflection on their spiritual journey.

In addition to Ferrum College's midweek worship service, churches representing most of the major faith traditions are located in the surrounding community. These churches also offer worship opportunities. The Campus Ministry Office can assist students in finding a church/house of worship of their choice.

The Campus Ministry Center offers the Christian Ministries Center (known as the Lighthouse) as a place for students to gather for faith based studies, personal quiet time, and fellowship. The Lighthouse includes two large screen TVs, surround sound entertainment system, eight inch chess set, and kitchen facilities. The Wight Meditation room located on the backside of the house offers students a place for quiet meditation. The Lighthouse is open two Saturdays a month and as scheduled for other events.

Other opportunities for religious and spiritual growth as well as work teams and mission opportunities are scheduled through the Campus Ministry Office in both the Fall and Spring Semesters.

Mu Sigma Chi, a student Christian fraternity, also offers Bible studies and social gatherings, service projects, and retreats as spiritual growth opportunities.

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.

Fine Arts and Cultural Series

Ferrum College offers a wide variety of cultural programs for the campus and the community. The Mitchell Seminar, the Women’s Leadership Conference, and the Business Symposium are among the major invited lectures each year. In past years, the National Players, Shenandoah Shakespeare Express, and Namu Lwanga performed on campus.

Student Government Association

The Student Government Association (SGA) of Ferrum College is composed of all 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 and 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 eligible and encouraged to participate in one or more of the student clubs and organizations. These groups are involved in service projects, activities, and programs related to academic programs, as well as a wide variety of special interests. A complete listing of clubs and organizations is available in the Student Handbook at www.ferrum.edu/student_links/online_documents/index.html. The Student Leadership and Engagement Office serves to connect students to clubs and organizations. Hazing or inappropriate treatment of club members is strictly prohibited. The hazing policy is outlined in the Student Handbook under Special Policies.

Campus media organizations are a vital link in establishing meaningful communication throughout the campus community. Through the *Iron Blade* (student newspaper), the *Chrysalis* (student literary magazine), and FerrumRadio.com, a student can gain valuable experience as a writer, editor, disc jockey, and photographer. Most College media organizations are under the direction of the Communications Board which is composed of students, faculty, and staff.

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 gallery art shows, major drama productions, Concert Choir, the Handbell Ensemble, the Ferrum College Jazz Ensemble, the Ferrum College Collegiates, and the Blue Ridge Performing Arts Series.

Many students wish to develop their talents in music and theatre while at Ferrum although they do not plan full-time careers in these fields. They may select individual courses in these performing arts or may choose to complete a minor. It is also possible to have concentrated study in two areas of the fine arts or to major in theatre arts.

Academic and Professional Organizations

National honor societies at Ferrum include Alpha Chi for junior and senior students; Lambda Sigma for sophomore students; Alpha Delta Mu for student in the social work program; Alpha Mu Gamma for foreign language students; Psi Chi for psychology students; Phi Alpha Theta for history students; Kappa Delta Pi for education students and Kappa Pi for art students. There is also a professional language organization for Russian students, Students in Free Enterprise (S.I.F.E.), 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

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

Perhaps the most popular participatory activity on campus is the program of intramural sports and activities for men and women. Intramural teams compete in basketball, flag football, soccer, softball, volleyball, and other sports.

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.

Ferrum 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 College is a member of the USA South Athletic Conference.

Honors and Awards

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.

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

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 Student Counseling Office directly (540-365-4219) during normal business hours, Monday through Friday, 8:30 a.m. – 5:00 p.m. to schedule an appointment. If the counselor is meeting with another students and not able to answer the phone, students may either leave a message or call the Dean of Students Office (365-4461). Education sessions and peer groups will be conducted on campus by the counselor and will be free of charge to Ferrum College students.

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. As an alternative, the counselor may continue working with a student beyond the eight free sessions at a cost to the student of \$20 per session. Additional costs will be billed to the student's account in a way that protects their confidentiality.

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 him/herself 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. Based on the recommendation of the counselor and College officials, the student may be required to:

1. undergo evaluation by a mental health counselor in the emergency room at Carillion Franklin Memorial Hospital,
2. inform his/her parents of the situation and make necessary transportation arrangements,
3. be actively involved in counseling on a regular basis with a counselor if he/she is allowed to remain enrolled,
4. be informed of policies regarding withdrawal from the College

Career Services Office (CSO)

The Career Services Office's (CSO) primary purpose and mission is to assist Ferrum 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 managed. 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 learning and implementing the employment or graduate school process. Each year, from the Freshman through Senior classes, there are activities that are developmentally appropriate for students to engage them in the career planning process.

The Career Services Office staff offers individual and group advisement, interactive computer assessment (FOCUS 2), resume reviews, job market reviews, mock interviews for individual and panel interviews (using video critique), 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, such as CareerShift, for the job search process including: resume storage, and e-mail deliveries to employers of choice. There is information for free practice test opportunities for the Graduate and Professional School entrance tests. Job notices received from employers are sent to faculty and students.

One or more internships are recommended for students as employers seek evidence of practical experience in the student’s major area or study. The Career Services Office also provides a career week each year, focusing on career planning for underclassmen and employment search programs for upperclassmen, on-line career research resources, on-line employment seeking resources and four career fairs each year.

The CSO is located in the Career and Leadership Center in the lower level of Franklin Hall. The Career Services Office website, www.ferrum.edu/career, will connect students to most of our services and resources anywhere the students or alum may be. If you have questions about the Career Services Office’s programs, contact the office at 540-365-4259.

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.

Residential Education

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 given to the Dean of Students, with approval granted by a committee chaired by the Dean of Students (or designee).

Student Responsibilities

Each student is expected to exercise good judgment and consideration in his or her interactions with other students and members of the college community. Personal integrity is assumed and once a student is admitted to Ferrum College, it is expected that he or she will conduct himself or herself honorably and will abide by the Community Code and Standards outlined in the Ferrum College Student Handbook which can be accessed online at www.ferrum.edu/student_links/online_documents/index.html. The Ferrum College Community Code 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 the assistance to colleagues on campus in fulfillment of their responsibilities.
- - Vigilance in 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 the campus.

To ensure the successful implementation of the Community Code, the students, faculty, and staff have designed Community Standards of Conduct. The standards are designed to assist members of the college community in reaching their highest potential.

The 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 College policies and procedures outlined in the Student Handbook, which can be accessed online at www.ferrum.edu/student_links/online_documents/index.html.

Student 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.

To aid in the development of a living-learning environment, residence halls are staffed with qualified professional staff and student staff members. The residence hall staff work cooperatively with all offices of the college to develop a comprehensive program.

Residence hall rooms are equipped with beds, desks, closets, dressers, and chairs. It is the responsibility of the student to provide trash cans, draperies, lamps, rugs, linens, pillows, etc.

Students may bring televisions, stereos, radios, refrigerators (no more than 5 cubic feet), microwave ovens (up to 1000 watts), and other items to personalize their rooms. All electrical appliances must be approved by the residence hall staff prior to installation.

Community Standards and Judicial Education

All students are expected to abide by the Ferrum College Community Standards and Residence Hall Policies as developed by the community for the community as stated in the Student Handbook, which can be accessed online at www.ferrum.edu/student_links/online_documents/index.html. These standards are developed with the input of students and are meant to establish a residential learning community in which students are responsible for their actions at all times.

Judicial Education is based on the statements outlined in the Ferrum College Student Handbook which can be accessed at www.ferrum.edu/student_links/online_documents/index.html. Judicial Education is meant to be an educational tool for self-growth. It is the objective of Judicial Education to assist in modifying those behaviors deemed unacceptable in order that a positive environment can exist. A detailed description of Judicial Education may be reviewed online in the Student Handbook.

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 www.ferrum.edu/student_links/online_documents/index.html. Students are responsible for following its provisions.

Student Internal Complaint System

Please refer to the Student Handbook at www.ferrum.edu/student_links/online_documents/index.html.

Student Services and Information

Dining Service - Franklin Hall Dining Hall

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/week plus \$175/semester in Dining Dollars for use at Subway, Papa John's, Crazy Cuke, The News Café (Proudly Serving Starbucks) or the Dining Hall plus 3 guest meals per semester.

Meal Plan B: 15 meals per week plus \$325/semester in Dining Dollars for use at Subway, Papa John's, Crazy Cuke, The News Café (Proudly Serving Gevalia) or the Dining Hall plus 3 guest meals per semester.

Resident Meal Plans (included in board fees):

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 Subway, Papa John's, Chuckwagon, The News Café (Proudly Serving Gevalia) or the Dining Hall plus 3 guest meals per semester.

These students may request Meal Plan A or Meal Plan B by contacting Kim Allen at kallen@ferrum.edu to request the meal plan change. There is an additional \$550 charge per semester which has to be paid through Student Accounts (540-365-4239) located in John Wesley before Meal Plan A or B can be issued.

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. Commuter students may place money on their Ferrum ID Card (\$20 minimum) using cash or check at the Dining Services Office (540-365-4453) located in Franklin Hall. Commuter students may also pay cash prices when eating at any of our food venues (The Dining Hall, Subway, Papa Johns, The News Café, and Chuckwagon).

The Ferrum College I.D. 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 I.D. for Dining Hall transactions: 1) Retrieve I.D. 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 4) Purchase a new Ferrum College I.D. card.

- Shirt and shoes are required in the Dining Hall. Hats cannot be worn inside 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, Subway, Crazy Cuke, The News Café (*Proudly Serving Starbucks*) or Papa John's.
- 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.

- **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.**

Dining Hall Hours of Operation when classes are in session:

Monday-Thursday

Breakfast	7:00 am-9:45 am
Light Breakfast	9:46 am-10:59 am
Lunch	11:00 am-2:15 pm
Light Lunch	2:16 pm-4:29 pm
Dinner	4:30 pm-7:00 pm

The Dining Hall will close at 6:30 pm on Friday

Saturday & Sunday

Brunch 10:30 am -1:00pm

Dinner 4:30-6:00pm

Please note: During inclement weather when classes are cancelled or delayed, the Dining Hall will open at 10:00 am and may close at 6:00 pm based on employee availability.

When deciding about the appropriate meal plan consider

- how many meals are normally eaten per day
 - participation in athletic or club activities
 - whether The News Café (Proudly Serving Starbucks), Crazy Cuke, Subway or Papa John's food choices are desirable
-

Questions or concerns regarding meal plans or the Dining Hall should be directed to Kim Allen, Operations Manager, in the Dining Services Office at 540-365-4453.

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

Ferrum College Food Court

(Hours of Operation will change during the summer)



540-365-4454 Subway is located in the lower level of Franklin Hall and is owned and operated by the College. Cash, check, dining dollars, credit/debit cards are accepted. Loyalty cards can also be used to earn points towards free food and can also be used as a gift card. Please call the store for more information. Students are updated on specials and other important information via campus email and Facebook.



EXPRESS 540-365-5000 Papa John's Pizza EXPRESS is also located in the lower level of Franklin Hall and is owned by the College. Papa John's accepts cash, dining dollars and debit/credit cards. It specializes in a convenient grab and go lunch for busy students! This location features a limited lunch time menu that includes 8" pizzas, cheese sticks, breadsticks, wings and poppers. Open Monday through Friday 11am – 2pm.



540-365-4500 Papa John's Pizza is conveniently located across the street from the main campus on route 40, and is owned by the College. Papa John's accepts cash, dining dollars and debit/credit cards. Gift cards, called Papa Cards, are available to purchase and can be purchased over the phone by using a credit card. Please call the store for more information. Specials and hours of operation are sent out via campus email and Facebook. On campus delivery is also available.



540-365-4400 The Metro Deli is one of our new venues located across the street from our main campus and is part of Mountain Creek Café. It is owned by the college. Our deli features all natural Metro Deli Meats and a variety of cheeses. They also serve hand-dipped ice cream, sundaes, and milk shakes from our local Homestead Creamery. Cash, dining dollars, credit/debit cards are accepted. Please call the store for more information. Specials and hours of operation are sent out via campus email and Facebook.



Ferrum Mercantile and Bakeshop is located on route 40 across the street from main campus, and is owned by Ferrum College. The mercantile features fresh baked doughnuts and muffins. Special occasion cakes can also be made by our experienced cake decorator. "We Proudly Serve" Starbucks coffee, as well as many other signature drinks. The retail section features products from the Amish Country, Homestead Creamery milks and butter, as well as offering gifts ideas from local artists, and vendors. A truly unique blend of old country meeting modern convenience! Cash, dining dollars, credit/debit cards are accepted. Opens at 6am Monday through Friday. Specials and hours of operation are sent out via campus email and Facebook.



540-365-4471 The News Café is located on the north side of the Book Store and is College owned. It features Gevalia brand coffee, along with doughnuts, muffins and cookies baked

fresh daily at our Ferrum Mercantile Bakeshop. The News Café accepts cash, dining dollars and debit/credit cards. Please call the store for more information. Specials and hours of operation are sent out via campus email and Facebook.

The Chuckwagon (formerly The Crazy Cuke) is located in front of the Ferrum Mercantile. It features BBQ sandwiches as well as hot dogs. MUCH more can be found at this convenient grab-n-go venue. Please check campus email and Facebook for specials and updated menu.

PLEASE “LIKE” FERRUM COLLEGE DINING SERVICES ON FACEBOOK TO RECEIVE IMPORTANT UPDATES, LEAVE SUGGESTIONS, RECEIVE DAILY MENUS AND INFORMATION ON SPECIAL EVENTS!

Post Office

All students are assigned mail boxes at the post office in Franklin Hall. Official mail from the College 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

Students wishing transportation to and from mass transit terminals in Roanoke should make arrangements with a friend in advance of their trip. The Ferrum Express is a free service that is also open to the public. Maps and Schedules can be found online at www2.ferrum.edu/express.

E-Mail and Internet Access

Students are provided e-mail addresses and have access to the Internet via computers located in various computer labs, or through their own computer or smart-phone.

Cable Television

Cable television service is available in each residence hall room on campus at no additional charge. Additional information about cable television services can be found on the Panther Portal. Contact the Help Desk, Stanley Library 105 (lower level), for additional information.

Vacation 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 will be closed during these breaks. Any person entering into halls without written permission will be considered trespassing and may be subject to discipline, up to and including suspension or expulsion. 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 unless they are involved in approved graduation activities or immediately beginning summer employment. Special permission to remain on campus may be granted by the Dean of Students (or designee) at the request of the student. All College standards apply as long as the student remains on campus. Students are not permitted to have guests on campus during the time between final exams and graduation. Students violating College standards will be asked to leave campus immediately and may face judicial sanctions.

Motor Vehicles

A student may keep a motor vehicle on campus, provided it is properly registered with the 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 College Police Office for short-term vehicle use.

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.

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 Admissions Office, which is located in the Spilman-Daniel House, at (540)365-4290 or 1-800-868-9797 or online at www.ferrum.edu/admissions/prospective_students/visit. Staff are available weekdays for interviews and tours from 9 a.m. until 4 p.m., and by appointment, on Saturdays from 9 a.m. to noon, 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 General Educational Development Test (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, extracurricular activities, SAT I 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:

English	4	Foreign Language	3
Social Science	4	Fine Arts	1
Math (at least Algebra 1)	4	Electives/Other	6
Science (1 lab)	4		

On a selective basis the College is willing to consider students whose preparation does not include all of these subjects. Although personal interviews are encouraged, they 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 G.P.A. 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 section).

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 Admissions Office 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 Admissions Office. 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 I) or the American College Testing (ACT) be sent to the Admissions Office.

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 I) or the American College Testing (ACT). This requirement may be waived in some instances. Information on dates and fees can be obtained from a high school guidance office or by contacting: College Board SAT Program, Princeton, NJ 08541 (www.collegeboard.org), or American College Testing Program (ACT) Box 414, Iowa City, Iowa 52243 (www.act.org).

How to Accept an Offer of Admission

A student wishing to attend Ferrum should inform the college no later than 30 days after receiving an official letter of acceptance. The entering student must send a \$250 confirmation deposit (refundable until May 1) with the completed acceptance forms. The health form and roommate survey must be completed and returned to the appropriate offices at least one month prior to a student's enrollment.

Special Admissions Categories

Admission as a Special Student

Individuals registering for fewer than 12 semester hours per term may be admitted as special students.

Admission as a Transfer Student

Ferrum 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 Admissions Office. Transfer students with more than 24 hours of transfer credit may be exempt from submitting high school transcripts and college entrance tests.

All courses which correspond to those offered at Ferrum, and which have been passed with a "C" or better grade, will be accepted for credit towards graduation. Students with transferable credit will not be required to repeat equivalent course content at Ferrum. 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.

Direct Transfer

When a student who has graduated 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 into Ferrum College, Ferrum College agrees that the student has satisfied the Liberal Arts Core requirements portion of its graduation requirements. If the student has not had a 3-credit Bible-based course as part of the Associate degree curriculum, then Ferrum College will require that the student successfully complete REL 111, 112, 113, or PHI 131. The student must satisfy all other graduation requirements including writing intensive, speaking intensive E-Term, and experiential learning requirements.

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 Admissions Office.

Admission as an International Student

International students desiring admission to the college are encouraged to apply as early as possible. They must submit to the college:

1. Copy of high school transcript translated into English.
2. 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.
3. Personal Financial Information sheet (provided by the Admissions Office).

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.

Readmission for Former Ferrum Students

Former Ferrum students seeking readmission should write to the Dean of Admissions. Readmission petitions from students who are not in good academic standing will be reviewed by the Registrar's Office and the Dean of Admissions. Students must also be in good standing with student accounts and student affairs before petitions for re-admission will be considered. Full-time students who leave the 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).

Advanced Placement and Credit by Examination

Ferrum College offers advanced placement to those students who satisfactorily demonstrate a high level of proficiency in a given subject area. Advanced placement (exemption from lower-level courses) is sometimes granted on the basis of nationally normed tests, or on occasion, on locally prepared departmental tests. Decisions are based on individual cases and require the approval of the appropriate Dean.

Course credit as well as advanced standing may be earned through the Advanced Placement Test Program of the College Entrance Examination Board, the College Level Examination Program, and the International Baccalaureate 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. Official scores are required before credit can be granted.

Qualified students may also earn credit for Ferrum courses by successfully completing locally prepared departmental examinations. Students interested in pursuing this possibility should consult with the program coordinator of the program which offers the particular course. No more than 10% of a student's coursework at Ferrum College may be earned by such examinations (see Miscellaneous Fees).

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 2.000 or better academic average. Veterans must provide their DD-214 along with any military transcripts to the Registrar's Office.

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 and transfer students and their parents or guardians are introduced to the campus during a Panther Pre-Registration Assessment Weekend in the Summer (PAWS). 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 counseling, advising, orientation, and social gatherings. These programs are part of Ferrum's comprehensive Connection Gateway – First Year Experience Program (see Connection Gateway – First Year Experience Program section).

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 Vice President for Academic Affairs. Students approved for a leave of absence must also apply for readmission as

described in the section below. Financial aid recipients should check with the Financial Aid Office as federal guidelines do not allow for more than a 180 day leave of absence without impacting your aid. Students withdrawing mid semester should see “Withdrawal from College” section.

Expenses and Financial Assistance

College expenses and the availability of financial aid are considerations of immense importance to both students and their parents. Ferrum 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 2014 - 2015 academic year are listed below.

Expenses (2014 - 2015)

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)

Per Semester	Resident Student	Day Student
Tuition/Fees	\$14,840	\$14,840
Room/Board* (Average Rate)	\$4,800 - \$5,175	

Students are billed prior to the beginning of each semester.

Payment in full for the first semester is due by August 1, 2014.

Payment in full for the second semester is due by December 15, 2014.

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

Part-Time Tuition/Fees

One to six hours: \$595 per credit hour

Seven to eleven hours: \$825 per credit hour

Special Instructional Fees (In addition to tuition*)

Field Placement Fees – Education Courses

300-level (6 credit hours or less) \$110*

300-level (more than 6 credit hours) \$175*

Student Teaching Fee \$330*

Course Overload (per credit hour over 19 hours) \$595*

Art/Theatre Arts Fees \$50 - 125*

Science Lab Fees \$20 - \$40*

HHP Course Fee \$10*

Math Course Fee \$75 - \$140*

Private Music/Dance Lessons

One credit hour \$300*

Two-three credit hours \$595*

No one may take more than 3 credits of private lessons per semester.

Independent Study (per credit hour) \$595*

Audit Fee (per credit hour) \$300*

Internship (If enrolled in other classes) \$150*

Internship (If not enrolled in other classes) Minimum Fee \$1,000

OR Per Credit Hour Rate \$200

Miscellaneous Fees

Credit by Examination Fee \$240

Car Registration (for Day Students only) \$35

Replacement of ID Cards \$35

Pre-Registration and Assessment Weekend in the Summer (PAWS) for Student and 2 Family Member (\$20 for each additional Guest) \$85

Graduation Fee \$125

Student Activities Fee \$115

Late Check-In Fee \$100

Health Education Fee (if applicable) \$20

E-Term Cost – Fees may apply.

Part-time (1-6 credits) Tuition fee applied if taking more than the one E-Term

required.

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

Dual Enrollment – No charge for the first class each semester. Additional classes charged at part-time rate.

The college reserves the right to make necessary adjustments in the fees at any time. Textbooks and student supplies are sold through the College Bookstore. The annual estimated cost for these items is \$800.

Payment Options

Full payment or payment arrangements to cover the entire balance for the current academic year (tuition and fees less financial aid) is required before participating in any college program and before attending any class.

Check or Money Orders

The Student Accounts Office is open Monday – Friday from 8:00 a.m. to 5:00 p.m. You may contact Student Accounts via e-mail at stdacctm@ferrum.edu or by phone at 1-800-868-9797- option #7.

The College will receive checks or money orders at the address below:

Ferrum College
Attn: Accounting Dept.
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**, access to your account through their web site.

Visit *Tuition Management Systems* web site www.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 1-800-725-4867

Overload Fee

No student may take more than 19 hours of credit per semester without the approval of the Vice President for Academic Affairs of the College. If such approval is granted, the student will be

charged \$595 per semester hour for all course work in excess of 19 hours.

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 Plan 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. Any unpaid balances after September 1 may be subject to a finance charge.

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

Institutional Withdrawal Policy (Also applies to moving off campus during the semester)

SCALE 1: Students who withdraw will be charged for tuition, room and board, based on the following:

During the first week of the semester	20%
During the second week of the semester	40%
During the third week of the semester	60%
During the fourth week of the semester	80%

SCALE 2: In situations involving suspension or expulsion of a student, charges for tuition, room and board will be based on the following:

During the first week of the semester	40%
During the second week of the semester	60%
During the third week of the semester	80%
During the fourth week of the semester	100%

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 20% of total Ferrum College Grant funds if they are charged 20% 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 40% and only receive 20% 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 (Week 4), 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 \$2775 Pell Grant, \$350 SEOG, \$7000 Ferrum Grant, \$750 Perkins, and \$1742 in Subsidized Stafford Loan for a total of \$12,617 (both Federal and Institutional funds) for the semester.

Total Federal Funds	\$5617
multiplied by percentage earned	30%
Federal Funds Earned to Date	\$1685.10

Essentially the institution would be required to refund \$3931.90 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 (4th Friday of class or end of drop/add period) they will lose eligibility for state aid such as the Virginia Tuition Assistance Grant (VTAG), College Scholarship Assistance program (CSAP), and Higher Education Teacher Assistance Program (HETAP).

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’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 Assistant Grant, Ferrum College Merit Grants and Scholarships, and alternative educational loans available through lending institutions.

Financial Aid Application Procedure

1. New students will automatically receive aid information from the Ferrum College Admissions Office; returning students should use PIN numbers received in the previous academic year.
2. The Free Application for Federal Student Aid (FAFSA) must be completed after January 1 of each year. Priority deadline for receipt of the FAFSA results is March 1 for new students and April 1 for returning students. (Please allow 4 weeks for processing by the servicer.) 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 Ferrum’s Financial Aid Office 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. New students will receive a revised award letter. Returning students will be notified electronically through email.
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 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 Financial Aid Office 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.

Tuition Assistance Grant (TAG)

Virginia residents who plan to attend Ferrum College will 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 2014 - 2015, the estimated grant amount is \$3,100. Applications are available from the college in the spring of each year. The completed application must be returned to the Financial Aid Office by July 31. Late TAG 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 TAG 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 for 2014 - 2015 is \$5,730.

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.

Endowed Scholarships

Numerous endowed scholarships are available to students who demonstrate financial need. A complete listing of these scholarships appears at the end of this section. Endowed scholarships may be used to replace the Ferrum Grant during the academic year. There are no additional applications for endowed scholarships.

Praise and Worship Team Scholarships

This scholarship is offered to eight students per year who are interested in singing and/or playing contemporary Christian music. The recipients of this scholarship will receive a \$1,600 award in exchange for their participation in weekly chapel services, required rehearsals, and other public relations obligations. An in-person or videotaped audition is required and can be arranged through the Dean of the Chapel's office. This scholarship is renewable annually if the recipient maintains a 2.5 G.P.A. and fulfills all other requirements of the scholarship.

Academic Scholarships

The 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, 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 \$3,500 to \$21,000. To be eligible, students 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 1080 on the three-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 more off campus will see their Ferrum College merit scholarships

and grants reduced. Students are advised to consult with staff in the Financial Aid Office 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 participate in the work-study program each year, working approximately 6-15 hours per week in areas as diverse as faculty and administrative offices, the library, science labs, 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 Perkins Loans

The Perkins Loan is a low interest federal loan. By completing the FAFSA, students with exceptional need are automatically considered for the Perkins Loan. Funds are borrowed at a five percent interest rate with repayment commencing nine months after the student graduates or drops below half-time enrollment. Repayment can be postponed or cancelled according to provisions listed on the promissory note. A Master Promissory Note and Entrance Counseling session are required before funds are eligible to for disbursement. The Promissory Note details the terms and conditions of the student loan and entrance counseling informs student borrowers of his/her rights and responsibilities in regards to borrowing through the Perkins Loan program.

Total repayment time for the aggregate loan amount ranges up to ten years. Each student with a Perkins Loan must complete an "Exit Interview" at Ferrum prior to graduation or withdrawal from the college.

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 contact the Financial Aid office 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

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 Financial Aid Office. Deferment options are available for PLUS Loans effective July 1, 2009.

Alternative Loans

In addition to federal loans, financing options are available through banks and other educational lending institutions. These options include both long and short-term loans, payment plans, and educational lines of credit; they are designed to assist students and their families who either are not eligible for federal grant and loan funds or who need additional educational financing. Most alternative loans require that the borrower/cosigner demonstrate credit-worthiness. Students are encouraged to read Ferrum College's Code of Conduct policy online at http://www.ferrum.edu/student_links/financial_aid/aid_types/loans.html.

United Methodist Aid Programs

United Methodist students are encouraged to apply for assistance from The United Methodist Church programs which are described below. Applications for all programs are available in the Financial Aid Office.

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 pre-collegiate

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. The maximum annual loan is \$5,000. Loan applications are available from the Financial Aid Office or can be requested from the General Board of Higher Education and Ministry at www.gbhem.org.

Endowed Scholarships

The college has established numerous endowed scholarships through donations from friends. A partial list of these funds may be found on the following pages. Most grants are made based on financial need as determined by the results of the FAFSA and on qualifications particular to the individual scholarships. Accepted students who have submitted a FAFSA will be automatically considered for these scholarships and will be notified if additional information is needed.

Archie Everett and Eugenia Long **Acey** Scholarship Fund
 Mr. and Mrs. William B. **Adams** Endowed Scholarship Fund
 Ruth McKenry **Ainsley** Memorial Scholarship
 Elizabeth Hite **Anderson** Memorial Scholarship Fund
Annandale United Methodist Women Endowed Scholarship
 Ruth and Alex **Armour** Scholarship Fund
 W. Barney **Arthur** Endowed Scholarship Fund
Astin Endowment for Christian Ministries
 William B. **Bales** Scholarship
 Richard '26 and Margaret **Barbour** Performing Arts Endowed Scholarship
Barton Heights United Methodist Church Scholarship Fund
 J. E. **Bassett** Endowed Scholarship
Bassett-Walker Scholarship
BB&T of Virginia-Roanoke Valley Region Endowed Scholarship
 Frederick **Beazley** Scholars Endowment
 Benjamin M. **Beckham** Endowed Scholarship
 Nannie Barrow **Beckham** Endowed Scholarship
 Flora East Spencer **Boone** Scholarship
 Harry E. **Born** Scholarship
 Lillian Rangeley Lanier **Bowles** Endowed Scholarship
 Charles T. Boyd '30 and Mary Lou **Bond** Endowed Memorial Scholarship
 George H. Boyd '32 and Mildred W. **Boyd** Scholarship Fund
 Walter Y. Boyd '49 and Mary Louise H. **Boyd** Endowed Scholarship
 Walter Y. and Helen Elizabeth **Boyd** Endowed Scholarship
 J. Marvin **Brammer** Endowed Scholarship
 Charles E. **Brauer**, Jr. Scholarship Fund
 General James **Breckinridge** Chapter NSDAR Endowed Scholarship
 Wavie Roberson **Brinkmann** Endowed Scholarship
 Charles Robert **Brogan** Endowed Scholarship

Virginia Grace **Brogan** Endowed Scholarship
Fae H. **Brown** Scholarship
Mary Evelyn **Bryant** Scholarship
Betty Jackson **Burrows** Endowed Scholarship
J. Lawson **Cabaniss** Endowed Memorial Scholarship Fund
Carilion Health System Endowed Scholarship
Sylvanus and Virgie **Carter** Family Memorial Scholarship
Worth Harris **Carter**, Jr. and Katherine S. **Carter** Scholarship Fund
Kirk Douglas **Cash** Memorial Scholarship
Central Virginia Scholarship
John F. **Chapman** '22 Memorial Scholarship
Oscar **Chapman** Work-Study Fund
Tom and Maggie **Chilton** Scholarship Fund
Mark Douglas **Clapp** '76 Memorial Endowed Scholarship
Mary Hoyle **Clark** Scholarship
Pauline Yates **Clark** '41 Endowed Scholarship
Walter H., Lina L. and Walter H. **Clark**, Jr., Scholarship Fund
Class of 1949 Endowed Scholarship
Selona Helms and Fred **Clifton** Work Program Scholarship Endowment
Olin R. and Patricia O. **Compton** Endowed Scholarship
Harold W. **Conant** Endowed Memorial Scholarship
Ralph W. **Corn** '31 Endowed Scholarship Fund
Lolene H. **Corron** Endowed Scholarship
Grayce Dodd **Cosby** Scholarship Fund
Court Street United Methodist Church of Lynchburg Scholarship
Jean F. **Craig** Endowed Scholarship
Bruce Eric **Cramer** Scholarship
Mark S. **Creech** '74 Scholarship
Henry W. and Ruby Sherwood **Crenshaw** Scholarship
Joseph Lovick **Crenshaw**, Sr., Memorial Scholarship
John F. **Crigler** Memorial Scholarship
Carl E. and Marcy J. **Crimm** Scholarship
Daniel Scholarship Fund
Danville District Laity Scholarship
Danville/Pittsylvania Business Scholarship
James A. **Davis** Endowed Scholarship
Nathaniel H. **Davis** Scholarship Fund
Derby Family Scholarship
Roberta Gardner **Drinkard** Endowed Scholarship
Jessie Ball **duPont** Endowed Scholarship Fund
Evelyn **Dwyer** Endowed Scholarship Fund
D. Frederick **Dyer** Memorial Endowed Scholarship Fund
Andrew Horsley and Anne Owen **Easley** Scholarship Fund
Austin Luther **Evans** Scholarship
Elsie Brogan **Evans** Scholarship
Faculty/Staff Work-Study Endowment
Ferrum College Endowment for Christian Ministries

Ferrum College Minority Endowed Scholarship
William Leland **Finney** Memorial Scholarship
First United Methodist Church, Martinsville Scholarship
Stanley O. **Forbes**, Sr., Endowed Scholarship
Fort Hill United Methodist Church Scholarship
Franklin County Scholarships
Clarence E. **Fries** Memorial Fund
Albert and Connie Gingrich Scholarship
Helen S. **Gleason** Scholarship
Golden Panthers Endowed Scholarship (Formerly 50-Year Club Endowed Scholarship)
K. Edward **Goode** '46 and Reva E. **Goode** '46 Scholarship
Reverend M.G. and Thelma **Goodpasture** Endowed Scholarship
Grand Master's Scholarship of the Grand Lodge of Virginia
Greater Hampton Roads Endowed Scholarship
Lillian Frances **Griffith** Memorial Scholarship
Vilrie E. **Griffith** '41 Scholarship
Mattie H. and Irving M. **Groves**, Sr. Memorial Scholarship
H.L. **Harris** Memorial Fund
Paul L. **Harris** '65 and Susan Lee **Harris** Endowed Scholarship
Randy **Harris** Memorial Student Endowed Scholarship
Mary Frances Rogers **Hartz** Scholarship
William Randolph **Hearst** Endowed Scholarship Fund for Minority Students
James M. and Martha E. **Hesser** Endowed Scholarship
Hillsdale Fund, Inc. Learning Plus Endowed Scholarship Fund
Kitty Sue and Clyde **Hooker** Endowed Scholarship
Grant **Hudson** Memorial Fund for Men's Basketball
Kyle **Hudson** Memorial Scholarship
John Kemper and Lelia Angle **Hurt** Endowed Scholarship
John L. **Hurt**, Jr., Memorial Scholarship
J. Wesley **Inge** Endowed Scholarship
Wiley N. **Jackson** Scholarship Fund
Thomas Roy & Virginia Quarles **Jarrett** Scholarship
Dr. Richard L. **Jasse** Endowed Scholarship Fund
Thelma and Charles **Jennings** Endowed Scholarship
Ruby Lawson **Jones** Memorial Scholarship
Rose M. and Robert L. **Kent** Scholarship
Rev. George Thomas **Kesler** Scholarship Fund
Virginia Wheat **Key** Memorial Scholarship
Isabelle H. and Irving B. **Kline** Endowed Scholarship
Lamberth Endowed Scholarship
Lane Memorial United Methodist Church Scholarship
Dorothy Hill **Lewis** Endowed Scholarship
Jeanne and Jody **Lewis** Scholarship
Myrtle G. **Linkous** Endowed Scholarship
Lorinda G. **Lionberger** Leadership Scholarship Fund
C. Wayne **Loree** Memorial Endowed Scholarship
Douglas F. **Love** '22 Memorial Scholarship

Mabel J. **Lowry** Endowed Scholarship
 Thelma and A. Tracy **Loyd** Music Scholarship Fund
 Albert W. and Marilaura W. **Lynch** Scholarship
 Anne Fruit **Mann** Endowed Scholarship
Martinsville-Henry County Scholarship
 Aubrey and Sissy **Mason** Scholarship
 George and Mary Hodges **Mattox** Endowed Scholarship
 William R. '24 and Eunice Hoyle '28 **Mattox** Endowed Scholarship
 Michael Stephen **May** '92 Endowed Scholarship
 The Ray Elwood **McAlexander** '52 Endowed Memorial Scholarship
 Mr. and Mrs. John A. **McKenry** Memorial Scholarship Fund
 Wilma Brogan **McPherson** Scholarship
 Charles G. **Menefee** '42 and Mary H. **Menefee** Endowed Scholarship
 Rev. William A. **Moon**, Jr. and Mrs. Wise J. **Moon** Endowment for Christian Ministries
 Anna Fowler **Moore** and Robert Harless **Moore** Endowment and Scholarship Fund (An outside trust established by the will of the late R. Stuart Moore)
 Melvin C. **Moss** Endowed Memorial Scholarship Fund
 Raymond E. and Louise **McDaniel** Musser Scholarship
 W.W. **Naff**, Jr./Rotary Club of Rocky Mount Endowed Scholarship
 Guy W. **Nolen** Endowed Work Scholarship
 Arthur S. **Owens** Scholarship
Patrick County Alumni Scholarship
 Louise Virginia **Pedigo** '20 Memorial Endowed Scholarship
 Fannie Walton **Peery** Memorial Scholarship Fund
 Richard F. **Pence** Memorial Scholarship
 Greg **Perdue** Endowed Memorial Scholarship
 J. Randolph **Perdue**, M.D., Scholarship
Perrow Scholarship
 Mary Virginia **Pharr** '93 Endowed Scholarship
 Mary C. and Robert T. **Pickett**, Jr., Endowed Scholarship
Powell Endowment for Philosophy Scholarship
 Roy H. **Price** Endowed Scholarship
 J. L. and Helen B. **Racey** Scholarship
 Curtiss Lee **Ramsey** '29 Endowed Scholarship
 Stanley **Reeves** Scholarship
 William A. and Ethel Noell **Reid** Endowed Scholarship Fund
 Dorothy B. **Rich** Endowed Memorial Scholarship Fund
 Emma May **Ridgeway** Endowed Scholarship
 J. J. **Riggs** Scholarship
 Branch King **Rives** Scholarship
 Ollie Hudgins and Arthur Parke **Roach** Endowed Scholarship
 Roanoke Electric **Steel** Scholarship
Roanoke Valley Scholarship
Rockydale Quarries Corporation Scholarship
Roediger Scholarship
 Joanna Marie **Rogers** Memorial Scholarship
 Sasha **Saari** Endowment for the Humanities

Marguerite R. **Sadler** Scholarship Fund
Wyness Tate **Saenger** English Scholarship
William Whidbee **Sale** & Virginia B. **Sale** Scholarship
Sara Lee Knit Products Scholarship
Charlotte E. **Seegars** Endowed Scholarship
Clyde R. **Seeley** Scholarship Fund
William Irving **Sharp** Endowed Scholarship
Edith C. **Sheridan** Scholarship
Carl B. **Short** Memorial Scholarship
Nellie Corn **Simms** '26 Endowed Scholarship
Paul and Eula Rakes **Simms** Memorial Scholarship
Earl G. "Bud" **Skeens**, Jr. Endowed Memorial Scholarship
Robert B. **Skinnell** and Georgia W. **Skinnell** Endowed Scholarship
Lillie Warwick **Slaven** Award
Raymond H. and Elva Bowling **Sloan** Endowed Scholarship
Smith Family Endowed Scholarship
Minnie B. **Smith** Scholarship
Myrtle King **Smith** Endowment Fund
Belle Young **Sommardahl** Scholarship
South Roanoke United Methodist Church Scholarship
Thomas W. and Nettie N. **Southgate** Scholarship
Oscar H. **Spencer** Memorial Scholarship
Roy C. **Stone** '22 Endowed Memorial Scholarship
The Algernon Sydney **Sullivan** Foundation Endowed Scholarship Fund
Adeline **Sunday** Scholarship
Ruth P. **Sutherland** Endowed Scholarship
Martha Lois Harris **Swann** '28 and Harvey K. **Swann** '28 Endowed Scholarship
T. Edward **Temple** Scholarship
Charles W. **Thomas** Endowed Scholarship Fund
Titmus Agriculture Endowed Scholarship Fund
T. Brook **Treakle** III Scholarship
United Methodist Women Endowed Scholarship
Virginia Collegium Scholars Endowment
Virginia Conference Endowed Scholarship
Wachovia Bank, N.A., Scholarship
Robert W. **Walker** Scholarship
Stuart Pannill **Ward** Scholarship
Raymond A. **Warlick**, Jr., Scholarship
Bobby **Watson** Endowed Scholarship
Avis Bassett **Weaver** Scholarship
Minnie A. **Webb** Memorial Scholarship Fund
Edward C. **West** Memorial Scholarship
Nina and Vincent **Wheeler** Endowed Scholarship
James R. **Wilkins**, Sr., Scholarship Fund
David A. **Williams** and Richard Lee **Polk** Endowed Memorial Scholarship
Forrest S. and Jean B. **Williams** Scholarship
Dr. J. M. **Williams** Endowed Scholarship

Mr. and Mrs. R. S. **Wilson** Endowed Scholarship

Grace Taylor **Wiltshire** Endowed Scholarship

E. Bryan and Ruth S. **Wright** Scholarship

Lorena George and Wasena Franklin **Wright, Sr.**, Endowed Scholarship

Academic Policies

Ferrum maintains a tradition of a comprehensive academic program built on a liberal arts base. The college strives to provide education in a Christian context and to maximize students' chances for 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.

General Academic Policies

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 "Admission for Former Ferrum Students" for additional clarification.)

Academic Advising

Student advising offers an opportunity for faculty to help students determine a suitable academic path and realize their educational and professional goals. In this partnership, the faculty members have responsibilities to foster the understanding of critical academic decision-making and choices. Students are expected to be proactively, cooperatively, and responsibly engaged in charting their academic paths. Ultimately the student is responsible for setting and meeting goals and published requirements. By emphasizing the importance of student responsibility and planning, student advising will encourage the exploration, discovery, acknowledgment and pursuits of academic options designed to advance the total college experience of students.

Each new student is assigned a faculty advisor; for first-time students the advisor is also the freshman seminar instructor. During the first semester, each new student interacts with this advisor in meetings designed to help students become familiar with college policies and with various college resources, as well as helping them understand their own responsibility for academic planning and personal success. Students are free to change their academic advisors at any time after the first semester and are directed to do so if they change majors.

Pre-Law Advisor

Students considering the legal profession choose from a variety of appropriate majors. To supplement individual academic advising, the Pre-Law advisor coordinates the planning and implementation of a Pre-Law course of study and career options.

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.

Campus-wide assessment at Ferrum involves everyone – faculty, students, administrators, and staff. 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.

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 Vice President for 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 choir performances. In these cases students must obtain written explanation of an absence from an appropriate source (sponsor, nurse, etc.), acceptable to the individual professor in order to be excused for the absence. Students assume the 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 course work 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 office of the Vice President for Academic Affairs of the College. Students who carry in excess of 19 semester hours will be assessed \$595 per excess semester hour.

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 Admissions Office and follow the regular admissions procedure.

Student Classification by Credit Hours

Freshman – A student who has been admitted to the college and has earned fewer than 24-semester credit hours.

Sophomore – A student who has earned at least 24-semester credit hours but fewer than 56-credit hours.

Junior - A student who has earned at least 56-semester credit hours but fewer than 88-credit hours.

Senior - A student who has earned at least 88-semester credit hours but who has not earned a bachelor’s degree.

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 four 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. Starting with the fifth week through the tenth week (or the third through the fifth week for half semester courses) courses dropped from a student’s schedule will be reflected by a WP or WF grade. After the tenth week (fifth week for half semester courses), a student may not drop a class. Failure to complete a class will result in a grade of “F.” In cases of extenuating circumstances a student may appeal to the Academic Standards Committee to drop a single class after the tenth week. All such appeals should be in writing and must satisfy one of the following criteria: (i) prolonged illness; (ii) family emergency; or (iii) documented unforeseen circumstances. Appeals to the Academic Standards Committee must be made before the end of classes via e-mail to academicstandards@ferrum.edu. A student whose appeal is granted will receive a grade of “W.”

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 assess a drop form on the Panther Portal and submit a completed form to the Registrar's Office 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 the college should do so officially to maintain good standing. The following are considered extenuating circumstances: (i) prolonged illness; (ii) family emergency; or (iii) documented unforeseen circumstances. They should obtain an official withdrawal form from the Registrar's Office to initiate withdrawal procedures. It is the responsibility of the student to complete the Withdrawal Form and acquire signatures from staff in the following offices: Student Affairs, Student Accounts, Financial Aid, Academic Advisor, Student Employment, Post Office, Residence Education, and Food Services. The student should officially drop his or her classes with their academic advisor if withdrawing before the tenth week of classes. Withdrawing students must 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 the Registrar's Office.

- 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 and tenth week will result in grades of "WP" or "WF" as granted by each faculty member.
- Withdrawals after the tenth week will result in grades of "F" regardless of academic performance.
- A student with extenuating circumstances may appeal to the Academic Standards Committee for grades of "W" prior to the last day of classes.

Involuntary withdrawals will be administered by the Office of Student Affairs. (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 refund of Title IV aid programs (Stafford loan, PLUS loan, Pell grant, SEOG, and Perkins loans). 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 Ferrum may seek readmission by writing the Dean of Admissions.

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 Vice President for Academic Affairs for course approval by submitting the required independent study form available in the Vice President for Academic Affairs Office. Once all signatures are collected, forms and required documentation are to be submitted to the office of the Vice President for Academic Affairs 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 student will be charged \$570 per credit hour in addition to tuition.

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 Vice President for Academic Affairs Office and should consult the Program Coordinator in their major. The student will be charged a \$150 fee in addition to tuition.

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 course work attempted at Ferrum and a 2.0 on all course work 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 Registrar’s Office.
5. An internship may not be added after the last day to add classes each semester.
6. The complete list of procedures and requirements can be viewed in the Internship Handbook.

Transfer Credit Policy

Ferrum College will accept transfer credit with a score of “C” or higher, (including distance education classes) from other regionally accredited institutions; however, degree recipients must complete at least 32-of their last 64-credit hours at Ferrum College. At least 50 percent of the hours required for a major and minor(s) must be completed at Ferrum. Transfer students are required to meet the Liberal Arts Core requirements, including writing intensive, speaking intensive, experiential requirements, and term (E-Term) requirements, as outlined in the catalog. This requirement may be waived at the discretion of the Program. 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. 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 credit does not enter into the grade point average for honors.

Grading System

Grade-point averages are determined by dividing the total quality points earned by the number of semester hours of attempted course work. 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 G.P.A. This F will be recorded on the transcript as FF. The Honor Board is responsible for notifying the Registrar’s Office 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 when passing or failing without penalty (assigned only by the Academic Standards Committee). Appeals to the Academic Standards Committee must be made prior to the end of classes via e-mail at academicstandards@ferrum.edu.
- 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 English 101 and Math 100. The grade is intended for under-prepared 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 Registrar's Office.

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.” Although only the higher grade obtained in a repeated course is included in a student’s grade-point average, it should be noted for transfer purposes that other institutions may consider total hours attempted in calculating the G.P.A. A Penalty “F” (See Grading System) may be repeated, but the “F” is still computed in the grade-point average.

Retention Alerts

Faculty members are encouraged to use Retention Alert for students who are not performing satisfactorily (e.g., poor attendance, assignments not turned in, daily grades). Students are expected to review their progress and to seek help from instructors, advisors, the ARC or other support services as soon as they experience problems in class.

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 Registrar’s Office.

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 course work, 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 by clicking on Academic Profile, Transcript link, immediately after the grades are entered by the professor. Transcripts may be requested on the Panther Portal by clicking on Academic Profile, “Transcript Request” link.

Grade Review Process

Grade reviews involving evaluation or credit in a course should be directed to the faculty member who taught the course. 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 Vice President for Academic Affairs. Except in unusual circumstances, a student must seek review in writing within six (6) weeks after the grade is given. However, after consultation with the appropriate School Dean and the Vice President for Academic Affairs, the final authority for establishing a grade and awarding credit lies with the faculty member.

Graduating with Honors

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

- Summa Cum Laude – 3.8
- Magna Cum Laude – 3.6
- Cum Laude – 3.4

Dean’s List

The Dean’s List of students whose grade-point average is at least 3.4 out of a possible 4.0 is confirmed at the end of the fall and spring semesters. A student must be full-time (have earned 12 hours) to qualify for the Dean’s List.

Academic Support Services

Academic Resources Center

The Academic Resources Center provides academic assistance for the entire student body. It is located on the ground level of Stanley Library. The various components of the ARC include the academic success curriculum, FOCUS (a two-week pre-college academic session), College Skills courses (CSK), the Peer Assisted Learning Program, individual tutoring and special study sessions. Tutoring services are available Sunday-Thursday between 5 p.m. and 10 p.m. providing free tutoring for all students in content courses.

Peer Assisted Learning (PAL)

Peer tutors are assigned to primarily (but not limited to) introductory level courses. The student PAL facilitator attends each class and establishes a schedule for study sessions twice a week, as well as extra sessions prior to major tests. Students may also schedule one-on-one sessions with the PAL 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.

Writing Center

Staffed by English faculty, 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-Terms. There is no charge to the student for this tutorial service.

Mathematics Center

The Mathematics Center provides assistance to students for any level of math and math related courses offered at Ferrum College, including homework, test preparation and projects in upper level math or math related courses. Math faculty are available according to scheduled hours to provide tutoring and help during the week and during evening hours. The Center is located on the main floor of the Stanley Library near the entrance off the Library/Schoolfield Patio.

Information Services Help Desk and Computer Labs

The Information Services Help Desk in the lower level of Stanley Library 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 assistance 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 Compute 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.

Office of Academic Accessibility Services (OAAS)

Students who seek academic accommodations must submit current disability documentation to the Director of Academic Accessibility Services (OAAS) to request the desired accommodations. The Director's office is located in the lower level of Stanley Library, Office #110. The email address is nbeach@ferrum.edu and telephone number is 540-365-4529. Academic services are available during the fall and spring academic semesters.

Academic Opportunities

FOCUS: First Opportunity for College Undergraduate Success

FOCUS is a pre-college experience, that is held for two weeks in the summer during which incoming freshmen can earn college credit. Students register for FER 105, Introduction to College Living and Learning. Experiences are designed to facilitate academic growth as students transition from high school to college. Students participate in curricular and co-curricular activities that help develop skills and readiness for college. FOCUS also helps students develop critical thinking skills, a sense of community, and connection to the Ferrum College campus.

Connection Gateway – First Year Experience

The Connection Gateway – First Year Experience Program addresses issues and concerns shared by new Ferrum 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 Connection Gateway includes: PAWS, Connection Weekend, and GWS 101, all explained below. New students, both freshmen and transfers, and their parents or guardians are introduced to the campus during a Panther PAWS (Pre-Registration Assessment Workshop in 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.

Boone Honors Program

The Boone Honors Program has both curricular and co-curricular components. The curricular components are designed to enhance the honors student's overall undergraduate experience, including the general education program and study in the major and minor(s). The 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 G.P.A. 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. Students who do not meet eligibility criteria upon entry but make the Dean's List at Ferrum may apply for membership; such students should contact the honors director or the admissions office for a more complete description of the honors program and procedures for entering it.

Students who complete the Honors Program graduate with a special honors designation on the diploma and are awarded the Boone Honors Medallion at Commencement. They will have completed four special 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 G.P.A. of 3.2 or higher for these seminars, and must also maintain a cumulative G.P.A. of 3.4 or higher throughout their program. Please refer to Course Descriptions under the Honors (HON) course designation for a current list of special honors courses and descriptions.

Additionally, honors students take 12 hours of honors-enriched courses. These honors-enriched courses will be regularly taught courses, generally in the student's major or minor, in which honors students undertake individualized enrichment projects. 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 this requirement through an E-Term course (thus completing another general education requirement). Scholarship funding of up to \$3,000 is available for the honors student for the Study Abroad experience.

Honors students get priority pre-registration, and resident honors students are offered special housing options. Finally, Honors students also are regularly invited to participate in a number of social and cultural outings to museums, lectures, and entertainment venues, at no cost to them. Contact Dr. Lana Whited, Director of the Boone Honors Program, for more information.

Freshman Scholar Program

The Freshman Scholars Program is a 2-week pre-college residential program for incoming freshmen in which Scholars partner individually or in pairs with a faculty member on a scholarly research project before they enroll in their fall semester courses. After application, interview, and acceptance, students register for FER 109, Freshman Scholars, 3 credits. The experience is designed to facilitate the development of academic and mentoring relationships with faculty members, cultivation of meaningful connections with fellow students, and integration into the College and surrounding community.

Writing Program

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. The faculty, therefore, expects students to show increasing skill in stating logical, unified ideas, developing concepts, organizing appropriate formats, and using language both correctly and effectively. To 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. The faculty at Ferrum College realizes its responsibility for helping students become competent writers. All faculty members are encouraged to require at least one significant and appropriate writing assignment in each of their classes. These assignments may vary greatly depending on the nature of the discipline and the structure of the course. These written assignments will be evaluated for the elements of good writing as well as content.
2. 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.
3. The college provides the Writing Center as a tutorial service for students. Faculty may refer students to the center, or students may go on their own. The Writing Center provides individual tutoring in writing and assistance with individual papers.
4. The college also offers a Fundamentals of Writing course for students who need additional preparation before entering the traditional freshman composition courses.
5. Individual departments may establish additional writing elements for their classes.

International and Intercultural Learning Opportunities

Ferrum 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 (Introduction to Sociology), ESC 102 (Introduction to Environmental Science), and ENG 102 (Composition and Research II). Students who have already received credit for ENG 102 may obtain

credit for ENG 207 instead. 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. So participants do site visits to locations under study, learning fundamentals of critical thinking through original research.

- **Study Abroad:** 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 Ferrum 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, have been popular with Ferrum 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.

Standards of Satisfactory 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 standards designed to set 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.

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 Ferrum with 30-41 transferable hours will be considered to have completed three semesters; consequently, his or her first Ferrum semester will be considered the fourth, and he or she must meet the appropriate Grade Point Average (in chart below) based only on course work at Ferrum.

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; rather, readmitted students will be evaluated individually by the Registrar's Office 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 and citizenship records, in making this determination.

In order for satisfactory progress to be demonstrated, a part-time degree-seeking student must complete 75% of all hours attempted and maintain the minimum cumulative grade point average specified on the following chart based on cumulative hours earned. A student who is part-time during any regular semester will be evaluated by this standard at the end of all subsequent semesters. In addition, a part-time student who has not passed at least half of the hours attempted in any single semester will be placed on academic suspension.

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 (see next section). 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 Registrar’s Office. The student should contact this office for any question regarding academic status.

After completing a total number of semesters	1	2	3	4	5	6	7	8	9	10
A student must have earned a total of _____ semester hours	9	19	30	42	55	68	81	94	107	121
With at least this cumulative G.P.A.	1.40	1.60	1.80	1.90	2.00	2.00	2.00	2.00	2.00	2.00

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 must comply with the program of study for students on warning coordinated by the Academic Resources Center. This program requires students on academic warning to register and attend a required College Skills course, CSK 092, and use the ARC and other appropriate campus resources. Students on warning who fail to meet these requirements will have their names submitted to the Dean of Academic Affairs’ Office. Placement of academic warning will also impact a student’s financial aid eligibility. See “Financial Aid Policies” in the next section.

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 chart above), he or she will return to good standing. If not, he or she will either be placed on academic probation or academic suspension (see below).

Academic Probation

At the end of any semester during which the student has been on academic warning, if the student does not return to good standing, and has passed at least six hours, he or she will be placed on academic probation.

A student on academic probation must comply with the program of study for students on probation coordinated by the Academic Resources Center. This program requires students on academic probation to register and attend a required College Skills course, CSK 096, and use the ARC and other appropriate campus resources. Students on academic probation will review progress, assess problems, and plan their return to good standing through enrollment in the required College Skills course. Placement on academic probation will impact a student's financial aid eligibility. See "Financial Aid Policies" in the next section. 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 chart above), 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.

The Academic Resources Center will maintain records of students' use of services in the ARC. 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)
- Clubs and class organizations (officers)
- Art shows and major drama productions unless required for satisfaction of course requirement
- Student media organizations (editors and managers) unless required for satisfaction of course requirement

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

At the end of a semester on academic probation, if a student fails to meet the published standards (see chart) of satisfactory academic progress, he or she will be placed on academic suspension. Regardless, any full-time student who does not earn at least six hours of credit in a semester will be placed on academic suspension at the end of that semester.

A student on academic suspension may not be enrolled during the next regular semester at Ferrum College, although he or she may enroll in any summer courses. Students seeking readmission following academic suspension should show evidence of being able to do acceptable college work. This is normally accomplished by successful course work 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 at Ferrum or at another institution. Approval of transferability **must** be obtained prior to enrolling in a course at another institution from the Registrar's Office at Ferrum College by using the pre-approval form available on the Panther Portal (click on Student Services, then the Registrar Link). An official transcript must be sent to the Registrar's Office. In order for grades to transfer back to Ferrum students must earn a "C" or higher

Enrollment at Ferrum College obligates the student to pursue actively the earning of college credit. Students who are absent excessively or refuse to complete assigned course work may be subject to suspension at any time.

All appeals of academic 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

New 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.

New 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 student 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.

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 either be placed on Financial Aid Probation for one semester or 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 Registrar's Office. 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 Financial Aid Office regarding their 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 Registrar's Office and mark the folder accordingly. The student will then be reviewed for financial aid for the next semester.

Academic semesters are defined by the college's Calendar 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.

In order to demonstrate satisfactory academic progress, a student must earn a minimum number of hours, earn a minimum GPA, and must complete a bachelor's degree within a maximum 150% of full-time study. The 150% requirement requires that a student may not earn more credit hours than 150% of what is required for the degree program (i.e., if the student's degree program requires 120 credit hours then 150% of 120 equals 180). This time frame may be appealed. Please review the Appeals Process under Financial Aid Policies for additional information.

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. The 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% requirement as discussed above. The student will have met the 150% requirement if they have accumulated 180+ credit hours. The 150% limitation may be appealed due to extenuating circumstances.

To appeal the 150% limitation, the student **must** submit a letter of appeal to the Financial Aid Appeals Committee, C/O Financial Aid Office, P.O. Box 1000, Ferrum, VA 24088 detailing why additional time is necessary to complete the degree and when the student expects to complete his/her program of study.

To appeal, Academic Standing, the student **must** submit a letter of appeal to the Financial Aid Appeals Committee, C/O Financial Aid Office, P.O. Box 1000, Ferrum, VA 24088 Appeals **MUST** contain: Why students 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.

Students are also expected to obtain their degree within five academic years. Students who are entering their sixth year of coursework will be required to appeal for financial aid as well based on length of time of their program. Appeal letters in this circumstance must detail why the student needs additional time to complete their degree program and what circumstances have occurred to prohibit the student from completing within the five year time frame.

Students will be notified by letter 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.

Degree Requirements

Ferrum awards the Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, and Bachelor of Social Work degrees, depending on the major the student pursues. All degree candidates must complete at least 121 hours of course work, 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 percent of the hours required for a major or a minor must be completed at Ferrum. 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](#).

Graduation Requirements

Students must utilize the assistance of faculty advisors in the formulation of an acceptable course of study leading to a degree and should review their progress frequently to be sure they are in compliance with all degree requirements. Prior to registration all students with Junior or higher status are required to complete an academic worksheet with their advisor. Utilizing the Panther Portal Academic Planning Link click Create/Add to Worksheet. The student and the advisor will review the student's academic record and complete the worksheet for meeting graduation requirements. Both the student and the advisor will review the catalog, program evaluation and the academic worksheet each semester and adjust the worksheet based on the course rotations and schedule of offerings. Completed forms must be submitted to the Registrar's Office for approval. The student is ultimately responsible for ensuring compliance with all degree requirements.

To graduate, a student must:

- have completed the Application for Graduation. The link is available on the Panther Portal by clicking on Academic Planning link. Students will complete the application for graduation link and a diploma order form from the Registrar's Office by September 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. 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 Degree Specific Requirements, Experiential Component, and pass one Experiential Term (E-Term)).
- satisfy the Speaking Intensive requirement in order to demonstrate the ability to access, analyze, synthesize, and share ideas and information through oral presentation. This requirement can be fulfilled by completion of COM 201 (Public Speaking), ENG 433 (Small Group Communication), EPD 498 (Senior Project), HUM 333 (Intercultural Conflict Mediation), SPA 302 (Advanced Speaking and Comprehension), THA 222 (Voice and Diction), THA 346 (Readers Theatre), or any two courses identified as Speaking Intensive with a grade of "C" or higher such as ENG 398 (Junior Seminar) and 498 (Senior Seminar) or NSM 307 (Junior Seminar) and NSM 498 (Senior Presentation).

- satisfy the Writing Intensive requirement in order to demonstrate the ability to access, analyze, synthesize, and share ideas and information by writing. This requirement can be met by completing six hours of courses identified as Writing Intensive with a grade of “C” or higher. Completing English 102 with a grade of “C” or higher is a prerequisite for any Writing Intensive course. Students who have completed one sophomore literature course to meet the distribution requirement (English 201-212) may take a second sophomore literature course at Ferrum College to meet three hours of Writing Intensive requirement. At least three hours of Writing Intensive courses must be at the 300-400 level. 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.

- be enrolled for at least one academic year or its equivalent at Ferrum.

- have completed at least 50 percent of total hours required for a major at Ferrum. This requirement may be waived at the discretion of the Program Coordinator in association with the School Dean.

- have completed at least 50 percent of total hours required for a minor at Ferrum. This requirement may be waived at the discretion of the Program Coordinator in association with 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 to Ferrum 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.

- be approved for graduation by formal vote of the faculty.

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 have submitted proof of summer registration with the Registrar to complete the work prior to the beginning of the next fall term. Unless excused by the Vice President for Academic Affairs of the College, all degree candidates must participate in graduation exercises. Students requesting to be excused must submit a letter to the Vice President for Academic Affairs.

Degree Specific Requirements

These requirements may consist of up to 12 hours of additional coursework as designated by the major and may include, but are not limited to: foreign language, accounting, computer science, PHI 101, BUS 230, HUM 250, COM 201, additional laboratory science, additional mathematics, etc.

Liberal Arts Core Requirements

A multidisciplinary range of academic courses distributed across the academic schools of the college provides the foundation upon which the Ferrum curriculum is built. It is the college's belief that the skills and knowledge in these courses are fundamental to the development of a college graduate. All bachelor's degree students at Ferrum College must fulfill the following 37-hour Liberal Arts Core:

Freshman English (ENG 101 and 102)	6
Bible-based Course (REL 111, 112, 113, PHI 131 or HON 206)	3
<i>**Students who take REL 111 will not receive credit for REL-112 or REL-113</i>	
Religion/Philosophy (any REL, PHI or HON 206, 225)	3
Activity Course (designated course in DAN, HHP (including HHP 200) or REC)	1
Fine Arts (any three-hour ART, THA, MUS or HON 211)	3
Mathematics (MTH 105, 107, 111, 112, 203, 211, or HON 205)	3
Natural Science (laboratory courses in AGS, AGY, ASI, BIO, CHM, EPD, ESC, GEO, HOR, PHY, SCI or HON 225)	6
Literature (ENG 200 - 213 or RUS 401, 402 or SPA 403, 404, or HON 210, 220)	3
History (HIS 101, 102, 201, 202, 205, 206 or HON 210, 220)	6
Social Science (DJC 201 or ECO 201, 202 or PSC 101, 202, 203, 205 or PSY 201 or SOC 101, 202, 203 or HON 220)	3
Total Liberal Arts Core Hours Required	37

Note: With appropriate qualification, students who wish to substitute higher-level courses for specifically designated courses may do so only with the prior written permission of the appropriate School Dean.

Speaking Intensive Requirement

Speaking Intensive courses provide students the opportunity to develop and demonstrate their ability to access, analyze, synthesize, and share ideas and information through oral presentation. This requirement can be fulfilled by completion of COM 201 (Public Speaking), ENG 433 (Small Group Communication), EPD 498 (Senior Project), HUM 333 (Intercultural Conflict Mediation), SPA 302 (Advanced Speaking and Comprehension), THA 222 (Voice and Diction), THA 333 (Musical Theatre II), THA 346 (Readers Theatre), or any two courses identified as Speaking Intensive e.g. NSM 307 (Junior Seminar), NSM 498 (Senior Presentation); ENG 398 (Junior Seminar), ENG 498 (Senior Seminar), with a grade of "C" or higher.

Writing Intensive Requirement

Writing Intensive courses provide students the opportunity to develop and demonstrate their ability to access, analyze, synthesize, and share ideas and information by writing. This requirement can be met by completing six hours of courses identified as Writing Intensive with a grade of "C" or higher. Completing English 102 with a grade of "C" or higher is the prerequisite for any Writing Intensive course. Students who have completed one sophomore literature course to meet the distribution

requirement (English 200-213) may take a second sophomore literature course (English 200-213) or an upper-level foreign language literature class (RUS 401 or 402, or SPA 403 or 404) at Ferrum College to meet three hours of the Writing Intensive requirement. At least three hours of Writing Intensive courses must be at the 300-400 level. 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 following courses will meet the Writing Intensive requirement:

- BUS 403 Human Resource Management
- BUS 498 Senior Seminar: Business Policy
- COM 433 Media Scriptwriting
- COM 483 Senior Synthesis Seminar
- CJU 498 Senior Seminar
- CSC 498 Senior Research Seminar
- ECO 313 Money and Banking
- ECO 330 International Trade
- EDU 302 Foundations of Education
- ENG 301 Literature for Children and Adolescents
- ENG 310 Media Issues
- ENG 311 News Writing and Editing
- ENG 338 Rhetoric
- ENG 350 Appalachian Literature
- ENG 361 British Literature 1660-1798
- ENG 365 Shakespeare
- ENG 398, 498 Junior and Senior Seminar
- ENG 428 Contemporary Lit. and Film
- ENG 461 Professional Writing
- EPD 498 Senior Project
- ESC 302 Conservation Biology
- HIS 306 Women in 20th Century America
- HIS 309 The United States 1900-1945
- HIS 310 The United States since 1945
- HIS 380 Latin America
- HIS 398 Historiography
- HIS 498 Senior Seminar with HIS 499 Senior Thesis
- HON 213 Media and Violence
- HON 216 The Sixties
- HON 435 Values and Vocation
- HUM 302 African American Studies: "Forty Years and a Dream"
- MTH 420 Foundation of Geometry
- MTH 498 Senior Research Seminar
- NSM 307, 497, 498 Junior and Senior Seminar
- PHI 301 Fundamentals of Writing Philosophy
- PHI 498, 499 Senior Seminar in Philosophy
- PSC 310 Political Parties and Groups in the United States
- PSC 435 Political Economy of Development
- PSY 307 Behavioral Research Methods II

- REC 360 Recreation Leadership Theory and Philosophy
- REC 440 Recreation Seminar
- REL 315 Studies in the Gospels
- REL 316 Life and Letters of Paul
- REL 481 Seminar in Religious Studies
- REL 482 Seminar in Religious Studies
- SOC 470 Social Science Research Methods
- SSC 490 Stewardship toward Sustainability Capstone Seminar
- SWK 320 Social Welfare Policy
- SWK 330 Human Behavior
- THA 301 World Theatre I
- THA 302 World Theatre II

Experiential Component

Experiential education is a philosophy of teaching and learning, and a set of instructional methods in which educators purposefully engage with learners in direct experience and focused reflection in order to increase knowledge and develop skills within a discipline. Experiential education is an educational strategy that connects the classroom to the world beyond the classroom and theory with practice. Ferrum College students complete an experiential component as part of their major.

Definition of Service Learning

Service learning is a form of experiential education in which students engage in activities that address individual and community needs employing structured opportunities intentionally designed to promote student learning and development. Reflection and mutual benefit for student, college, and community are key concepts of service learning. Service learning may involve various forms of research and scholarship.

The Experiential Term (E-Term)

The E-Term is a three week term which offers a variety of two-, three- and four- credit hour courses that apply to the liberal arts core and some majors. E-Term is offered the three weeks immediately following graduation each year. **Effective 2009-2010 academic year**, all returning students will be required to pass only one E-Term without requesting to change catalogs. Returning students who entered under catalogs requiring two E-Terms will be allowed to take a second E-Term at no additional tuition/room & board cost. All new entering students, effective 2009-10 will be required to take and **pass** one E-Term course. New students entering in 2009-10 will be required to take and **pass** the one E-Term requirement before they achieve senior status in **order not to delay graduation**.

All classes are taught by Ferrum College faculty through the Ferrum College campus. A majority of the courses offered do not require prerequisites and are appropriate for students entering their second or third semester of college. There are no additional tuition or room/board costs attached to the E-Term session. (If a student wishes to take more than the required E-Term course, tuition and

room/board costs will be applicable.) Any costs for travel, laboratory, etc. in an E-Term course will be listed with the course description during pre-registration.

Currently enrolled/full-time students will register for E-Term courses when they pre-register for spring semester. The last day for currently enrolled full-time students to register for E-Term is the last add date during the first week of the spring semester. Students **must** register for a minimum of 12 hours for the regular spring semester. Students are obligated to all course fees if they do not drop by the fourth week of the semester. An E-Term course will **not** count in those 12 hours but could put a student in an “overload” status for spring semester if the student registers for 18-19 hours and then registers for an E-Term course. However, overload fees for this situation will not apply. The last day to drop an E-Term course is the first day of the E-Term classes. Students will be obligated to pay any fees by this deadline.

Part-time students must register by the “last day to ADD” the first week of spring semester (the add/drop week). Part-time students will be charged for a course during E-Term at the same credit-hour rate as they are during the long semester.

Factors for consideration for registration in E-Term courses:

- Students who are in good academic standing may register for any E-Term course and are eligible for travel scholarship opportunities.
- Students who are on academic warning during fall semester 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, off campus travel/ travel abroad, but they will be eligible to register for on campus E-Term courses.
- If the student is in good academic standing during fall semester, and at the end of the fall semester:
 - o Goes to academic warning status for the spring semester, the student will remain in the E-Term course in which he or she is enrolled and will be allowed to retain any travel scholarship that has been awarded for an E-Term course (awards are announced in November).
 - o Goes to academic probation status for the spring semester, the student will be dropped from any E-Term course in which he or she is enrolled that has overnight off campus travel/travel abroad before the spring semester begins. All fees will be refunded and any travel scholarship award will be forfeited.
 - o Goes to academic suspension status for the spring semester, the student will be withdrawn from all classes for the spring semester, including the E-Term course. Any fees paid, including the deposit, will be refunded. Any travel scholarship award will be forfeited. If the student appeals the 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/travel abroad.

- 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/travel abroad during add week in the spring semester. Students opting to do this will be responsible for immediate payment of applicable deposits and fees and are not eligible for travel scholarships due to deadline expiration.
- 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/travel abroad course. The student will be responsible for all fees, based on the date of being placed on disciplinary probation or higher.
- Students who are not performing well in multiple classes during spring semester should be encouraged to strongly consider strategies for academic success or to drop the E-Term overnight off campus travel/travel abroad course before the deadline to drop an E-Term class without fee obligation to avoid required obligation for all fees. Students taking this advice to withdraw before the deadline to drop an E-Term class without fee obligation will be refunded all fees including the deposit.
- Students enrolled in an E-Term course involving overnight off campus travel/travel abroad whose grades in spring semester (excluding the E-Term course) result in academic suspension will be withdrawn from the E-Term course and obligated to all fees for the course without opportunity for refund. Scholarships will not be applicable and the student will be obligated to the full fee.
- Regardless of 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 after the typical November registration time for an E-Term course must accept decisions made by the instructor in any class meetings missed due to late enrollment and agree to any additional restrictions set by the course instructor to insure student safety.

Degree Designations

The B.A. or B.S. is generally determined by the nature of the Program of Study. The major indicates the degree available and the Degree Specific Requirements for that major and degree. Some majors may offer a choice of degree, and such choice will involve certain Degree Specific Requirement choices.

The B.F.A. degree is an option for majors in the Theatre Arts.

The B.S.W. is awarded to all Social Work majors.

Programs of Study (Majors)

A major is a focused, disciplinary or interdisciplinary program of academic concentration. There are two kinds of majors at Ferrum: those which require a minor and those which do not. 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 Core requirement. Note: At least 50% of the required courses for any major must be completed at Ferrum.

Minors

Minors are a group 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.

Certificates

Certificates are a group of related courses and experiences that complement both major and minor programs of study. Successful completion of certificate requirements is noted on the student's transcript, thus acknowledging to prospective employers the accomplishment of a value-added education guided by the student's own initiative that goes beyond the standard programs of study and better prepares the individual for life and work in the twenty-first century. Certificates may be earned as a way to add to one's educational portfolio. Certificates, however, will not be awarded without the completion of a degree.

Declaring/Changing Programs (Majors)/Minors/Certificates

Students may declare programs (majors), minors, and certificates with their academic advisor. The advisor will complete a Program Change Request Form available under 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.

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.

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 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 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 Core Requirement courses in effect at the time of the second degree must be completed (either by current or previous course work);
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 course work 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 course work completed for the major and second degree;
5. A person seeking a second degree must be admitted through the regular admissions process.

Majors in Schools

(Minors are not listed below. For a complete list of minors see page 154)

Note: Students must complete at least 50 percent of the total hours required for a major at Ferrum College.

Arts and Humanities

Art	Religion
English	Russian
History	Social Studies
Media and Communication	Spanish
Philosophy	Theatre Arts

Natural Sciences and Mathematics

Agricultural Sciences	Environmental Science
Biology	Health Sciences
Chemistry	Mathematical Science
Environmental Studies	Pre-Professional Science

Social Sciences and Professional Studies

Accounting	Health and Human Performance
Business Administration	Liberal Arts
Computer Information Systems	Political Science
Criminal Justice	Psychology
Democracy, Justice and Civic Engagement	Recreation Leadership
General Business Studies	Social Work
International Studies	Teacher Education (minor)
	Note: In the state of Virginia students may not major in Teacher Education but may pursue teacher licensure through this offering.

Other

Liberal Studies

Certificate Programs

See page 143 - 150

Accounting

B.S. Degree

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.

The Experiential Component (requirement of the major) can be met by successfully completing at least two (2) hours from the following:

ACC 290, 390, 490 Accounting Practicum	1(each)
BUS 190, 290, 390 Free Enterprise Strategies and Implementation	1(each)
ACC 499 Internship	3
BUS 499 Internship	3

Liberal Arts Core and Degree Specific Requirements

ECO 201 Principles of Macroeconomics	3
ECO 202 Principles of Microeconomics	3
MTH 203 Concepts in Calculus	3
MTH 208 Introductory Statistics	3

Required Courses for the Major (39 Hours)

ACC 201 Principles of Accounting I	3
ACC 202 Principles of Accounting II	3
ACC 301 Managerial Accounting	3
ACC 302 Intermediate Accounting I	3
ACC 303 Intermediate Accounting II	3
ACC 405 Taxation	3
BUS 230 Computer Applications	3
BUS 303 Management	3
BUS 308 Business Communications	3
BUS 311 Marketing	3
BUS 313 Business Finance	3
BUS 315 Business Law	3
BUS 498 Business Policy	3

Choose four of the following courses. At least two must be accounting courses and one must be either ACC 408 or BUS 325:

ACC 304 Advanced Accounting	3
ACC 306 Governmental & Non-profit Accounting	3
ACC 401 Advanced Studies in Cost Accounting	3
ACC 403 Auditing	3
ACC 407 International Accounting	3
ACC 408 Accounting Software Applications	3
BUS 314 Advanced Corporate Finance	3
BUS 325 Advanced Computer Applications	3
BUS 330 Quantitative Methods	3
BUS 331 Production/Operations Management	3
ECO 313 Money and Banking	3
ECO 400 International Finance	3
ECO 405 Government and Business	3
Total	12

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

Total Hours Required in Major 53-54

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

B.S. Degree

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 Animal Science, Agribusiness, Agronomy, or Horticulture.

Agricultural Sciences (AGS) is comprised of four emphasis areas: Animal Science (ASI), Agribusiness (AGB), Agronomy (AGY), and Horticulture (HOR).

The Experiential Component requirement of the major shall be met by successfully completing the following:

AGS 110 Agricultural Sciences Issues
 AGS 180 - 481 (any two) Practicum in the Agricultural Sciences
 NSM 499 Internship

Required Liberal Arts Core Requirements

CHM 101 Fundamentals of Inorganic Chemistry 4
 CHM 105 Introduction to Organic and Biochemistry 4

Degree Specific Requirements

BIO 111 General Biology 4
 MTH 208 Introductory Statistics or 3
 ESC 202 Quantitative Environmental Methods and Statistics 4

I. Common Required Courses (22 hours)

AGS 110 Issues in Agricultural Sciences 3
 AGS 180 - 481 Practicum in the Agricultural Sciences 2
 BIO 202 Introduction to Plant Science 4
 AGS 417 Agricultural Business Management 3
 NSM 307, 497, 498 Junior & Senior Seminar 6
 NSM 399 Professional Preparation 1
 NSM 499 Internship 3

II. Emphasis Areas (Choose one)

A. Animal Science (ASI) Required Courses (34 hours) (Teacher Education option)

ASI 201 Introduction to Animal Science 4
 ASI 232 Livestock Evaluation and Judging 3
 ASI 302 Animal Nutrition 4
 AGS 314 Animal and Plant Breeding and Genetics 4
 ASI 316 Domestic Animal Anatomy and Physiology 4
 BIO 413 Animal Diseases 3
 ASI 414 Domestic Animal Reproduction 4

Choose TWO from the following courses: 8

AGY 301 Principles of Field and Forage Crop Production, AGY 315 Soil Science and Management, HOR 321 Plant Propagation, HOR 415 Plant Diseases, HOR 418 Plant Pest Management

Total Required for Agricultural Sciences with Animal Science Emphasis 56

B. Agribusiness (AGB) – Required Courses (30 hours)

ASI 201 Introduction to Animal Science	4
ACC 201 Principles of Accounting I	3
ACC 202 Principles of Accounting II	3
ECO 201 Principles of Macroeconomics	3
ECO 202 Principles of Microeconomics	3
BUS 311 Marketing, BUS 313 Business Finance, or BUS 318 Introduction to Electronic Commerce	3
BUS 320 Entrepreneurship	3
Choose TWO from: AGY, ASI, HOR	8

Total Required for Agricultural Sciences with Agribusiness Emphasis 52**C. Agronomy (AGY) – Required Courses (35 hours)**

ASI 201 Introduction to Animal Science	4
AGY 301 Principles of Field and Forage Crop Production	4
AGS 314 Animal and Plant Breeding and Genetics	4
AGY 315 Soil Science and Management	4
HOR 415 Plant Diseases	4
HOR 418 Plant Pest Management	4
BIO 419 Plant Physiology and Biotechnology	4
Choose TWO from the following courses:	7
HOR 321 Plant Propagation, ASI 302 Animal Nutrition, ASI 316 Domestic Animal Anatomy and Physiology, ASI 414 Domestic Animal Reproduction	

Total Required for Agricultural Sciences with Agronomy Emphasis 57**D. Horticulture (HOR) – Required Courses (35 hours) (Teacher Education option)**

ASI 201 Introduction to Animal Science, BIO 112 General Biology, or BIO 301 Invertebrate Zoology	4
AGS 314 Animal and Plant Breeding and Genetics or BIO 305 Introductory Genetics	4
AGY 315 Soil Science and Management	4
HOR 321 Plant Propagation	3
HOR 410 Greenhouse Management	4
HOR 411 Landscape Design and Management	4
HOR 415 Plant Diseases	4
HOR 418 Plant Pest Management	4
BIO 419 Plant Physiology and Biotechnology	4

Total Required for Agricultural Sciences with Horticulture Emphasis 57**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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student

Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education minor). Besides the liberal arts core and degree 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
ASI 201 Introduction to Animal Science	4
ASI 232 Livestock Evaluation and Judging	3
ASI 302 Animal Nutrition	4
ASI 316 Domestic Animal Anatomy and Physiology	4
ASI 414 Domestic Animal Reproduction	4
BIO 419 Plant Physiology and Biotechnology	4
HOR 418 Plant Pest Management	4

Horticulture

AGS 314 Animal and Plant Breeding and Genetics	4
AGY 315 Soil Science and Management	4
HOR 321 Plant Propagation	3
HOR 410 Greenhouse Management	4
HOR 411 Landscape Design and Management	4
HOR 418 Plant Pest Management	4

Art

(Minor Required) B.A. Degree

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 (requirement of the major)

While all studio art courses are, by nature, experiential, the experiential component of the Art Major is specified as the successful completion of ART 497, Senior Studio, and ART 498, Senior Exhibition

I. Common Required Courses (24 hours)

Foundations

ART 101 Two-Dimensional Design	3
ART 102 Three-Dimensional Design	3
ART 104 Drawing Fundamentals	3

Art History & Theory

ART 320 Ancient through Medieval Art in History	3
ART 321 The Renaissance through Impressionist Art in History	3
ART 325 Modern Art in the Twentieth Century	3

Advanced Study

ART 497 Senior Studio	3
ART 498 Senior Exhibition	3

A. **Studio Arts Emphasis:** (15 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 hours from the following):

ART 201 Basic Computer Graphics	3
ART 204 Intermediate Drawing	3
ART 206 Introduction to Ceramics	3
ART 209 Illustration	3
ART 212 The Painting Studio	3
ART 215 Digital Photography	3
ART 217 Black and White Photography	3
ART 232 Web Design X	3

Studio Practice: (Choose 6 hours from the following):

ART 304 Advanced Drawing	3
ART 306 Intermediate Ceramics	3
ART 311 Drawing Heads, Hands, and Feet	3
ART 312 Intermediate Painting	3
ART 317 Intermediate Photography	3

ART 318 Introduction to Sculpture	3
ART 328 Intermediate Sculpture	3

Advanced Study: (Choose 3 hours from the following)

ART 406 Advanced Ceramics	3
ART 412 Advanced Painting	3
ART 423 Advanced Sculpture	3
ART 450 Directed Study in Advanced Studio Problems	3
ART 499 Internship	3

Total Hours Required in Major 39

B. Two-Dimensional Art Emphasis: (15 hours)

Foundations

ART 105 The Color Course	3
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Introduction to Media: (Choose 6 hours from the following):

ART 204 Intermediate Drawing	3
ART 209 Illustration	3
ART 212 The Painting Studio	3
ART 217 Black and White Photography	3

Studio Practice: (Choose 6 hours from the following):

ART 304 Advanced Drawing	3
ART 311 Drawing Heads, Hands, and Feet	3
ART 312 Intermediate Painting	3

Total Hours Required in Major 39

C. Three-Dimensional Art Emphasis: (15 hours)

Introduction to Media

ART 206 Introduction to Ceramics	3
ART 318 Introduction to Sculpture	3

Studio Practice

ART 306 Intermediate Ceramics	3
ART 328 Intermediate Sculpture	3

Advanced Study

ART 406 Advanced Ceramics OR ART 423 Advanced Sculpture	3
Total Hours Required in Major	39

D. Graphic Design Emphasis: (15 hours)**Required Liberal Arts Core** for Graphic Design emphasis only

ECO 202 Microeconomics	3
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Degree Specific Requirements for Graphic Design emphasis only

BUS 304 Advertising	3
COM 101 Introduction to Mass Communication OR	
ENG 310 Media Issues	3

Introduction to Media

ART 201 Basic Computer Graphics	3
ART 215 Digital Photography	3
ART 232 Web Design X	3

Studio Practice

ART 322 Graphic Design: Print Media	3
ART 332 Graphic Design: Typography & Logo Systems	3
Total Hours Required in Major	39

Art Education Endorsement

The student minoring in education must complete the Studio Arts emphasis area and include the following in their program:

- ART 206 Introduction to Ceramics
- ART 324 Art for Children
- ART 450 Directed Study in Advanced Studio Problems (With focus on fiber arts)

Ferrum College offers teaching licensure in art (grades PK-12) through the selection of a minor in Teacher Education with specialization in All-Level Education. This licensure requires passing state mandated testing prior to enrollment in EDU 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students

pursuing licensure must complete all components of the Teacher Education Minor. PSY 211 & PSY 291 are required. ([See Teacher Education minor](#))

Biology

B.S. Degree

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.

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

BIO 111, 201/301/254, 202/306, 305, or 330

Required Liberal Arts Core Courses:

CHM 103 and 104	8
MTH 111, MTH 112, or MTH 211	3-4

Degree Specific Requirements:

PHY 201 or PHY 203	4
CHM 301	4

Required Courses (40-41 hours)

BIO 111 General Biology	4
BIO 201 Vertebrate Zoology OR 301 Invertebrate Zoology OR 254 Human Anatomy	4
BIO 202 Introduction to Plant Science OR 306 Nonvascular Plants and Fungi OR BIO 311 Field Botany	4
BIO 230 Introduction to Cell and Molecular Biology	3
ESC 203 Fundamentals of Ecology	4
ESC 205, 206, 207, 208, 302, or 321 (choose 1)	3-4
BIO 305 Genetics	4
BIO 330 Cell Biology OR BIO 303 Microbiology OR CHM315 Biochemistry	4
NSM 307 Junior Seminar	2
NSM 497, 498 Senior Seminar	4
MTH 208 or ESC215	3-4

Major Electives (16 hours from other BIO or approved Life Science courses, 12 must be at the 300-400 level):

ASI 316 Domestic Animal Anatomy and Physiology	4
ASI 414 Domestic Animal Reproduction	4
CHM 315 Biochemistry	4
ESC 302 Conservation Biology	3
ESC 321 Aquatic Ecology	4
ESC 405 Fisheries and Wildlife Ecology and Management	5
HHP 340 Kinesiology	3
HHP 355 Physiology of Exercise	3
HOR 415 Plant Diseases	4
PSY 333 Biological Psychology	3

Total Hours Required in Major 56 - 57

Biology Secondary Education Endorsement

Ferrum College offers teaching licensure in Biology (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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education minor)

Biology majors seeking a secondary teacher endorsement must take the following courses:

PHY 203, 204 Fundamentals of Physics OR PHY 201, 202 General Physics	8
CHM 301, 302 Organic Chemistry	8
BIO 303 Microbiology	5
BIO 201 Vertebrate Zoology	4
BIO 254 Human Anatomy	4
MTH 208 Introductory Statistics	3

Business Administration

B.S. Degree

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 (1) the operation of a business enterprise; (2) the economic and legal environments in which businesses operate; (3) the importance of the business management profession and its responsibilities and (4) 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 student who majors in Business Administration has 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 (formerly Students in Free Enterprise - SIFE). 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 (Management, Marketing, Financial Management, Decision Support 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.

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

ACC 290,390,490 Accounting Practicum

BUS 190,290,390 Free Enterprise Strategies and Implementation

BUS 291,391,491 Business Practicum

BUS 395 Directed Study (this may include presenting a paper at an undergraduate conference)

BUS 492, 493 Global Competitiveness Practicum

BUS 499 Internship

Liberal Arts Core and Degree Specific Requirements

ACC 201-202 Principles of Accounting I & II	6
ECO 201-202 Principles of Macro- and Microeconomics	6
MTH 111 Pre-Calculus	3
MTH 208 Introductory Statistics	3

Students are strongly urged to explore career opportunities and to establish mentors through an internship. A minimum of 2.00 grade-point average is a prerequisite for the internship.

I. Common Required Courses (24 hours)

BUS 230 Computer Applications	3
BUS 303 Principles of Management	3
BUS 308 Business Communications	3
BUS 311 Marketing	3
BUS 313 Business Finance	3
BUS 315 Business Law	3
BUS 330 Quantitative Methods	3
BUS 498 Senior Seminar: Business Policy	3

II. Emphasis Areas (12 hours)

A. **Decision Support Systems**

The Decision Support Systems emphasis area focuses on the use of contemporary techniques to assist managers in decision-making and problem solving. It is designed for students who are interested in the use of computers to aid in the analysis and evaluation of a variety of business situations. The curriculum prepares majors to use and manage computer-based information systems.

BUS 318 Introduction to Electronic Commerce	3
BUS 325 Advanced Computer Applications	3
BUS 331 Production/Operation Management	3
BUS 430 Management Information Systems	3

B. **Financial Management**

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 314 Advanced Corporate Finance	3
BUS 418 Investments	3
ECO 313 Money and Banking	3
ECO 400 International Finance	3

C. **Management**

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'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.

ACC 301 Managerial Accounting	3
BUS 320 Entrepreneurship	3
BUS 331 Production/Operation Management	3
BUS 403 Human Resources Management	3

D. Marketing

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'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
BUS 305 Sales Management	3
BUS 316 Retail Management	3
BUS 410 Marketing Research	3

E. Sports Management

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.

REC 450 Special Events Planning and Management	3
HHP 402 Organization and Administration of Sports	3
BUS 250 Introduction to Business and Economics of Sports	3
BUS 403 Human Resource Management	3

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 as one of their approved electives.

III. Approved Electives (12 hours)

Students choose 12 credits from Accounting, Business, or Economics. Courses from other disciplines may be selected but must be approved by a Business Program Advisor. At least 9 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 Hours Required in Major 48

General Business Studies

(minor required) B.S. Degree

The General Business Studies Program provides students with a strong foundation in business principles and concepts across the various disciplines, including accounting, economics, management, marketing, and technology. In conjunction with the liberal arts core, emphasis is placed on developing communication skills, such as speaking and writing, as well as quantitative and critical thinking abilities. Team work and experiential learning are important components of the program and they are incorporated into the business curriculum. Students are strongly encouraged to participate in Students in Free Enterprise (S.I.F.E.). This award winning organization provides a rich learning environment for applying theoretical concepts, becoming involved in service to the community, and developing leadership abilities. Graduates from this program of study will be qualified to pursue careers in profit or nonprofit organizations.

The General Business Studies Program is specifically designed to allow students to pursue minors that interface with their personal and professional as well as immediate and long-term objectives.

Required Liberal Arts Core Courses

ECO 202 Principles of Microeconomics	3
MTH 203 Concepts of Calculus	3

Degree Specific Requirements (12 hours)

ACC 201 Principles of Accounting I	3
ACC 202 Principles of Accounting II	3
ECO 201 Principles of Macroeconomics	3
MTH 208 Introductory Statistics	3

Required Courses (39 hours)

BUS 230 Computer Applications	3
BUS 303 Principles of Management	3
BUS 308 Business Communications	3
BUS 311 Marketing	3
BUS 313 Business Finance	3
BUS 315 Business Law	3
BUS 330 Quantitative Methods	3
BUS 498 Senior Seminar: Business Policy	3
CSC 101 Introduction to Computers & Information Systems	3
BUS 101 Keyboarding	3
BUS 302 Records Management	3

BUS 320 Entrepreneurship

3

Total Hours Required in Major (minor required) 39

Ferrum College offers teaching licensure in Career and Technical Education – Business and Information Technology (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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor. ([See Teacher Education minor](#)).

Chemistry

B.A. or B.S. Degree

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 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

I. (without minor) B.S. Degree

Liberal Arts Core Requirements (8 hrs.)

BIO 111 General Biology 4

MTH 211 Calculus 4

Degree Specific Requirements (7-8 hrs.)

BIO 112 General Biology or higher 4

MTH 221 Calculus or MTH 301 Multivariable Calculus 3-4

Required Courses

CHM 103, 104 General Chemistry 8

CHM 301, 302 Organic Chemistry 8

CHM 305 Analytical Chemistry	4
CHM 315 Biochemistry	4
CHM 341, 342 Physical Chemistry	6
CHM 425 Inorganic Chemistry	4
CHM 412 Environmental Chemistry, 331 Forensic Science, 390/490 Selected Topics, CHM 405 Advanced Chemistry Laboratory (E-Term only), OR CHM 195, 196, 295, 296, 395, 396, 495, 496 Independent Research	6
*NSM 307, 497, 498 Seminar	6
PHY 203, 204 Fundamentals of Physics	8
Total Hours Required in Major	54

II. (minor required) **B.A. Degree**

Liberal Arts Core Requirements (7-8 hrs.)

BIO 111 or 112 General Biology	4
MTH 203 Concepts in Calculus or MTH 211 Calculus I	3-4
Degree Specific Requirements (8 hrs.)	8
PHY 201, 202 General Physics or PHY 203, 204 Fundamentals of Physics	8

Required Courses

CHM 103, 104 General Chemistry	8
CHM 301, 302 Organic Chemistry	8
CHM 305 Analytical Chemistry	4
CHM 315 Biochemistry	4
CHM 341 Physical Chemistry	3
CHM 425 Inorganic Chemistry	4
*NSM 307, 497, 498 Seminar	6
CHM 412 Environmental Chemistry, 331 Forensic Science, 405 Advanced Chemistry Laboratory, 342 Physical Chemistry, 390/490 Selected Topics, or 195, 196, 295, 296, 2-4 395, 396, 495, 496 Independent Research	2-4

Total Hours Required in Major 39 - 41 (minor required)

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 301 Multivariable Calculus, MTH 302 Introduction to Linear Algebra, and MTH 303 Differential Equations in addition to the required MTH 211 Calculus I course.

Ferrum College offers teaching licensure in Chemistry (BS Degree) (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 402 – The Profession of

Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education minor).

*Students who complete the requirements for licensure under the Teacher Education minor may substitute EDU 402 and EDU 403 for NSM 307, 497 and 498.

Computer Information Systems

B.S. Degree

Computer Information Systems is an interdisciplinary major that prepares students in the specialized areas of 1) Web Design and Mobile Technology Apps, 2) Technical Support and Computer Networks, 3) Programming for Applications. Starting from a solid foundation in business and computer concepts, students learn to appreciate and understand the relationships between these two disciplines. 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 computer technology areas. This major also prepares students for graduate studies in business, information systems, or related fields.

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

CSC 242 Networking

CSC 230 Web Design

CSC 499 Internship

Required Liberal Arts Core Courses

MTH 203 Concepts in Calculus (or higher) 3

ECO 202 Principles of Microeconomics 3

Degree Specific Requirements

ACC 201, 202 Principles of Accounting 6

MTH 208 Introductory Statistics 3

I. Common Required Courses (42 hours)

CSC 101 Introduction to Computers and Information Systems 3

CSC 229 Programming Concepts and Algorithm Design 3

CSC 312 Computer Organization 3

CSC 340 Visual Basic for Applications 3

CSC 401 Database Theory	3
CSC 455 Systems Analysis and Design	3
CSC 498 Senior Research Seminar	3
BUS 230 Computer Applications OR CSC 100 Computer Literacy	3
BUS 303 Principles of Management	3
BUS 308 Business Communications	3
BUS 325 Advanced Computer Applications	3
BUS 330 Quantitative Methods	3
BUS 331 Production/Operations Management	3
BUS 430 Management Information Systems	3

II. Emphasis Areas (15 hours each)

A. **Web Design and Mobile Technology Apps**

ART 201 Graphic Art	3
BUS 318 Introduction to Electronic Commerce	3
CSC 145 Social Networking Best Practices	3
CSC 230 Web Design	3
CSC 235 Programming for Portable Devices	3

B. **Technical Support and Computer Networks**

CSC 102 Hardware Maintenance and Troubleshooting	3
CSC 242 Networking I - Intro to Networking	3
CSC 342 Networking II - Administration and TCP/IP	3
CSC 442 Networking III - Hardware/Router Configuration	3
CSC 350 Operating Systems	3

C. **Programming Languages for Applications**

CSC 235 Programming for Portable Devices	3
CSC 310 Java	3
CSC 320 Programming using C++	3
CSC 321 Data Structures	3
MTH 311 Discrete Math	3

Total Hours Required in Major (Depending on Emphasis Area) 57

Ferrum College offers teaching licensure in Career and Technical Education - Business and Informational Technology (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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU

403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor.

Criminal Justice

B.S. or B.A. Degree

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.

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

CJU 499 Internship

SOC 391 Directed Study in Sociology

Required Liberal Arts Core Courses

MTH 107 or MTH 111 3

SOC 101 General Sociology 3

Degree Specific Requirements

PSC 202 State and Local Government 3

MTH 208 Introduction to Statistics 3

B.S. Degree requires two courses (six hours) from the following:

Approved Computer Course 3

ACC 201 Principles of Accounting I 3

BUS 308 Business Communications 3

ENG 461 Professional Writing 3

B.A. Degree requires six hours in Spanish (or other approved language) at the 200 level or higher

Total Liberal Arts Core and Degree Specific Requirements 18(for both the B.S. and B.A. Degree)

Common Criminal Justice Required Courses (regardless of the degree):

CJU 201 Introduction to Criminal Justice 3

CJU 204 American Corrections 3

CJU 220 Criminal Law 3

CJU 314 Courts and Judicial Process 3

CJU 361 Criminal Justice Administration and Leadership 3

PSC 101 American National Government & Policies 3

SOC 203 Cultural Diversity 3

SOC 320 Deviance and Social Control	3
SOC 470 Social Science Research or SSC 251 Introduction to Social Science Research	3
CJU 498 Senior Seminar	3

Applied Criminology Emphasis:

The emphasis in Applied Criminology encompasses the myriad of options available to the graduate that would include positions as juvenile or adult probation officers, correctional counselors in prisons and jails, as well as parole officers, counselors in half way houses, and drug treatment centers and other therapeutic treatment centers. This emphasis is interdisciplinary with a unique combination of courses in social work, sociology, psychology, and criminal justice. This degree would also provide a foundation for students who were interested in pursuing graduate degrees in criminal justice, criminology, sociology, or social work.

CJU 404 Juvenile Justice	3
CJU 406 Probation, Parole, and Community Corrections	3
CJU 499 Internship or SOC 391 Directed Study in Sociology	3
PSY 320 Abnormal Psychology	3
PSY 348 Introduction to the Techniques of Counseling	3
SOC 202 Social Problems	3
SWK 201 Introduction to Social Work	3
SWK 350 Substance Abuse Intervention Techniques	3

Emphasis Total 24

Total Hours Required in Major 54

Criminal Justice Administration and Leadership Emphasis:

Most graduates with undergraduate degrees in criminal justice start at the entry level regardless of whether they are employed in corrections, community corrections, or local, state, or federal law enforcement. Advancement through most criminal justice agencies will be through administration and leadership positions. Very few criminal justice graduates are prepared academically for advancement in the field because most programs tend to prepare them to be practitioners and not administrators. The emphasis in Criminal Justice Administration and Leadership is designed to address this deficit. This program would also lay a solid foundation for graduate work in public administration or criminal justice. Since most criminal justice agencies are public organizations, it is felt that ACC 306 Government and Non Profit Accounting be required. This course has prerequisites of ACC 201 and 202. The strong accounting component will assist graduates who enter the law enforcement field because more and more criminal investigations are concerned with white collar crime which involves the diversion of legitimate assets into illegitimate ventures or vice versa. This emphasis would be recommended to students who would typically enter law enforcement positions although it would be applicable to corrections as well.

ACC 202 Principles of Accounting II	3
ACC 306 Government and Non Profit Accounting	3
BUS 303 Principles of Management	3
CJU 408 Rural Issues in Criminal Justice	3

CJU 499 Internship or SOC 391 Directed Study in Sociology	3	
PSC 324 U.S. Constitutional Law	3	
PSC 402 Policy Analysis	3	
SOC 330 Organization & Behavior	3	
Emphasis Total	24	
Total Hours Required in Major	54	

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 workgroup. Students may pursue further education or employment in the field.

Required Courses

CJU 330 Criminal Investigation	3
CJU 335 Forensic Investigation	3

Elective Courses (19 hours) Pick any six courses from the following:

CHM 331 Forensic Science	4
CJU 250 Friction Ridge Analysis	3
CJU 340 Interview & Crisis Intervention	3
CJU 375 Crime Scene Photography	3
CJU 430 Specialized Investigation	3
CJU 460 Criminal Profiling	3
GEO 221 Geographical Information Systems	4

Emphasis Total 25 - 26

Total Hours Required in Major 55 - 56

Democracy, Justice, and Civic Engagement

B.A. Degree

The Democracy, Justice, and Civic Engagement Program (DJCE) will educate students to examine the world around them critically, through the use of normative and empirical research, as well as hands on experience. Students will then apply the knowledge and skills they develop to become engaged and informed citizens. DJCE students will be expected to master these core components of the program: evaluate the advantages, disadvantages and trade-offs of democratic and non-democratic citizenship; to examine these questions in the light of both Western and non-Western thought by studying a wide array of differing points of view; and demonstrate reflective reasoning and ethical

action in regards to the need for social justice. Additionally, students will also be expected to master skills related to performing well within the discipline: to be able to comprehend, assess, and problematize their own beliefs, those of their instructors, as well as wider societal conceptions; critique social research, both their own research and others'; and be able to construct and defend arguments logically. After completing the program, DJCE students should be prepared for careers and life-long growth in political, legal, or social activist careers, working locally, regionally or globally.

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

- PSC 399 Citizenship and Service Learning
- SSC 299 Digital Storytelling

Required Liberal Arts Core Courses (10 hours)

SOC 101 General Sociology	3
PHI 101 Logic	3
ESC 102 Introduction to Environmental Science	4

Degree Specific Requirements (9 hours)

PSC 101 American National Government and Politics	3
PSC 203 International Relations	3
ECO 201 Principles of Macroeconomics	3

Required DJCE Courses (15 hours)

DJC 201 Understanding Democracy, Justice, and Civic Engagement	3
DJC 202 Practicing Democracy, Justice, and Civic Engagement	3
DJC 350 Synthesizing Democracy, Justice, and Civic Engagement	3
DJC 496 Individual or Collaborative Study	3
DJC 498 Democracy, Justice, and Civic Engagement Senior Seminar	3

Required non-DJCE Courses (21 hours)

ENG 338 Rhetoric	3
PHI 211 Ethics	3
PSC 300 Research Methods or SOC 470 Social Sciences Research	3
PSC 399 Citizenship and Service Learning or SSC 299 Digital Storytelling	3
PSY 201 General Psychology	3
SOC 202 Social Problems	3
SSC 251 Introduction to Social Science Research	3

Legal, Policy, and Advocacy Electives (select 6 hours from the following):

ACC 290 Accounting Practicum	1
ACC 390 Accounting Practicum	1
ACC 490 Accounting Practicum	1
CJU 320 Deviance and Social Control	3
ECO 315 Environmental and Natural Resource Economics	3
ECO 430 Development Economics	3
PHI 316 Philosophy of Law	3
PSC 324 US Constitutional Law	3
PSC 435 Political Economy of Development	3
PSC 440 International Law and Organizations	3
SWK 320 Social Welfare Policy	3

Groups, Cultures, and Nationalities Electives (select 15 hours from the following):

HIS 380 Latin American History	3
HIS 382 United States-Latin American Relations	3
PSC 205 Comparative Government	3
PSC 304 Modern Ideologies	3
PSC 306 Politics and Human Rights	3
PSY 230 Social Psychology	3
REL 151 World Religions	3
REL 245 Religion and Public Life	3
SOC 203 Sociology of US Cultural Diversity	3
SOC 310 Social Class and Inequality	3
SOC 340 Collective Behavior and Social Movements	3

Total Hours Required in Major 57

English

(minor required) B.A. Degree

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. An English major 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.

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 Core Requirement:

ENG 200 Introduction to Literary Studies 3

Degree Specific Requirements:

Foreign Language through intermediate level

Required Common Courses (18 hours)

ENG 205 or 345 and 206 or 346 American Literature 6

Any three courses from ENG 201, 202, 203, 204, 361, or 362 World and British Literature 9

ENG 398 Junior Seminar 1

ENG 498 Senior Seminar 2

Total Hours 18

I. Literature Emphasis

Required Courses:

ENG 401 Literary Criticism 3

18 hours chosen from any other 300-400 level English courses, of which 6 hours should be pre-19th century literature, 6 hours 19th century and later literature, and 6 hours from any other 300-400 level English courses or foreign language literature. 18

Total Hours Required in Major 39
(minor required)

II. Creative and Professional Writing Emphasis

Required Courses (6 hours)

ENG 218 Introduction to Creative Writing	3
ENG 461 Professional Writing	3

9 hours from the following:

COM 433 Media Scriptwriting	3
ENG 131—432 Journalism Practicum	1
ENG 141—442 Creative Arts Practicum	1
ENG 310 Media Issues	3
ENG 311 News Writing and Editing	3
ENG 312 Feature Writing and Production	3
ENG 319 Advanced Prose Writing	3
ENG 320 Advanced Poetry Writing	3
ENG 336 Linguistics	3
ENG 338 Rhetoric	3
ENG 433 Small Group Communication	3

6 hours from:

Any 300-400 level ENG course or other approved discipline	6
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Total Hours Required in Major 39
(minor required)

III. Film and Popular Culture Emphasis

Required Courses

ENG 221 Introduction to Film	3
ENG 222: Introduction to Popular Culture	3

9 hours from the following:

COM 101 Introduction to Mass Communication	3
COM 271 Online Media	3
COM 369 Mass Media and Behavior	3
ENG 213 (E-Term) Literature and Film of the American Frontier	3
ENG 428 Contemporary Literature and Film	3
ENG 301 Literature for Children	3
ENG 350 Appalachian Literature	3
HON 211 Art, Literature, and Film of the Expressionist Period	3
HON 213 Media and Violence	3
HON 216 The Sixties	3
HUM 302 African American Studies	3

PSC 491 Special Topics: International Relations Theory and Film	3
PSC 277 African Politics, Film, and Literature	3
REL 216 Religion in Film	3
SCI 145 Bad Science in Movies	2
SOC 204 Sociology of Sport	3
SOC 206 Introduction to American Folk Studies	3
6 hours from:	
Any 300-400 level ENG course or other approved discipline	6
Total Hours Required in Major (minor required)	39

IV. 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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor. ([See Teacher Education minor](#)).

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 or ENG 345 American Literature, 1815-1865	3
ENG 206 American Literature II or ENG 346 American Literature, 1865-1940	3
ENG 336 Linguistics	3
ENG 338 Rhetoric	3
ENG 365 Shakespeare	3
ENG 401 Literary Criticism	3

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

Highly recommended:

ENG 203 British Literature I or ENG 361 British Literature, 1660-1798	3
ENG 204 British Literature II or ENG 362 British Literature, 1798-1890	3

Total Hours Required in Major 39
(minor required)

Journalism Add-on Endorsement (Teacher Education Licensure)

COM 101 Introduction to Mass Communication	3
ENG 311 News Writing and Editing	3
ART 215 Digital Photography or 217 Black and White Photography	3
ENG 312 Feature Writing and Production or ART 201 Basic Computer Graphics or	3

COM 211 Radio Broadcasting Methods	
ENG 131 and 132 Journalism Practicum I and II (1 credit each)	2
ENG 231 Journalism Practicum III or COM 141 Radio Practicum	1
Total Hours Required in Endorsement	15

Environmental Science

B.S. Degree

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 core 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's Environmental Science Program offers students flexibility in developing their own interests. Students are encouraged to pursue a minor, but it is not required.

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

- ESC 102 Introduction to Environmental Science
- NSM 499 Internship

Liberal Arts Core Courses and Degree Specific Requirements

BIO 111 General Biology	4
CHM 101 or 103 General Chemistry	4
MTH 111 Pre-Calculus I	3

Required Courses (49 hours)

BIO 201 Vertebrate Zoology or BIO 301 Invertebrate Zoology	4
BIO 202 Plant Science OR BIO 306 Nonvascular Plants and Fungi	4
CHM 105 or 301 Organic Chemistry	4
ESC 102 Introduction to Environmental Science	4
ESC 103 Applied Environmental Monitoring	4
ESC 202 Quantitative Environmental Methods and Statistics	4
ESC 203 Fundamentals of Ecology	4
ECO 315 Environmental and Natural Resource Economic OR ESC 310 Natural Resource Policy and Economics	3
GEO 220 Introduction to Physical Geography	4
GEO 221 Introduction to Geographical Information Systems	4

NSM 307, 497, 498 Seminar	6
NSM 399 Professional Preparation	1
NSM 499 Internship	3

Required Electives (Choose 8 hours from the following):

AGY 315 Soil Science	4
BIO 301 Invertebrate Zoology (if not used to meet Required Courses above)	4
BIO 306 Nonvascular Plants and Fungi (if not used to meet Required Courses above)	4
BIO 311 Field Botany	4
BIO 315 Animal Behavior	3
BIO 413 Animal Diseases	3
CHM 305 Analytical Chemistry	4
CHM 412 Environmental Chemistry	3
ECO 315 Environmental and Natural Resource Economics (if not used to meet Required Courses above)	3
ESC 302 Conservation Biology	3
ESC 310 Environmental Planning and Assessment (if not used to meet Required Courses above)	3
ESC 313 Natural Resource Management	3
ESC 321 Aquatic Ecology	4
ESC 405 Fish and Wildlife Ecology and Management	5
ESC 413 Forest Science and Management	5
ESC 421 Pollution Science	4
ESC 424 Environmental Toxicology	3
HOR 415 Plant Diseases	4
SOC 303 Population Dynamics	3
SOC/EPD 392 Eco-Social Justice: Issues and Applications	3

Travel Courses:

ESC 205 Tropical and Marine Ecology	4
ESC 206 Community Ecology of the Southeast	4
ESC 207 South African Ecology and Culture	4
ESC 208 Ireland's Natural History: Interaction of Nature and Culture	4

Variable Credit Courses:

ESC 180-481 Environmental Science Practicum
ESC 390 Special Topics in Environmental Science
ESC 495, 496 Independent Research

Total Hours Required in Major 57

Environmental Studies

B.A. Degree

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.

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

ESC 102 Introduction to Environmental Science

NSM 499 Internship

Required Liberal Arts Core Courses (10 hours)

ENG 211 Literature and the Environment 3

ESC 102 Introduction to Environmental Science 4

SOC 101 General Sociology 3

Degree Specific Requirements (8 hours)

GEO 220 Physical Geography 4

GEO 221 Geographic Information Systems 4

Required Courses (39-40 hours)

EPD 201 Introduction to Environmental Planning and Development I 3

EPD 202 Introduction to Environmental Planning and Development II 4

EPD 410 Advanced Environmental Planning and Development 3

ESC 103 Applied Environmental Monitoring 4

ESC 202 Quantitative Environmental Methods and Statistics 3 or 4

OR MTH 208 Introductory Statistics

ESC 203 Fundamentals of Ecology 4

ESC 310 Natural Resource Policy & Economics 3

ESC 313 Natural Resource Management 3

PSC 402 Policy Analysis 3

SOC/EPD 392 Environmental Justice 3

NSM 307, 497, 498 Seminar 6

NSM 499 Internship 3

Elective Courses (12 hours)

ESC 180-481 Environmental Science Practicum	1
ESC 205, 206, 207 or 208 Travel Courses	4
ESC 302 Conservation Biology	3
ESC 315 Soil Science	4
ESC 321 Aquatic Ecology	4
ESC 390 Special Topics	3
ESC 405 Fisheries and Wildlife Ecology and Management	5
ESC 413 Forest Science and Management	5
ESC 421 Pollution Science	4
ESC 424 Environmental Toxicology	3
ESC 495, 496 Independent Research	1-3
ECO 330 International Trade	3
ECO 430 Development Economics	3
PSC 302 Political Geography	3
PSC 435 Political Economy of Development	3
PSC 440 International Law and Organization	3
Total Hours Required in Major	51 - 52

Health and Human Performance

B.S. Degree

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.

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

HHP 499 Internship

Required Liberal Arts Core Courses (11 hours)

BIO 111 General Biology	4
PSY 201 General Psychology	3
BIO 254 Anatomy and Physiology	4

Required Common Courses (25 hours)

BIO 320 Human Nutrition or HHP 348 Sports Nutrition	3
PSY 345 Sports Psychology or HHP 345 Sports Psychology	3
HHP 200 Health and Wellness	3

HHP 252 Foundations of Health and Human Performance Professions	3
HHP 300 Responding to Emergencies	3
HHP 338 Motor Learning	3
HHP 340 Kinesiology	3
HHP 355 Physiology of Exercise	3
Choose 1 HHP 100-199	1

I. 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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis.

Degree Specific Requirements (8 hours)

BIO 255 Anatomy and Physiology	4
PSY 211 Human Growth and Development- Child and Adolescent	3
PSY 291 Practicum and Child Development Lab	1

Required Courses (14 hrs.)

HHP 145 Rhythmics and Recreational Games	1
DAN 105 or 106 or 110 or 111	1
HHP 320 Health and Physical Education for Children (Pre K-6)	3
HHP 321 The Physical Education Experience for Adolescents	3
HHP 401 Methods for Teaching Health Education	3
HHP 403 Physical Education Assessment Procedures	3

Total Hours Required in Major 39

II. 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.

Degree Specific Requirements (7 hours)

BIO 255 Anatomy and Physiology	4
HHP 206 Introduction into Athletic Injuries	3

Required Courses (21hrs.)

BUS 230 Computer Applications	3
REC 341 Program Planning and Leadership	4
HHP 315 Exercise Assessment and Prescription	3
HHP 316 Application of Exercise Assessment and Prescription	1
HHP 332 Strength and Conditioning	3
HHP 400 Advanced Exercise Assessment	3
HHP 499 Internship	4

(Suggested electives include HHP 305, REC 350, SCI 137)

Total Hours Required in Major 46

III. 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.

Degree Specific Requirements (7 hours)

BIO 255 Anatomy and Physiology	4
HHP 206 Introduction into Athletic Injuries	3

Required Courses (32 hrs.)

CHM 101 Fundamentals of Inorganic Chemistry or CHM 103 General Chemistry	4
CHM 105 Introduction to Organic and Biochemistry or CHM 301 Organic Chemistry	4
HHP 305 Rehabilitative Techniques for Athletic Injuries	3
HHP 315 Exercise Assessment and Prescription	3
HHP 356 EKG Interpretation	3
MTH 208 Introductory Statistics	3
PHY 201 General Physics	4
PHY 202 General Physics	4
HHP 499 Internship	4

(Suggested electives include: BIO 303, CHM 315, HHP 400)

Total Hours Required in Major 57

IV. 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 professional's 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.

Degree Specific Requirements (4 hours)

BIO 255 Anatomy and Physiology	4
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Required Courses (26 hrs.)

SCI 127 Human Sexual Reproduction, Pregnancy, Dev. and Birth	2
SCI 128 The Healthy Human Body	2
SCI 129 The Diseased Human Body	2
SWK 350 Substance Abuse: Interventive Techniques	3
HHP 358 Health Promotion Programming Development	3
HHP 401 Methods for Teaching Health Education	3
HHP 499 Internship	4
PSY 328 Health Psychology	3
REC 341 Program Planning and Leadership	4

Total Hours Required in Major 51

Health Sciences

B.S. Degree

The Health Sciences major features preparation for Health Science careers such as Nursing/Nurse Practitioner, Physical Therapy, Occupational Therapy, Physician Assistant, Clinical Laboratory Science, Osteopathic Medicine, Pharmacy, Veterinary Technology, Health Science Research, Medical Technology, Nuclear Medicine, Podiatric Medicine, Chiropractic Medicine, Medical Imaging, and similar professions in the health sciences. This major includes the basic science courses and liberal arts foundation at Ferrum College followed by specialization at another institution in the specific professional career area. Depending on the specific professional goals, many students are able to complete the Ferrum College component of this major in three years and Ferrum College will confer the B.S. in Health Sciences after students earn the required additional professional elective credit hours in their professional areas. Articulation agreements for follow-on professional programs in this major are generally limited to students with a B or better GPA in the sciences and overall.

Ferrum College has Articulation Agreements with the following colleges and universities:

- East Tennessee State University - Dual Baccalaureate BS: Ferrum, BSN(Nursing): ETSU in 3+2.5 undergraduate programs
- Shenandoah University - Doctor of Pharmacy, MS Occupational Therapy, Doctor of Physical Therapy, & Dual Baccalaureate BS: Ferrum, BSN(Nursing): SU in 3+2.5 undergraduate programs
- Sherman College of Chiropractic - Doctor of Chiropractic
- Jefferson College of Health Sciences - ABSN(Nursing) 4+1.5 program
- Murphy Deming College of Health Sciences at Mary Baldwin College – Physical Therapy, Occupational Therapy or Physician Assistant Studies.

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

BIO 254/255 Human Anatomy & Physiology I & II

NSM 499 Internship

Liberal Arts Core Courses (10-11 hours)

MTH 111, 203, **or** 211 3-4

PSY 201 General Psychology 3

BIO 111 General Biology 4

Degree-Specific Requirements (6 hours)

PHI 211 Ethics **or** PHI 312 Professional Ethics 3

MTH 208 Introductory Statistics 3

Required Health Sciences Courses (31 hours)

BIO 254, 255 Human Anatomy and Physiology 8

BIO 303 Microbiology 4

CHM 101 and 105, **or** CHM 103 and 104 8

HSC 299 Professional Preparation 1

NSM 399 Professional Preparation 1

NSM 307 Junior Seminar 2

NSM 497, 498 Senior Seminar* 4

NSM 499 Internship 3

This requirement would be waived provided a student successfully completes the first year of an extramural professional program after Ferrum College. Note that the Ferrum College Health Sciences degree will be withheld until aforementioned successful completion.

Required Professional Elective Courses (23 hours) Elective course of study tailored to the student's

professional health science goals from courses such as the following and/or in an extramural professional program after Ferrum College. The student should consult the track sheet appropriate to their intended professional field of study. **This course of study must be approved by the student's adviser and the Director of Professional Health Sciences** in the student's junior year. (At least 12 credits must be taken at the 300-400 level.)

ASI 201 Introduction to Animal Science	4
ASI 302 Animal Nutrition	4
BIO 201 Vertebrate Zoology	4
BIO 301 Invertebrate Zoology	4
BIO 305 Genetics	4
BIO 320 Human Nutrition	3
BIO 330 Cell Biology	4
BIO 405 Biotechnology	4
BIO 413 Animal Diseases	3
BUS 303 Management	3
CHM 301, 302 Organic Chemistry	8
CHM 305 Analytical Chemistry	4
CHM 315 Biochemistry	4
CHM 331 Forensic Science	4
CHM 425 Inorganic Chemistry	4
ECO 201 Macroeconomics or 202 Microeconomics	3
HHP 206 Introduction to Athletic Injuries	3
HHP 300 Responding to Emergencies	3
HHP 338 Motor Learning	3
HHP 340 Kinesiology	3
HHP 355 Physiology of Exercise	3
HHP 356 EKG Interpretation	3
PHY 201, 202, or PHY 203, 204	8
PSY 211, 212 Human Development I and II	6
PSY 320 Abnormal Psychology	3
PSY 328 Health Psychology	3
PSY 340 Personality	3
PSY 345 Sport Psychology	3
SOC 101 General Sociology	3
SOC 202 Social Problems	3
SOC 203 Cultural Diversity	3
Practicum	1
Total Hours Required in Major	54

History

(minor required) B.A. or B.S. Degree

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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor. (See Teacher Education minor - Social Studies)

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

- HIS 498 Senior Seminar
- HIS 499 Senior Thesis

Degree Specific Requirements

COM 201 Public Speaking	3
Foreign Language (200-level or above) for the B.A. degree	6
PSC 101, 202, 203, or 205 for the B.S. degree	6

Required Courses (15 hours)

HIS 201 American History to 1865	3
HIS 202 American History since 1865	3
HIS 101 Western Civilization I	3
HIS 205 Europe 1500-1789	3
HIS 206 Europe 1789-1945	3
HIS 398 Historiography	3
HIS 498 Senior Seminar (Experiential Component)	2
HIS 499 Senior Thesis (Experiential Component)	1

Non-Western History (Choose 6 hours from the following):

HIS 371 China	3
HIS 373 India	3
HIS 374 Southeast Asia	3
HIS 375 Subsaharan Africa	3

HIS 378 North Africa	3
HIS 380 Latin America	3
HIS 382 U.S.-Latin American Relations	3

Major Electives (12 hours)

Any 300/400-level history courses not used to satisfy the above requirements. HIS 220 may also be used.

Total Hours Required in Major 39
(minor required)

International Studies

B.A. Degree

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. Majors will become more conversant with history, language, culture, economy, and politics of foreign nations and the international community in which they participate. 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 Experiential Component (requirement of the major) can be met by successfully completing the following:

PSC 203 International Politics

One course that involves international travel including but not limited to: ESC 205 (Belize), ESC 205 (Virgin Islands), ESC 207 (South Africa), ESC 208 (Ireland), REC 475 (Costa Rica), SAB 250 or 350 or other internationally focused E-Terms.

Required Liberal Arts Core Courses:

PSC 205 Comparative Government	3
ECO 201 Principles of Macroeconomics	3
LAN 201, 202	6

Required Courses (18 hours)

PSC 203 International Politics	3
IST 350 International Relations Theory	3
IST 496 Individual Study	3

PSC 203 International Politics	3
IST 498 International Studies Senior Seminar	3
One research course from the following list: (HIS 398, SSC 251, SOC 470, or ENG 401)	3
One course that involves international travel, such as (ESC 205 (Belize), REC 475 (Costa Rica), ESC 205 (Virgin Islands), ESC 207 (South Africa), ESC 208 (Ireland), SAB 250 or 350), or other internationally focused E-Terms.	3
Language Requirement:	
LAN 301, 302 Advanced Foreign Language	6
Area Studies (at least 9 hours):	
HIS 350 The European Phoenix	3
HIS 371 China	3
HIS 373 India	3
HIS 374 Southeast Asia	3
HIS 375 Sub-Saharan Africa	3
HIS 378 North Africa	3
HIS 380 Latin America	3
HIS 355 Russia Since 1917	3
HIS 357 Russian History	3
International Relations (at least 9 hours):	
PSC 302 Political Geography	3
PSC 306 Politics and Human Rights	3
PSC 420 War and Peacekeeping – U.S. National Security Policy	3
PSC 440 International Law and Organizations	3
HIS 312 U.S. Foreign Policy Since 1945	3
HIS 382 U.S.-Latin American Relations	3
Economics (at least 3 hours):	
BUS 420 International Business	3
ECO 330 International Trade	3
ECO 430 Development Economics	3
PSC 435 Political Economy of Development	3
World Cultures and Practices (at least 6 hours):	
ENG 201 World Literature I	3
ENG 202 World Literature II	3
ENG 210 World Folktales and Literature	3
HUM 200 or 300 Holocaust: Past, Present, and Future	3

HUM 333 Intercultural Conflict Mediation	3
REL 151 World Religions	3
RUS 304 Russian Culture	3
RUS 401 Russian Literature of the 19 th Century	3
RUS 402 Russian Literature of the 20 th Century	3
SPA 320 Introduction to Literature in Spanish	3
SPA 325 Spanish Culture	3
SPA 326 Latin American Culture	3
SPA 403 Latin American and Spanish Short Story	3
SPA 404 Selected Topics in Hispanic Literatures	3
THA 301 World Theatre I: Through the Eighteenth Century	3
THA 302 World Theatre II: From 1800 to the Present	3

Major Electives: (6 hours)

Additional courses from the Area Studies or International Relations categories or from the following: HIS 496, HIS 497, IST 325, PSC 491, PSC 499 (as approved by the program coordinator).

Total Hours Required in Major 57

Liberal Arts

B.S. or B.A. Degree

The interrelatedness of all knowledge lies at the heart of a liberal arts education. Much of the excitement of learning stems from the discovery of truth in interactive disciplines. The Liberal Arts major affords students the opportunity to put together a broad program of study that stimulates and satisfies intellectual growth yet affords adequate concentration in two academic areas to acquire in-depth knowledge. The Liberal Arts major consists of at least 36 credit hours earned in two of the following areas of emphasis, with no fewer than 18 hours in each emphasis. (You may select only one minor from each emphasis group below.):

- - Agriculture or Biology or Chemistry or Environmental Science
- - Psychology or History or Political Science
- - English or Foreign Language (Russian or Spanish)
- - Theatre Arts and Visual Arts
- - Mathematics
- - Philosophy or Religious Studies

Students not earning a minor in Teacher Education or Educational Studies:

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 major that parallels one of the student's Liberal Arts Concentration areas.

At least 50 percent of the courses in each concentration of the Liberal Arts major must be upper-level (i.e., 300 and above). A 2.000 grade point average is required in each emphasis area for graduation.

Liberal Arts Major for Elementary Education Minor (39 hours)(BS major only)

For students with a Teacher Education minor:

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

- EDU 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis.

The Liberal Arts major with the Teacher Education minor (Elementary pre-K-6 endorsement) shall be as follows. To be in compliance with Teacher Education standards, the student must maintain an overall 2.500 G.P.A., a 2.800 G.P.A. for courses listed in the Liberal Arts major, and a 3.000 G.P.A. in the Teacher Education minor.

Required Liberal Arts Core Courses (must be a “C” or higher)

BIO 105 Introduction to Biology	4
ENG 101 & 102	6
MTH 105**	3
PSY 201 General Psychology	3
Degree Specific Requirements (must be a “C” or higher)	
PSY 211 Human Growth and Development - Child and Adolescent	3
PSY 291 Practicum and Child Development Lab	1

**Students who choose a higher mathematics course may petition the Teacher Education Committee to consider those courses as meeting the mathematics Liberal Arts Core requirement for this major. This excludes required mathematics courses listed below.

Must complete each of the following with a 2.800 G.P.A.:

English (9 hours)

ENG 301 Children’s Literature	3
ENG 336 Linguistics	3
ENG 338 Rhetoric	3

Social Studies (12 hours)

HIS 201 and HIS 202 American History I & II	6
SST 250 Elementary Social Studies	3
HIS 316 Virginia History	3

Science (10 hours)

SCI 250 Physical Science	4
SCI 126 Natural Resources	2
GEO 220 Introduction to Physical Geography	4

Mathematics (9 hours)

MTH 107 Introduction to Finite Mathematics	3
MTH 208 Introductory Statistics	3
EDU 320 Differentiated Instruction in Mathematics for the Elementary/Middle School	3

9 hours from the following: (At least one from each group.)

Behavioral Science

PSY 320 Abnormal Behavior	3
PSY 331 Cognitive Development	3
SOC 303 Cultural Diversity Applications in Schools and Society	3

Creative Arts

ART 324 Art for Children	3
MUS 426 Music for Children	3
THA 336 Creative Drama in School, Church, or Community	3

Total Hours Required in Major 40

Elementary Education (Pre K – 6) Minor *Teacher Education students must complete the minor course work with a 3.000 G.P.A.*

EDU 202 Issues in Education	3
SPD 220 Survey of Exceptional and Special Education	3
EDU 302 Foundations of Education	3
EDU 310 Developmental and Diagnostic Reading	3
EDU 311 Language Arts	3
EDU 352 Classroom Management and Differentiated Instructional Strategies	3
EDU 353 Elementary/Middle School Curriculum, Instruction and Assessment Strategies	3
EDU 402 The Profession of Teaching: Student Teaching Field Experience	10
EDU 403 The Profession of Teaching: Student Teaching Synthesis	2

Liberal Studies

B.S. or B.A. Degree

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 Vice President for Academic Affairs Office. It is returned, by the student, to the Vice President for Academic Affairs for final approval before being delivered to the Registrar's Office. A 2.000 G.P.A. 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 course work.

Mathematical Science

(minor required) *B.S. Degree*

The goal of the mathematical sciences major is to provide the student with a broad background in mathematics, computer science, and statistics. This major offers excellent preparation for our highly technical and quantitative society. Secondary education endorsement in mathematics is an option with this major.

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

- EDU 402 & 403 Student Teaching Field Experience, Student Teaching Synthesis
- PHY 203 & 204 Fundamentals **OR** alternatives approved by program coordinator

Required Liberal Arts Core Courses

- MTH 211 Calculus
- PHY 203 & 204 Fundamentals of Physics

Degree Specific Requirements

- CSC 320 Programming Using C++
- Choose one of the following:
 - CSC 312 Computer Organization

- CHM 341 Physical Chemistry
- MTH 390, 490 Selected Topics in Mathematics (in addition to the required MTH 390/490)
- PHY 390, 490 Special Topics

Required Courses (34-45 hours)

MTH 208 Introductory Statistics	3
MTH 221 Calculus II	4
MTH 301 Multivariable Calculus	3
MTH 302 Linear Algebra	3
MTH 303 Differential Equations	3
MTH 306 Statistics	3
MTH 311 Discrete Mathematics	3
MTH 390/490 Selected Topics or MTH 312 Discrete	1-3
MTH 410 Introduction to Numerical Methods	3
MTH 420 Foundations of Geometry	3
MTH 497 Foundations of Mathematics	2
MTH 498 Senior Seminar OR EDU 402 – The Profession of Teaching: Student Teaching Field Experience <i>and</i> EDU 403 - The Profession of Teaching: Student Teaching Synthesis.	3-12

Total Hours Required in Major 34 – 45
(minor required)

Secondary Education Endorsement

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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor.

In addition, the Teacher Education Program supports an Add-On Endorsement for teaching mathematics up to Algebra I.

Algebra I add-on endorsement (Teacher Education 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.

Courses required for an add-on endorsement:

MTH 111 and 112*	6
MTH 208	3
MTH 211	4
MTH 302	3

MTH 311	3
MTH 420	3
CSC 320 or 225	3/4

Total Hours Required for Endorsement 25 - 26

*Students who come to Ferrum with a strong background in Algebra and Trigonometry may choose to take Math 211 and Math 221 without taking Math 111 and Math 112. Students who complete this add on endorsement must have at least 24 credit hours of related course work. 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. Degree*

The Bachelor of Arts in Media and Communication is for students who are interested in pursuing careers in broadcasting, multi-media journalism, public relations, corporate communications, audio recording and reproduction, filmmaking, 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.

The Experiential Component (required of the major) can be met by successfully completing 3 hours from among the following:

COM 141 & 241	Radio Performance Practicum	1 credit hour (each)
COM 236 – 437	Video Production Practicum	1 credit hour (each)
COM 499	Internship	3 credit hours
ENG 131 – 432	Journalism Practicum	1 credit hour (each)
ENG 141 - 442	Creative Arts Practicum	1 credit hour (each)

Required Liberal Arts Core Courses

PSY 201

Degree Specific Requirements

Six hours of a foreign language (200 level or above)

Required Courses (24 hours)

COM 101 Intro to Mass Communication	3
COM 223 Basic Audio Recording	3

COM 235 Fundamentals of TV & Video Production	3
COM 304 Communication Research	3
COM 369 Mass Media & Behavior	3
COM 433 Media Scriptwriting	3
COM 483 Senior Synthesis Seminar	3
ENG 310 Media Issues	3

Elective Courses (12) Choices must be approved by the student's advisor. At least six hours must be from the 300-400 level.

ART 201 Basic Computer Graphics	3
ART 215 Digital Photography	3
ART 217 Black & White Photography	3
ART 232 Web Design X	3
ART 322 Graphic Design: Print Media	3
ART 332 Graphic design: Typography & Logo Systems	3
BUS 230 Computer Applications	3
BUS 304 Advertising	3
BUS 308 Business Communications	3
BUS 311 Marketing	3
COM 141 & 241 Radio Performance Practicum	1 each
COM 211 Radio Broadcasting Methods	3
COM 271 Online Media	3
COM 236 – 437 Video Production Practicum	1 each
COM 359 Documentary Photography	3
COM 499 Internship	3
CSC 100 Computer Literacy	3
CSC 230 Web Design	3
ENG 131 – 432 Journalism Practicum	1
ENG 141 – 442 Creative Arts Practicum	1
ENG 221 Introduction to Film	3
ENG 311 News Writing and Editing	3
ENG 312 Feature Writing and Production	3
ENG 315 Media Management	3
ENG 338 Rhetoric	3
ENG 433 Small Group Communication	3
ENG 461 Professional Writing	3
HON 213 Media and Violence	3
REL 216 Religion in Film	3
SSC 299 Digital Storytelling: An Academic and Community based Research Experience	3
THA 203 Video Production Workshop	3
THA 222 Voice and Diction	3
Total Hours Required in Major (minor required)	36

Philosophy

(minor required) *B.A. Degree*

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.

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

- PHI 498, 499 Senior Seminar

Degree Specific Requirements:

Foreign language (at least 6 hours at the 200 level or above)

Required Courses (37)

Methodology (6 hours)

PHI 101 Logic	3
PHI 301 Fundamentals of Writing Philosophy	3

History of Philosophy (at least 9 hours)

PHI 221 Survey of Ancient and Medieval Philosophy	3
PHI 222 Survey of Modern Philosophy	3
PHI 321 19th Century Continental Philosophy	3
PHI 332 Phenomenology and Existentialism	3

Problems of Philosophy (at least 9 hours)

PHI 211 Ethics	3
PHI 316 Philosophy of Law	3
PHI 331 Metaphysics	3
PHI 326 Philosophy of History	3
PHI 431 Philosophy of Religion	3

Advanced (6 hours)	
PHI 481 Seminar: Topics in Philosophical Studies	3
PHI 482 Seminar: Topics in Philosophical Studies	3
Experiential (4 hours)	
PHI 498 Senior Seminar in Philosophy	2
PHI 499 Senior Seminar in Philosophy	2
Electives (3 hours)	
Additional hours selected from any of the above requirements not taken otherwise or any of the electives listed below	
PHI 131 The Human Condition	3
PHI 311 Business Ethics	3
PHI 312 Professional Ethics	3
PSC 303 Ancient, Medieval, and Early Modern Political Theories	3
PSC 304 Modern Ideologies	3
REL 331 Christian Theology	3
(May include up to three religion courses with the approval of the philosophy coordinator)	
Total Hours Required in Major	37
(minor required)	

Political Science

(minor required) B.A. or B.S. Degree

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

 PSC 399 Citizenship and Service Learning

Degree Specific Requirements:

 B.S. Degree: Choose any two: HIS 101, 102, 201 or 202 6

 B.A. Degree: 6 hours of Foreign Language at 200-level or above

Required Courses (15 hours)

 PSC 101 American National Government and Politics 3

PSC 101 American National Government and Politics	3
PSC 202 State and Local Government or PSC 203 International Politics or PSC 205 Comparative Government	3
PSC 399 Citizenship and Service Learning	3
PSC 498 Political Science Senior Seminar	3
SSC 251 Introduction to Social Science Research	3
Government Major Electives (Choose 6 hours from the following):	
PSC 310 Political Parties and Groups in the U.S.	3
PSC 324 U.S. Constitutional Law	3
PSC 384 The President and Congress*	3
PSC 420 War and Peacekeeping – U.S. National Security Policy	3
Comparative and International Relations Major Electives (Choose 6 hours from the following):	
PSC 302 Political Geography	3
PSC 306 Politics and Human Rights	3
PSC 435 Political Economy of Development	3
PSC 440 International Law and Organization**	3
Theory and Methods Major Electives (Choose 6 hours from the following):	
PSC 300 Research Methods	3
PSC 303 Political Theory from Socrates to Locke	3
PSC 304 Modern Ideologies	3
PSC 402 Policy Analysis	3
Other Major Electives (Choose 6 hours from the following):	
May be any Political Science courses not used to satisfy the above requirements.	
PHI 101 Logic	3
PSC 207 Special Issues	3
PSC 277 African Film, Politics, and Literature	3
PSC 491 Topics	3
PSC 496 Individual/Collaborative Study	3
PSC 499 Internship	3-9
Total Hours Required in Major	39
(minor required)	

Prerequisites: *PSC 101, **PSC 203

Pre-Professional Science

B.S. Degree

The Pre-Professional Science curriculum permits maximum flexibility for a student with specific professional goals in science. Beyond the basic required courses, a student may develop a program of study with a specific emphasis or a broad introduction to several fields of science. This curriculum is particularly appropriate for students in the pre-medical, dental, podiatry, optometry, or veterinary sciences, or for students interested in a variety of other health care careers, as well as for students interested in teaching more than one science at the secondary level. Also, this major can be adapted for the specific needs of those students interested in interdisciplinary graduate programs in the life or physical sciences.

Ferrum College has Articulation Agreements with the following colleges and universities:

Edward Via Virginia College of Osteopathic Medicine (DO)

New York College of Podiatric Medicine (DPM)

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

CHM 103, 104, 301, 302

PHY 201, 202 **OR** 203, 204

BIO 201 **OR** 254

BIO 202 **OR** 301 **OR** 306

Required Liberal Arts Core Courses

BIO 111 General Biology 4

MTH 208 Statistics **OR** ESC 202 Quantitative Environmental Methods and Statistics 3 or 4

MTH 211 Calculus* 4

* Students will be expected to complete their Calculus requirement ahead of either Physics sequence

Required Courses (42 hours)

BIO 201 Vertebrate Zoology **OR** 254 Human Anatomy 4

BIO 202 Plant Science **OR** 301 Invertebrate Zoology **OR** 306 Nonvascular Plants and Fungi 4

BIO 230 Introduction to Cell and Molecular Biology 3

BIO 305 Genetics 4

CHM 103, 104 General Chemistry 8

CHM 301, 302 Organic Chemistry 8

CHM 315 Biochemistry 4

PHY 201, 202 General Physics* **OR** 203, 204 Fundamentals of Physics* 8

NSM 307 Junior Seminar 2

NSM 497, 498 Senior Seminar and Presentation

4

* Students will be expected to complete their Calculus requirement ahead of either Physics sequence

Elective Courses (6 hours)

6 additional credit hours approved by the student's advisor and the Director of Professional Health Sciences no later than the fall of the student's junior year. At least 4 hours must be taken at the 300-400 level.

Total Hours Required in Major 55

Psychology

(minor required) B.A. or B.S. Degree

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 receiving the recommendations of two psychology faculty members, by earning a 2.5 grade-point average, and by successfully completing an interview with departmental faculty members. Further preparation is provided by opportunities to participate in the Psychology Club, Psi Chi, the National Honor Society in Psychology, and the professional psychological conferences, a regional undergraduate spring meeting at which Ferrum students frequently qualify to present their research papers.

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

- PSY 299 Field Experience
- PSY 306 Research Methods in Psychology I
- PSY 307 Research Methods in Psychology II
- PSY 496 Directed Study
- PSY 499 Internship

Required Liberal Arts Core Courses

Students majoring in Psychology must take MTH 107. MTH 208 is highly recommended.

Degree Specific Requirements

Six hours of foreign language are required as Degree Specific Requirements for the B.A. degree in psychology. MTH 306 is highly recommended.

Required Courses (19 hours):

PSY 201 General Psychology	3
PSY 206 APA Style Writing	2
PSY 297, 398 Professional Seminar	2
PSY 306 Research Methods in Psychology I	3
PSY 307 Research Methods in Psychology II	3
PSY 333 Biological Psychology	3
PSY 498 Professional Seminar IV: Science of Psychology	3

Major Electives (Choose 20 hours from the following):

PSY 211 Human Growth and Development – Child and Adolescent	3
PSY 212 Human Growth and Development – Adulthood	3
PSY 230 Social Psychology	3
PSY 298 Pre-Professional Placement	3
PSY 299 Field Experience	1-2
PSY 314 Learning	3
PSY 320 Abnormal Psychology	3
PSY 325 Psychopathology in Children	3
PSY 328 Health Psychology	3
PSY 331 Cognitive Development	3
PSY 335 Psychological Assessment	3
PSY 340 Personality	3
PSY 345 Sport Psychology	3
PSY 348 Introduction to Techniques of Counseling	3
PSY 438 Topics in Psychology	1-9
PSY 450 History and Systems of Psychology	3
PSY 496 Directed Study in Psychology	1-3
PSY 499 Internship	3-9

Total Hours Required in Major 39
(minor required)

Prerequisites

PSY 201 is normally a prerequisite for all other psychology courses. For PSY 211, 212, and 230, permission of the instructor may be substituted for the PSY 201 prerequisite. There are additional prerequisites for PSY 306-307, PSY 348, PSY 450, PSY 496 and PSY 498 (see course descriptions).

Recreation Leadership

(minor required) B.S. Degree

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.

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

REC 499

Required Liberal Arts Core:

ESC 102 Introduction to Environmental Science	4
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Degree Specific Requirements:

BUS 201 Personal Finance	3
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SSC 251 Introduction to Social Science Research	3
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ESC 313 Natural Resource Management	3
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BUS 311 Marketing	3
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Required Courses: (36 hours)

REC 103, 104, 106 or REC 139	1
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ECT 165 World Ecotourism Destinations and Cultures	3
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REC 260 Foundations of Recreation and Leisure	3
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REC 360 Recreation Leadership Theory and Philosophy	3
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REC 319 Recreation Delivery Systems	3
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REC 341 Program Planning and Leadership	4
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REC 350 Risk Management, Safety, and Legal Issues in Recreation Administration	3
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REC 410 Recreation Administration	3
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REC 413 Recreation Facility Planning, Development, and Maintenance	3
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REC 440 Recreation Seminar	3
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REC 450 Special Events Planning and Management	3
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REC 499 Internship	4
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Required Electives (Choose 3 credits from the following):

ACC 201 Principles of Accounting I	3
BUS 304 Advertising	3
CSC 230 Web Design	3
ECO 315 Environmental and Natural Resource Economics	3
ECT 257 Interpreting Culture and Nature	3
ECT 265 Foundations of Ecotourism	3
ECT 357 Applied Interpretation	3
ECT 391 Culture and Heritage Tourism Development	3
ECT 421 Issues in Sustainable and Ecotourism	3
EPD 201 Introduction to Environmental Planning and Development	3
EPD 202 Introduction to Environmental Planning and Development	3
ESC 302 Conservation Biology	3
HHP 200 Health and Wellness Concepts	3
REC 325 Wilderness Leadership I (non-Outdoor Rec minors only)	3
REC 343 Facilitation of Adventure Pursuits (non-Outdoor Rec minors only)	3
REC 475 Special Topics	3
SOC 470 Social Science Research	3
Any Study-Abroad /E-term Travel Course: (i.e. ESC-205, 206, 207, 208, REC-372 or other similar courses.	3-4
Any Foreign Language course	3

**Total Hours Required in Major 39
(minor required)**

Religion

B.A. Degree

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 in reading, writing, analyzing, and speaking. The major offers two programs of study: a religion major with an emphasis in Christian Ministry that does not require a minor and a religion major with a minor required.

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

REL 399 or REL 481 & 482

Degree Specific Requirements:

6 hours of a foreign language

Required Major Courses: Select 18 hours from the following areas:

Biblical (Choose 6 hours from the following):

REL 111 Literature of the Bible	3
REL 112 Literature of the Old Testament	3
REL 113 Literature of the New Testament	3
REL 311 Prophetic Literature of the Old Testament	3
REL 312 Wisdom Literature of the Old Testament	3
REL 315 Studies in the Gospels	3
REL 316 Life and Letters of Paul	3

Historical (Choose 3 hours from the following):

HIS 321 Religion in American History	3
PHI 221 Survey of Ancient and Medieval Philosophy	3
PHI 222 Survey of Modern Philosophy	3
REL 222 History of Christian Thought	3
REL 401 Biblical Archaeology	3

Theological (Choose 3 hours from the following):

HON 225 Religion and Science: Historical and Contemporary Perspectives	3
PHI 211 Ethics	3
PHI 431 Philosophy of Religion	3
REL 206 The Search for Values	3
REL 216 Religion in Film	3
REL 245 Religion and Public Life	3
REL 331 Christian Theology	3

Comparative (3 hours):

REL 151 World Religions	3
REL 207 Selected Topics (when topics include non-Christian religions: e.g., Islam or Hinduism and Buddhism courses have been offered in recent years.)	

Seminar (3 hours):

REL 481 or 482 Seminar in Religious Studies	3
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Total Required Major Common Courses 18**I. Religion Major (minor required)**

Additional REL courses (18 hours)

The religion major may include up to three philosophy courses with the approval of the program coordinator.

Total Hours Required in Major 36
(minor required)

II. Religion Major with Christian Ministries Emphasis:

(Must include Required Courses and Degree Specific Requirements, in addition to the following)

REL 230 Foundations of Christian Education	3
REL 397, 398 or 399 Ministry Practicum	3

Additional REL courses (15 hours)

May include up to three philosophy courses with the approval of the program coordinator.

18 hours from the following: (at least 9 hours must be at the 300-400 level)

ACC 201 Principles of Accounting I	3
ACC 202 Principles of Accounting II	3
ART 324 Art for Children	3
BUS 303 Principles of Management	3
COM 201 Public Speaking	3
THA 201 Play Production	3
THA 222 Voice and Diction	3
THA 336 Creative Dramatics in School, Church, and Community	3
ENG 301 Literature for Children and Adolescents	3
ENG 311 News Writing and Editing	3
ENG 338 Rhetoric	3
HUM 250 Computer Applications for the Humanities	3
MUS 131 (vocal groups) or MUS 141 (instrumental groups)	1
MUS 426 Music for Children	3
HHP 145 Rhythmics, Movement, and Games	1
PSY 211 Human Growth and Development – Child and Adolescent	3
PSY 212 Human Growth and Development – Adulthood	3
PSY 340 Personality	3
PSY 348 Techniques of Counseling	3
REC 260 Foundations of Recreation and Leisure	3
REC 320 Programming for Outdoor Recreation	3
REC 321 Outdoor Recreation Concepts and Programs	3
REC 340 Leadership and Group Social Behavior	3
REC 380 Financial Planning and Budgeting	3

SOC 202 Social Problems	3
SOC 205 Marriage and the Family	3
Total Hours Required in Major (Christian Ministries Emphasis)	57

Russian

(minor required) *B.A. Degree*

The Russian major provides a program of study designed to give students fluency in oral and written communication, the ability to read, understand, and analyze Russian literature, and fundamental background knowledge of Russian culture, cinema, and folklore. The Russian major also prepares students for travel and study in Russia and Eurasia for careers in international business and in government, for professions involving foreign language, and for graduate work in Russian. With a major in Russian, students will acquire a foreign language proficiency of value not only in career pursuits but also in the broader experience of today's world.

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

- An approved Study Abroad program (semester or summer)
- An E-Term in Russian
- RUS-451 **or** RUS-452

Required Courses: Choose 24 hours from the following:

RUS 301 Advanced Russian I	3
RUS 302 Advanced Russian II	3
RUS 303 Russian and Soviet Film	3
RUS 304 Russian Culture	3
RUS 305 Advanced Grammar	3
RUS 306 Russian Folklore	3
RUS 401 Russian Literature of the 19 th Century	3
RUS 402 Russian Literature of the 20 th Century	3
RUS 412 Structure of Russian	3
RUS 451 Directed Study	3
RUS 452 Directed Study	3
RUS 499 Internship	3 - 9

Liberal Arts and/or Social Science Electives: Choose 6 hours from the following:

BUS 420 International Business	3
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ECO 330 International Trade	3
ENG 201 World Literature I	3
ENG 202 World Literature II	3
ENG 210 World Folktales and Literature	3
ENG 401 Literary Criticism	3
HIS 312 US Foreign Policy since 1945	3
HUM 300 Holocaust	3
HUM 333 Intercultural Conflict Mediation	3
PSC 302 Political Geography	3
REL 111 Literature of the Bible	3
REL 151 World Religions	3
Total Hours Required in Major	30
(minor required)	

Social Studies (minor required) B.S. Degree

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.

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

Any History or Political Science E-Term course, any Study Abroad course which grants academic credit or HIS 498 Senior Seminar / 499 Senior Thesis.

For licensure in Social Studies, students must complete EDU 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis.

Required Liberal Arts Core Courses:

HIS 201, 202 American History	6
PSC 101 American Government	3
REL 151 World Religions	3

Degree Specific Requirements:

SCI 121 Population, Food, and Environment	2
COM 201 Public Speaking	3

Required Courses (27 hours):

HIS 101 Western Civilization	3
ECO 201 Macroeconomics	3
PSC 202 State and Local Government	3
HIS 205 European History 1500-1789	3
HIS 206 European History 1789-1945	3
PSC 302 Political Geography	3
PSC 304 Modern Ideologies	3
HIS 316 Virginia History	3
HIS 398 Historiography	3

Non-Western history (Choose 3 hours from the following):

HIS 371 China	3
HIS 373 India	3
HIS 374 Southeast Asia	3
HIS 375 Subsaharan Africa	3
HIS 378 North Africa	3
HIS 380 Latin America	3
HIS 382 U.S.-Latin American Relations	3

Major Electives (Choose 9 hours from the following):

Any 300/400 level HIS or PSC courses.

Total Hours Required in Major 39
(minor required)

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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. 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. Degree

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 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.

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

SWK 489 Senior Field Practicum and Seminar I	3
SWK 499 Senior Field Practicum and Seminar II	9

Degree Specific Requirements

BUS 230 Computer Applications or CSC 100 Computer Literacy	3
ECO 201 Macroeconomics, PSC 101 American National Government and Politics, or PSC 202 State and Local Government	3

Admission to the Program:

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:

Required Liberal Arts Core Courses:

ENG 102 Composition and Research	3
BIO 112 General Biology, II or	4
SCI 128 The Healthy Human Body <i>and</i> SCI 129 The Diseased Human Body	
SOC 101 General Sociology or SOC 202 Social Problems	3

Required Pre-Professional Status Courses:

PSY 201 General Psychology	3
SWK 201 Introduction to Social Work	3

PSY 201 General Psychology	3
SWK 297 Professional Preparation Seminar I	1

Students not meeting all the above 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 above Required Liberal Arts Core and Pre-Professional courses are completed, students should have completed or plan to enroll in SWK 297 Professional 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.

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, s/he will be removed from the program. The student would have to formally reapply for consideration to be readmitted.

Required Courses Professional Status:

PSY 211 Human Growth and Development - Childhood and Adolescents OR	3
PSY 212 Human Growth and Development - Adulthood	
PSY 320 Abnormal Psychology	3
SOC 203 U.S. Cultural Diversity	3
SOC 470 Social Sciences Research	3
SSC 251 Introduction to Social Science Research	3
SWK 305 Social Work Practice I	3
SWK 320 Social Welfare Policy: History, Philosophy, and Current Policies	3
SWK 321 Social Welfare Policy: Analysis, Formulation, & Implementation	3
SWK 330 Human Behavior and the Social Environment	3
SWK 397 Professional Preparation Seminar II	1
SWK 405 Social Work Practice II	3
SWK 410 Social Work Practice III	3
SWK 489 Field Practicum and Seminar I	3
SWK 497 Professional Preparation Seminar III	1
SWK 498 Senior Field Practicum and Seminar I	3
SWK 499 Field Practicum and Seminar II	9

Total Hours Required for Major 57

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.

Spanish

(minor required) *B.A. Degree*

The Spanish major provides a program of study designed to give fluency in oral and written communication, the ability to read, understand, and analyze Hispanic literature, and an appreciation of the cultures of Spain and Latin America. The Spanish major also prepares the student for travel and study abroad, for careers in international business and in government, for professions involving foreign language, and for graduate work. With a major in Spanish, students will acquire a foreign language proficiency of value not only in career pursuits but also in the broader experience of today's world.

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

- An approved study abroad program
- An E-Term in Spanish
- SPA 499.

Required Major Courses (9 hours):

SPA 301 Advanced Grammar and Composition	3
SPA 302 Advanced Speaking and Comprehension (Speaking Intensive)	3
SPA 498 Senior Thesis (to be done in the senior year)	3

Major Electives (Any 21 hours from the following):

SPA 201 Intermediate Spanish I	3
SPA 202 Intermediate Spanish II	3
SPA 320 Introduction to Literature in Spanish	3
SPA 325 Spanish Culture	3
SPA 326 Latin American Culture	3
SPA 351, 352 Conversation Circle	1 each
SPA 403 Latin American and Spanish Short Story	3
SPA 404 Selected Topics in Hispanic Literatures	3
SPA 411 Professional Spanish	3
SPA 451 Directed Study	3
SPA 452 Directed Study	3
SPA 499 Internship	3

Liberal Arts Electives (Any 6 hours from the following):

ECO 430 Development Economics	3
ENG 201 World Literature I	3
ENG 202 World Literature II	3
ENG 210 World Folktales and Literature	3

ENG 401 Literary Criticism	3
HIS 380 Latin America	3
HIS 382 U.S.---Latin American Relations	3
PSC 302 Political Geography	3
PSC 306 Politics and Human Rights	3
PSC 435 Political Economy of Development	3
REL 111 Literature of the Bible	3
REL 113 Literature of the New Testament	3
REL 151 World Religions	3

Total Hours Required in Major 36
(minor required)

Spanish Education Endorsement

Ferrum College offers teaching licensure in Spanish (grades PK-12) through the selection of a minor in Teacher Education with specialization in All-Level Education. This licensure requires passing state mandated testing prior to enrollment in EDU 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor. ([See Teacher Education minor](#))

- PSY 211 & PSY 291 required
 EDU 310, EDU 312 and ENG 336 must be taken as part of the major to fulfill the understanding of how to apply basic concepts of phonology, syntax, and morphology to the teaching of the foreign language both at the elementary and secondary levels.

Teacher Education

(See Teacher Education Minor)

Theatre Arts

B.A. or B.F.A. Degree

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.

(Minor Required) B.A.

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 Theatre Arts Courses (34 hours):

THA 111 Fundamentals of Acting I (with a "C" or higher)	3
THA 202 Stage Craft	3
THA 205 Applied Summer Theatre I	3
THA 246 Play Production I: Beginning Directing	3
THA 300 Auditions and Makeup	3
THA 301 World Theatre through the 18 th Century	3
THA 302 World Theatre 18 th Century to the Present	3
THA 320 Advanced Acting and Performance Theory	4
THA 336 Creative Dramatics in School, Church, and Community	3
THA 446 Play Production II: Advanced Directing	3
THA 498 Senior Seminar	3

Theatre Electives (Choose 5 hours from the following):

THA 100 Theatre Appreciation	3
THA 203 Video Production Workshop	3
THA 233 Introduction to Musical Theatre	3
THA 282-288 Performance Practicum (up to 2 for credit)	1 each
THA 305, 405 Applied Summer Theatre II, III	3 each
THA 346 Readers Theatre	3
THA 412, 413, 414 Special Theatre Topics	1-3
THA 499 Internship	3-6

Total Hours Required in Major 39
(minor required)

(A minimum of 19 hours at the 300-400 level required)

Teacher Licensure

(For B.A. Degree with Teacher Education minor for all-level licensure required)

Ferrum College offers teaching licensure in Theatre Arts (grades PK-12) through the selection of a minor in Teacher Education with specialization in All-Level Education. This licensure requires passing state mandated testing prior to enrollment in EDU 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis. Students pursuing licensure must complete all components of the Teacher Education Minor.

Required Liberal Arts Core and Degree Specific Courses (18 hours)

ENG 201, 202, 203, or 204	6
DAN (any two classes)	2
PSY 201 General Psychology	3
PSY 211 Child & Adolescent Development and	3
PSY 291 Practicum and Child Development Lab	1
MUS 426 Music for Children	3

(No Minor Required) B.F.A.

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 two emphasis areas: Acting/Directing and Musical Theatre.

Required Common Theatre Courses for both Emphasis Areas:

THA 111 Fundamentals of Acting I	3
THA 205 Applied Summer Theatre I	3
THA 300 Auditions and Makeup	3
THA 301 World Theatre I through the 18 th Century	3
THA 302 World Theatre II through the Present	3
THA 320 Advanced Acting	4
THA 498 Senior Seminar	3
THA 499 Internship	3

A. Acting/Directing Emphasis (32 hours)

Acting/Directing Electives: Choose 14 hours from the following:

THA 112 Fundamentals of Acting II	3
THA 202 Stagecraft	3
THA 203 Video Workshop	3
THA 246 Play Production I: Beginning Directing	3

THA 305, 405 Applied Summer Theatre II, III	3 each
THA 336 Creative Dramatics in School, Church, and Community	3
THA 346 Readers Theatre	3
THA 412, 413, 414 Special Topics	1-3
THA 446 Play Production II: Advanced Directing	3
THA 481 Academic Theatre Practicum	1
Communication & Media Electives: Choose 9 hours from the following:	
COM 101 Introduction to Mass Communication	3
COM 141, 241, Radio Performance Practicum/Seminar	3
COM 271 Online Media	3
COM 304 Communication Research	3
COM 359 Documentary Photography	3
English Required:	
ENG 365 Shakespeare	3
English Electives: Choose 6 hours from the following	
ENG 142 – 442 Creative Arts Practicum (1 credit each)	
OR ENG 131 – 432 Journalism Practicum (1 credit each)	3
ENG 218 Introduction to Creative Writing	3
ENG 221 Introduction to Film	3
ENG 428 Contemporary Literature and Film	3
Total Hours Required in Major	57
B. Musical Theatre Emphasis (32 Hours)	
Required Theatre Courses:	
THA 233 Introduction to Musical Theatre	3
THA 333 Advanced Musical Theatre	3
Required Music Courses:	
MUS 153 Voice I	1
MUS 154 Voice II	1
MUS 131-432 Vocal Ensembles (1 credit each)	3
MUS 102 Fundamentals of Music	3
MUS 203 Harmony and Musicianship I	3
MUS 204 Harmony and Musicianship II	3
Required Dance Courses:	
DAN 105 Beginning Dance Styles	1
DAN 106 Intermediate Dance Styles	1
DAN 110 Beginning Dance for Performance	1
DAN 111 Intermediate Dance for Performance	1
DAN 121 Rhythm with the Feet	1
DAN 122-323 Private Dance	2

Elective Choices (Choose 5 hours from the following):

THA 202 Stagecraft	3
THA 246 Play Production I: Beginning Directing	3
THA 305, 405 Applied Summer Theatre II, III	3
THA 336 Creative Theatre in School, Church and Community	3
THA 412, 413, 414 Special Topics	1-3
THA 446 Play Production II: Advanced Directing	3
MUS 131-432 Vocal Ensembles	1
MUS 480 Music Seminar: Advanced Topics in Music	3

Total Hours Required in Major 57

(At least 21 hours at 300-400 level required)

Certificate Programs

Certificates are a group of related courses and experiences that complement both major and minor programs of study. Successful completion of certificate requirements is noted on the student's transcript, thus acknowledging to prospective employers the accomplishment of a value-added education guided by the student's own initiative that goes beyond the standard programs of study and better prepares the individual for life and work in the twenty-first century. Certificates may be earned as a way to add to one's educational portfolio. Certificates, however, will not be awarded without the completion of a degree.

African-American Studies
 Agricultural Entrepreneurship
 Entrepreneurship Studies
 Global Perspectives

Professional Accountancy
 Stewardship toward Sustainability
 Women's Studies

The African-American Studies Certificate

The African-American Studies Certificate recognizes those Ferrum College students at graduation who have selected their classes, regardless of major, in order to study and research about African-descended people, and particularly their experiences here in the United States.

This certificate will require a minimum of twelve credit hours selected from the following list of courses, with no more than six hours from any one discipline, a minimum of six hours from three hundred or four hundred level courses, and a grade point average of at least 2.5 for those selected courses. At least one of the courses must be ENG 209, HUM 302 or SOC 203. The certificate also requires completion of a fifteen to twenty page Capstone Research Paper that demonstrates integration of the courses taken along with additional outside resources. Courses selected to meet the requirements for this certificate cannot also be used to meet the requirements of the Women's Studies certificate.

A plan for certificate completion is developed and the complete plan is signed by the faculty member overseeing the certificate.

The courses from which the student must select 12 credits, listed in alphabetical order of discipline, are:

ECO 430 Developmental Economics	3
ECO 490* Selected Topics in Economics (see note below)	3
ENG 209 African American Literature	3
HIS 375 Sub-Saharan Africa	3
HIS 378 North Africa	3
HUM 302 African American Studies	3
HUM 333* Intercultural Conflict Mediation (see note below)	3

PSC 203 International Politics	3
PSC 207* Special Issues in Political Science (see note below)	3
PSC 306 Politics and Human Rights	3
PSC 491* Topics in Political Science (see note below)	3
SOC 203 Cultural Diversity	3
SOC 310 Social Class and Inequality	3

* Note: These four courses would require prior approval from the course instructor, in writing, for consideration of credit toward this certificate because the topics covered vary each semester they are offered.

Capstone Research Paper. This paper will be related to the student's studies and particular area of interest, and will be submitted and presented to a two-person faculty committee comprised of faculty from two different disciplines, selected by the student. The faculty members selected for this committee should be selected from among those who teach courses that are approved for this certificate program. The paper must receive a score of at least 75% using the attached grading rubric. The committee will notify the registrar's office upon satisfactory completion of this requirement.

Total Hours Required 12

Agricultural Entrepreneurship Certificate

The Agricultural Entrepreneurship Certificate provides students at Ferrum College the opportunity to focus their studies in a way that will enable them to succeed in businesses that thrive in an agricultural economy. Students will select business, science, and other classes that provide them with an understanding of the needs of the agricultural community and the business skills to meet those needs in a professional, ethical manner.

I: Complete the following course:

AGS 110 Agriculture Issues	3
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II: Select at least one of the following:

ASI 201 Introduction to Animal Science	4
BIO 202 Introduction to Plant Science	4

III: Select at least two hours from the following:

ASI 232 Livestock Evaluation and Judging	3
ASI 150, 151, 152, 153 Fitting and Showing	1 each
AGS 180, 181, 280, 281, 380, 381, 480, 481 Practicum	1 each
HOR 321 Plant Propagation	3
BUS 190 Free Enterprise Strategies and Implementation	1

IV: Select one of the following:

AGY 301 Principles of Field and Forage Crop Production	4
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ASI 302 Animal Nutrition	4
HOR 410 Greenhouse Management	4
V: Complete the following business, economics, and accounting courses:	
ACC 201 and 202 Principles of Accounting I & II	6
BUS 311 Marketing	3
BUS 313 Business Finance	3
BUS 315 Business Law	3
ECO 202 Microeconomics	3
VI: Select one of the following:	
AGS 417 Farm Business Management	3
BUS 320 Entrepreneurship	3
BUS 303 Principles of Management (only for non-business majors)	3
VII: Select one of the following:	
PHI 211 Ethics	3
PHI 311 Business Ethics	3
PHI 312 Professional Ethics	3
VIII: Capstone Research Paper	

This will be related to the student's studies and particular areas of interest, to be submitted and presented to a two-person, faculty committee comprised of faculty from business and agriculture. These committee members will be invited by the student to serve as committee members; they will not be the same members for every student. Generally in order to present the paper, the student must have demonstrated having completed all other requirements for the certificate. It is the committee's responsibility to notify the registrar's office of satisfactory completion of this research project and presentation.

Total Hours Required: 37-38 hours

(only 6 hours beyond business major if several of the above AGS, AGY, ASI or HOR courses are applied to the business major "approved electives").

Entrepreneurial Studies

The Entrepreneurial Studies Certificate recognizes those Ferrum College students at graduation who have selected their classes in order to study and research about operating successfully in a small business environment.

This certificate will require completion of the following business and accounting courses, with a minimum 2.5 grade point average in the required courses. The intention is that the successful completion of these courses, along with the courses students are required to take in their major, will enable them to operate successfully in a small business in a market that matches their major.

The certificate also requires completion of a seven to ten page Business Plan for a small business that demonstrates integration of the courses taken along with additional outside resources.

Students must complete a minimum of twelve credit hours of qualified courses that do not also satisfy specific requirements of their major. However, classes that satisfy elective requirements of a major (courses that can be selected from a group of courses to help satisfy a major) may be included in the twelve hours.

Required Courses for all certificate applicants:

ACC 201 Accounting Principles I and ACC 202 Accounting Principles II	6
BUS 313 Business Finance	3
BUS 315 Business Law	3
BUS 316 Retail Management or BUS 318 E-Commerce	3
BUS 320 Entrepreneurship	3
BUS 325 Advanced Computer Applications	3

Course electives for those needing courses in addition to the above to meet the minimum twelve qualified credit hours:

ACC 405 Taxation	3
BUS 190, 290, 390 ENACTUS (Entrepreneurial Action Us)	1 each
BUS 291, 292, 391, 392 Service Learning Experiences in Bus. Admin.	1 each
BUS 311 Marketing or 318 E-Commerce (<i>if not used above</i>)	3
PHI 211 Ethics 311 Business Ethics or 312 Professional Ethics	3
SOC 330 Organizations and Behavior	3

Business Plan This paper will be related to the student's studies and particular area of interest, and will be submitted and presented to a two-person faculty committee comprised of faculty selected by the student. The faculty members selected for this committee should be selected from among those who teach courses that are approved for this certificate program. The paper must receive a score of at least 75% using the attached grading rubric. The committee will notify the registrar's office upon satisfactory completion of this requirement.

Total Hours Required 12

Global Perspectives Certificate

The Global Perspectives Certificate provides students at Ferrum College the opportunity to expand their education beyond the boundaries of a standard major by selecting courses designed to prepare them for life in the twenty-first century, where traditional boundaries are rapidly giving way to broader cultural and global issues that demand new perspectives and new insights and knowledge. Completion of the requirements of the Global Perspectives Certificate will prepare students to become better informed, socially responsible, and environmentally conscious members of the national and world community, and thus better able to “collaborate with people of diverse cultural attitudes, beliefs, and values”—as stated in the college’s student learning outcomes.

Requirements:

I. A minimum of six hours of foreign language study. More recommended. (6 hours)

II. Religion 151 (World Religions) is required as the second course to fulfill the required 6-hour religion/philosophy core requirement.

III. A minimum of one course from the following list (3 hours):

PSC 277 African Politics, Film and Literature	3
ENG 202 World Literature	3
THA 302 World Drama	3
RUS 402 20th Century Literature	3
SPA 403 Latin American and Spanish Short Story (taught in Spanish)	3
SPA 404 Selected Topics in Hispanic Literature (taught in Spanish)	3

IV. A minimum of one course from the following list (3 hours):

HIS 371 China	3
HIS 373 India	3
HIS 374 Southeast Asia	3
HIS 375 Sub-Saharan Africa	3
HIS 378 North Africa	3
HIS 380 Latin American History	3
RUS 304 Russian Culture	3
SPA 325 Spanish Culture	3
SPA 326 Latin American Culture	3

V. One of the following science courses (2 hours): (Substitutions may be made)

SCI 121 Population, Food and Environment	2
SCI 123 Global Ecology and Climate Change	2
SCI 126 Natural Resource Conservation	2

SCI 121 Population, Food and Environment	2
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VI. One of the following (3 hours): (This category provides choices related to the varied interests of the students pursuing a Global Perspectives Certificate)

ACC 407 International Accounting	3
BUS 420 International Business	3
BUS 492, 493 Global Competitiveness Practicum	3
ECO 315 Environmental and Natural Resource Economics	3
ECO 330 International Trade	3
HUM 300 Holocaust	3
HUM 333 Intercultural Conflict Mediation	3
PSC 306 Politics and Human Rights	3
PSC 435 Political Economy of Development	3
PSC 440 International Law and Organization	3

VII. An international travel E-Term course or an approved study abroad course with another provider. (3 hours)

VIII. Capstone research paper related to the student's studies and particular areas of interest, to be submitted to a faculty committee and presented at an annual symposium for students seeking the Global Perspectives Certificate. Generally in order to present the paper, the student must have demonstrated having completed all other requirements for the certificate.

Total Hours Required 23

Professional Accountancy Certificate:

The Professional Accountancy Certificate provides students at Ferrum College the opportunity to focus their studies in a way that will provide all of the academic coursework necessary for them to become a Certified Public Accountant (CPA), prepare them to pass the rigorous CPA exam, and succeed in the workplace as a professional accountant. Students will select accounting, business, and other classes that provide them with an understanding of the various roles professional accountants fill, and the knowledge and skills demanded to fill those roles in a professional, ethical manner.

Requirements:

I: Complete the following courses:

ACC 201 Principles of Accounting I	3
ACC 202 Principles of Accounting II	3

ACC 301 Managerial Accounting	3
ACC 302 Intermediate Accounting I	3
ACC 303 Intermediate Accounting II	3
ACC 304 Advanced Accounting	3
ACC 306 Government and Non-Profit Accounting	3
ACC 403 Auditing	3
ACC 405 Taxation	3
ACC 408 Accounting Software Applications	3
BUS 230 Computer Applications	3
BUS 303 Principles of Management	3
BUS 308 Business Communications	3
BUS 311 Marketing	3
BUS 313 Business Finance	3
BUS 315 Business Law	3
BUS 498 Senior Seminar: Business Policy	3
II: Select four of the following (cannot be the same Electives used for the Accounting Major):	
ACC 401 Advanced Studies in Cost Accounting	3
ACC 407 International Accounting	3
BUS 314 Advanced Corporate Finance	3
BUS 325 Advanced Computer Applications	3
BUS 330 Quantitative Methods	3
BUS 331 Production Operation Methods	3
ECO 313 Money and Banking	3
ECO 400 International Finance	3
ECO 405 Government and Business	3
III: Select at least two hours from the following (experiential):	
ACC 290, 390, 490 Accounting Practicum	1 each
ACC 499 Accounting Internship	3
BUS 190 Free Enterprise Strategies and Implementation	1
IV: Complete the following (Liberal Arts Core and Degree Specific):	
ECO 201 Principles of Macroeconomics	3
ECO 202 Principles of Microeconomics	3
MTH 203 Concepts in Calculus	3
MTH 208 Introductory Statistics	3
MTH 306 Intermediate Statistics	3
V: select one of the following:	
PHI 211 Ethics	3
PHI 311 Business Ethics	3
PHI 312 Professional Ethics	3

VI: Capstone Research Paper

Related to the student's studies and particular areas of interest, to be submitted and presented to a two-person, faculty committee comprised of faculty from business and accounting who have been requested by the student to serve on the committee. Generally in order to present the paper, the student must have demonstrated having completed all other requirements for the certificate. The committee will notify the Registrar's Office of satisfactory completion of this paper.

Total Hours Required 83

The Stewardship toward Sustainability Certificate

This Certificate provides students at Ferrum College the opportunity to expand their education beyond the boundaries of a major through learning experiences designed to examine the human/nature relationship from a variety of perspectives. The certificate is a merging of three fields of study; bioculturalism, eco-social justice, and stewardship studies. Bioculturalism recognizes the co-evolutionary, interdependent relationship of humans in and with nature while eco-social justice critiques the current economic, political, environmental paradigms that promote dominance over nature. Meanwhile, stewardship studies examine the ethical roots of our responsibility with and for nature. Interdisciplinary by design, courses holistically focus on personal, cultural and societal perceptions, beliefs, and values that influence our relationship with the environment. Completion of the requirements of the Certificate prepares students to become leaders in budding fields stemming from a multitude of sustainability issues. Students will need to commit to two seminars per semester outside their course requirements in order to meet the interdisciplinary outcomes of this Certificate. These seminars intentionally explore the relationships between the students' courses and the topics of stewardship and sustainability.

Certificate Requirements

I. Successful completion of:

SSC 290 Stewardship toward Sustainability Immersion	3
EPD 202 Introduction to Environmental Planning and Development II	4
SSC 490 Stewardship toward Sustainability Capstone Seminar*	3

*Students may substitute a 400 level research or seminar course within their major contingent upon approval by the Certificate coordinator as well as the faculty instructing the research or seminar course. The student must complete the senior project for Stewardship toward Sustainability as described in SSC 490. If a faculty review panel is utilized, the Certificate Coordinator must be part of that review panel. If the substituted course is not designated as writing intensive, it will not count toward the six-credit-hour Writing Intensive graduation requirement for Ferrum College.

II. A minimum of 10 credits from the following list, with 3 or 4 credits from each section and at least 3 credits at the 300-400 level. These courses are selected to develop and define the students'

eco-social identity and eco-literacy. Courses selected to meet this requirement cannot be used to meet requirements in section III.

Select 3 credits from the following:

ENG 211 Literature and the Environment	3
ENG 350 Appalachian Literature	3

Select 3 credits from the following:

HHP 200 Health and Wellness	3
SSC 299 Digital Story Telling	3
SOC 101 General Sociology (Appalachian Cluster only)	3
REC 260 Foundations of Recreation	3
REC 325 Wilderness Leadership I	3
REC 329 Foundations of Adventure Based Counseling	3
REC 361 Outdoor Education	3
REC 372 Eco-Adventure	3
REC 375 Wilderness Leadership II	3
REC 391 Cultural & Heritage Tourism	3

Select 4 credits from the following:

ESC 205 Tropical and Marine Ecology	4
ESC 206 Community Ecology of the Southeast	4
ESC 203 Fundamentals of Ecology	4
GEO 220 Physical Geography	4
SCI 121 Population, Food, and Environment	2
SCI 122 The Disintegrating Web	2
SCI 123 Global Ecology and Climate Change	2
SCI 126 Natural Resource Conservation	2
SCI 141 Humans within Ecosystems	2

Total credits from section II: 10

III. A minimum of 9 credits from the following list with at least 3 credits at the 300-400 level. These courses are selected to develop and refine the student's understanding of cultural and system influences on our collective relationship with nature as well as effecting change toward sustainable living through creative leadership. Courses selected to meet this requirement cannot be used to meet requirements in section II.

Select 3 credits from the following:

PHI 211 Ethics	3
PHI 311 Business Ethics	3
REL 206 The Search for Values	3
REL 245 Religion and Public Life	3

Select 3 credits from the following:

ECO 315 Environmental and Natural Resource Economics	3
PSC 399 Citizenship and Service Learning	3

PSC 402 Policy Analysis	3
REC 325 Wilderness Leadership I	3
REC 361 Outdoor Education	3
REC 372 Eco Adventure	3
REC 375 Wilderness Leadership II	3
REC 421 Issues in Sustainable and Ecotourism	3
SOC 310 Social Class and Inequality	3
SOC 340 Collective Behavior and Social Movements	3

Select 3 credits from the following:

ESC 208 Ireland's Natural History: Interactions of Nature and Culture	4
ESC 310 Environmental Planning and Assessment	3
ESC 313 Natural Resource Management	3
ESC 207 South African Ecology and Culture	3

Total credits from Section III 9

Total Hours Required: 29

Women's Studies Certificate

The Women's Studies Certificate recognizes those Ferrum College students at graduation who have selected their classes, regardless of major, in order to study and perform research about women, their role in society, and the history and development of issues related to women.

This certificate will require a minimum of twelve credit hours selected from the following list of courses, with no more than six hours from any one discipline, a minimum of six hours from three hundred or four hundred level courses, and a grade point average of at least 2.5 for those courses. At least one of the courses must be ENG 212, HIS 306 or SOC 207. The certificate also requires completion of a fifteen to twenty page Capstone Research Paper that demonstrates integration of the courses taken along with additional outside resources. Courses selected to meet the requirements for this certificate cannot also be used to meet the requirements of the African American Studies certificate.

A plan for certificate completion is developed and the complete plan is signed by the faculty member overseeing the certificate.

The courses from which the student must select, listed in alphabetical order of discipline, are:

ECO 430 Developmental Economics	3
ECO 490* Selected Topics in Economics (see note below)	3
ENG 212 Women in Literature	3
HIS 306 Women in Twentieth-Century America	3
PSC 203 International Politics	3

PSC 207* Special Issues in Political Science (see note below)	3
PSC 306 Politics and Human Rights	3
PSC 435 Political Economy of Development	3
PSC 491* Topics in Political Science (see note below)	3
SOC 205 Marriage and the Family	3
SOC 207 Sociology of Sex and Gender Roles	3
SOC 310 Social Class and Inequality	3
Total Hours Required	12

* Note: These courses would require prior approval from the course instructor, in writing, for consideration of credit toward this certificate because the topics covered vary each semester they are offered.

Capstone Research Paper. This paper will be related to the student's studies and particular area of interest, and will be submitted and presented to a two-person faculty committee comprised of faculty from two different disciplines, selected by the student. The faculty members selected for this committee should be selected from among those who teach courses that are approved for this certificate program. The paper must receive a score of at least 75% using the attached grading rubric. The committee will notify the registrar's office upon satisfactory completion of this requirement.

Minors

NOTE: Students must complete at least 50% of the total hours required for a minor at Ferrum College.

Accounting

Art – Studio Arts

Business

Coaching

Computer Technology

Democracy, Justice and Civic Engagement

Educational Studies

Environmental Science

French

History

International Studies

Mathematics

Media and Communication

Musical Theatre

Philosophy

Psychology

Religion

Social Work

Spanish

Theatre Arts

Agriculture

Biology

Chemistry

Computer Science

Criminal Justice

Economics

Ecotourism

English

Forensic Science

Graphic Design

Horticulture

Journalism

Music

Outdoor Recreation

Political Science

Recreation Leadership

Russian

Russian Area Studies

Sociology

Teacher Education

Accounting

Required Courses

ACC 201 Principles of Accounting I	3
ACC 202 Principles of Accounting II	3

Other Courses

Any 300-400 level ACC courses	12
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Total Hours Required 18

Agriculture

(Not open to Agricultural Science majors)

Required Courses

AGS 110 Agriculture Issues	3
ASI 201 Animal Science	4
BIO 202 Plant Science	4

One of the following

AGY 301 Principles of Field/Forage Production	4
ASI 302 Animal Nutrition	4
Other Agricultural Science Courses at the 300-400 level	5

Total Hours Required 20

Art - Graphic Design Minor

(not open to Art majors)

FOUNDATIONS:

ART 101 Two Dimensional Design, Foundations	3
ART 105 The Color Course	3

INTRODUCTION TO MEDIA:

ART 201 Basic Computer Graphics	3
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ART HISTORY AND THEORY:

ART 325 Modern Art: The Twentieth Century	3
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STUDIO PRACTICE:

ART 215 Digital Photography	3
ART 322 Graphic Design: Print Media	3
ART 332 Graphic Design: Typography& Logo Systems	3

Total Hours Required (at least 9 at the 300-400 level) **21**

Art - Studio Arts Minor

FOUNDATIONS (select 6 credit hours from the following):

ART 104 Drawing Fundamentals, Foundations	3
ART 101 Two Dimensional Design, Foundations	3
ART 102 Three Dimensional Design, Foundations	3

INTRODUCTION TO MEDIA (select 6 credit hours from the following):

ART 201 Basic Computer Graphics	3
ART204 Intermediate Drawing	3
ART 206 Ceramics	3
ART 209 Illustration	3
ART 212 The Painting Studio	3
ART 215 Digital Photography	3
ART 217 Black & White Photography	3
ART 220 Introduction to Museum Studies	3
ART 232 Web Design X	3
ART 324 Art for Children	3

ART HISTORY AND THEORY (3 credit hours)

ART 325 Modern Art: The Twentieth Century	3
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STUDIO PRACTICE (select 6 credit hours from the following):

ART 306 Intermediate Ceramics	3
ART 304 Advanced Drawing	3
ART 311 Drawing Heads, Hands & Feet	3
ART 312 Intermediate Painting	3
ART 317 Intermediate Photography	3
ART 318 Sculpture	3
ART 322 Graphic Design: Print Media	3
ART 328 Intermediate Sculpture	3
ART 332 Graphic Design: Typography& Logo Systems	3

Total Hours Required (at least 9 at the 300-400 level) **21**

Biology

Required Courses

BIO 201 Vertebrate Zoology or 301 Invertebrate Zoology or 254 Human Anatomy	4
BIO 202 Introduction to Plant Science or 306 Nonvascular Plants	4
Other Biology courses (at least 7 hours from 300-400 level)	12

Total Hours Required 20

Business

Required Courses

ACC 201 Principles of Accounting	3
ECO 202 Principles of Microeconomics	3

Choose 12 hours from the following:

ACC 202 Principles of Accounting	3
ECO 201 Principles of Macroeconomics	3
Upper division 300-400 level Business courses	6-12

Total Hours Required 18

Chemistry

Required Courses

Chemistry courses (at least 7 hours from 300-400 level)	19
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Total Hours Required 19

Coaching

Required Courses

BIO 254 Anatomy and Physiology	4
BIO 255 Anatomy and Physiology	4
HHP 206 Introduction to Athletic Injuries	3
HHP 330 Coaching the Athlete	3
HHP 355 Physiology of Exercise	3
HHP 402 Organization and Administration of Sport	3

Total Hours Required 20

Computer Science

Required Courses

CSC 320 Programming using C++	3
CSC 321 Data Structures	4
Other Computer Science courses (200 level or above, at least 9 at 300-400 level)	12

Total Hours Required 19

Computer Technology

NOTE: The Computer Technology minor may not be declared by CIS majors.

Choose from the following (at least 9 hours at the 300-400 level)

Any CSC course (Excluding CSC 499 - Internship)	3-4
CSC 100 Computer Literacy or BUS 230 Computer Applications (cannot count both BUS 230 and CSC 100)	3
BUS 318 Introduction to Electronic Commerce	3
BUS 325 Advanced Computer Applications	3
BUS 430 Management Information Systems	3
ACC 408 Accounting Software Applications	3
ART 201 Computer Art and Graphics I	3

Total Hours Required 18

Criminal Justice

Required Courses

CJU 201 Introduction to Criminal Justice	3
CJU 204 Fundamentals of Corrections	3
CJU 220 Criminal Law	3
CJU/SOC 320 Deviance and Social Control	3
Any CJU courses not listed above, at least two courses (6 hours) at 300-400 level	6

Total Hours Required 18

Democracy, Justice and Civic Engagement

The Democracy, Justice and Civic Engagement minor explores the concepts and practices behind democratic citizenship, social justice and community engagement. A minor in DJCE would be useful for students seeking careers in law, community organizing, policy analysis, research and/or activism.

Required courses:

DJC 201 Understanding Democracy, Justice and Civic Engagement	3
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DJC 202 Practicing Democracy, Justice and Civic Engagement	3
DJC 350 Synthesizing Democracy, Justice and Civic Engagement	3
DJC 496 Individual or Collaborative Study	3
DJC 498 Democracy, Justice and Civic Engagement Senior Seminar	3
PSC 399 Citizenship and Service Learning	3

A student with a major in Democracy, Justice, and Civic Engagement cannot also earn a minor in Democracy, Justice, and Civic Engagement.

Total Hours Required 18

Economics

Required Courses

ECO 201 Principles of Macroeconomics	3
ECO 202 Principles of Microeconomics	3
Any 300-400 level courses in Economics	12

Total Hours Required 18

Ecotourism

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 students to be industry leaders in a rapidly expanding field.

Required Courses: (18 hours)

ECT 165 World Ecotourism Destinations and Cultures	3
ECT 265 Foundations of Ecotourism	3
ECT 257 Interpreting Culture and Nature	3
ECT 421 Issues in Sustainable and Ecotourism	3
ESC 302 Conservation Biology	3
REC 410 Recreation Administration	3

Required Electives (Choose 1 class from the following):

*Recreation Leadership majors: ECT-165 and REC-410 are included in the Recreation Major. Please select additional substitute courses from the electives list below.

BUS 304 Advertising	3
CSC 230 Web Design	3
ECO 315 Environmental & Natural Resource Economics	3
ECT 357 Applied Interpretation	3
ECT 391 Cultural and Heritage Tourism	3
ESC/SAB 207 South Africa Ecology and Culture	3

REC 372 EcoAdventure	3
REC 475 Special Topics	3
Total Hours Required	21

Educational Studies (Non-Licensure Minor)

This minor is specifically designed for students who have an interest in education but are NOT seeking licensure for public school teaching. This minor may suit students who are interested in pursuing an advanced degree or who are interested in working in positions where an in-depth understanding of educational topics may provide support for their chosen profession.

This minor is NOT designed to prepare students for teaching, but fits well as additional minor beyond the two selected for a Liberal Arts Degree.

- - Agriculture or Biology or Chemistry or Environmental Science
- - Psychology or History or Political Science
- - English or Foreign Language (Russian or Spanish)
- - Theatre Arts and Visual Arts
- - Mathematics
- - Philosophy or Religious Studies

This minor is NOT designed to provide an alternative route to licensure as a public school teacher. This minor does NOT substitute for the Teacher Education Program minor.

This minor should be declared upon the completion of the sophomore year.

Students who choose this minor MUST meet all prerequisites for EDU courses and MUST declare their intentions to pursue this non-licensure program upon the completion of EDU 302, and prior to additional enrollment in any EDU classes above EDU 302. Prerequisites for courses above EDU 302 require testing.

This minor does not satisfy the experiential component required by majors thus this requirement must be met within the student's chosen major.

Those interested in pursuing a Major in Physical Education and Health may not use the Educational Studies minor. Licensure is required for a Major in Physical Education and Health.

Required Courses

EDU 202 Issues in Education through Technology	3
EDU 302 Foundations of Education	3
SPD 220 Special Education	3
PSY 211 Human Growth and Development	3
PSY 291 Practicum and Child Development Lab (students pursuing only Elementary level)	1

Subtotal 13

Elective Cluster

EDU 310 Developmental & Diagnostic Reading and EDU 311 Language Arts (students pursuing Elementary level)	6
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OR

EDU 312 Content Reading Literacy and EDU 330 Middle School (students pursuing Secondary level)	6
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Total Hours Required 18/19

English

Required Courses

ENG 398 Junior Seminar	1
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ENG 498 Senior Seminar	2
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In addition to the required courses, students must take 15 hours of English beyond ENG 101 and 102, at least 6 of which must be at the 300 level or above and no more than 3 of which may be in Journalism Practicum or Creative Arts Practicum. 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.

Total Hours Required 18

Environmental Science

Required Courses

ESC 102 Introduction to Environmental Science	4
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ESC 203 Fundamentals of Ecology	4
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Other Environmental Science courses (at least 7 hours from 300-400 level)	13
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Total Hours Required 21

Forensic Science

Required Courses

BIO 111 General Biology	4
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CHM 301 Organic Chemistry I	4
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CHM 302 Organic Chemistry II	4
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CJU 335 Introduction to Forensic Investigations	3
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CHM 331 Forensic Science	4
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Prerequisite Liberal Arts Core Courses

Option 1:

CHM 101 Fundamentals of Inorganic Chemistry	4
CHM 105 Introduction to Organic and Biochemistry	4
<u>Option 2:</u>	
CHM 103 General Chemistry I	4
CHM 104 General Chemistry II	4
Total Hours Required	19

French

Choose 12 hours from the following:

FRE 301, 302 Advanced French	6
FRE 321, 322 Phonetics and Culture	6
FRE 401, 402 French Literature	6
FRE 403, 404 Professional French	6
FRE 451, 452 Directed Study	6
Total Hours Required (above 200 level)	12

History

Required Course

HIS 398 Historiography	3
Choose 6 hours from the following:	
HIS 101 Western Civilization	3
HIS 102 Western Civilization	3
HIS 201 American History	3
HIS 202 American History	3
HIS 205 Europe 1500-1789	3
HIS 206 Europe 1789-1945	3
300-400 level history courses or PHI 326	9
Total Hours Required	18

Horticulture

Required Courses

BIO 202 Introduction to Plant Science	4
HOR 219 Introduction to Horticulture	4
Other Horticulture courses (at least 9 hours from 300-400 level)	12
Total Hours Required	20

International Studies

Required Courses

PSC 203 International Relations	3
PSC 205 Comparative Government	3
Other courses from International Studies course listing at 300-400 level	15

Total Hours Required 21

Journalism

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.

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.

Required Courses

COM 101 Intro to Mass Communication	3
ENG 131, 132, 231 Journalism Practicum or COM 141, 241 Radio Practicum (one hour each, students choose three courses)	3
ENG 310 Media Issues	3
ENG 311 News Writing and Editing	3

Choose 6 hours from the following: (at least 3 at 300-400 level)

COM 271 On-line Media	3
COM 433 Media Scriptwriting	3
ENG 312 Feature Writing	3
ENG 315 Media Management	3
ENG 338 Rhetoric	3
ENG 398 and 498 Junior and Senior Seminar	3
ENG 461 Professional Writing	3
ENG 499 Internship	3-6
PSC 491 Special Topics in Political Science (when offered as Media and Politics)	3

Total Hours Required 18

Mathematics

Required Courses

MTH 211 Calculus	4
Additional Mathematics (200-level or above, at least 9 at 300-400 level, not to include MTH 320)	14

Total Hours Required 18

Algebra I add-on endorsement

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.

Courses required for an add-on endorsement:

Math 111 and 112*	6
Math 208	3
Math 211	4
Math 302	3
Math 311	3
Math 420	3
CSC 320 or 225	3/4

Total Hours Required 25/26

*Students who come to Ferrum with a strong background in Algebra and Trigonometry may choose to take Math 211 and Math 221 without taking Math 111 and Math 112. Students who complete this add on endorsement must have at least 24 credit hours of related course work. To receive a minor in Mathematics students must have 18 credit hours of Mathematics at the 200 level or above.

Media and Communication

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, filmmaking, 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 Intro to Mass Communication	3
COM 304 Communication Research	3
COM 369 Mass Media & Behavior	3

Choose 9 hours from the following (at least 3 hours must be 300-400 level).

ART 201 Basic Computer Graphics	3
ART 215 Digital Photography	3
ART 217 Black & White Photography	3
ART 232 Web Design X	3
ART 322 Graphic Design: Print Media	3
ART 332 Graphic design: Typography & Logo Systems	3
BUS 304 Advertising	3
BUS 308 Business Communications	3

BUS 311 Marketing	3
COM 201 Public Speaking	3
COM 271 Online Media	3
COM 359 Documentary Photography	3
CSC 100 Computer Literacy	3
CSC 230 Web Design	3
CSC 444 Computer Game Development	3
ENG 131 – 432 Journalism Practicum	1
ENG 141 – 432 Creative Arts Practicum	1
ENG 221 Introduction to Film	3
ENG 310 Media Issues	3
ENG 311 News Writing and Editing	3
ENG 312 Feature Writing and Production	3
ENG 315 Media Management	3
ENG 338 Rhetoric	3
ENG 433 Small Group Communication	3
ENG 461 Professional Writing	3
HON 213 Media and Violence	3
REL 216 Religion in Film	3
SSC 299 Digital Storytelling: An Academic and Community based Research Experience	3
THA 203 Video Production Workshop	3
THA 222 Voice and Diction	3
Total Hours Required	18

Music

Required Courses:

MUS 203 Harmony and Musicianship I	3
MUS 204 Harmony and Musicianship II	3

Choose 6 hours from the following:

MUS 480 Music Seminar	3
MUS 358* Baroque and Classical Periods	3
MUS 359* Romantic and Modern Period	3
MUS 426 Music for Children	3

*must include one of these courses

Performance Courses(choose 4 credits from the following):

MUS 111, 112, 211, 212, 311, 312, 411, 412 – Concert Choir	1 each
MUS 117, 118, 217, 218, 317, 318, 417, 418 – Collegiates	1 each
MUS 121, 122, 221, 222, 321, 322, 421, 422 – Handbell Ensemble	1 each
MUS 123, 124, 223, 224, 323, 324, 423, 424 – Jazz Combo	1 each

Lesson Courses: Choose 2 credits from the following:

MUS 143, 144 Piano Class I, II	1 each
MUS 153, 154 Voice Class I, II (a must for Musical Theatre minors)	1 each
MUS 151-452 Private Music Lessons	1 each
MUS 161-462 Applied Music Lessons	2 each
Total Hours Required (at least 9 at 300-400 level)	18

Musical Theatre

Required Courses:

THA 111 Fundamentals of Acting I	3
THA 100 Theatre Appreciation	3
MUS 102 Fundamentals of Music	3

Elective Performance Courses:(9 credits from the following)

MUS 111, 112, 211, 212, 311, 312, 411, 412 – Concert Choir	1 each
MUS 117, 118, 217, 218, 317, 318, 417, 418 – Collegiates	1 each
THA 320 Advanced Acting	4
MUS 480 Music Seminar	3
THA 446 Play Production II: Advanced Directing	3
MUS 358 Baroque and Classical Periods OR MUS 359 Romantic and Modern Periods	3
DAN 105 Fundamentals of Dance Styles	1
DAN 110 Beginning Dance for Performance	1
DAN 111 Intermediate Dance for Performance	1

Total Hours Required (at least 9 at 300-400 level) 18

Outdoor Recreation

Use of the natural environment is an integral part of the curriculum and is supported by the Ferrum Outdoors program. By providing opportunities for the student body to participate in adventure pursuits, Ferrum Outdoors affords the Outdoor Recreation minor the opportunity to develop, implement and evaluate programs while gaining valuable technical and leadership skills.

Required Courses:

*REC 260 Foundations of Recreation and Leisure	3
REC 325 Wilderness Leadership	3
REC 343 Facilitation of Adventure Pursuits	3
*REC 350 Risk Management, Safety, and Legal Issues in Recreation Administration	3

*REC 360 Recreation Leadership Theory and Philosophy	3
REC 361 Outdoor Education	3
Select 3 hours from the following:	
REC 103 Backpacking and Hiking or 105 Winter Camping	1
REC 104 Rock Climbing	1
REC 106 Outdoor Water Sports	1
REC 139 Orienteering	1

***Recreation Leadership majors: REC 260, 350 and 360 are included in the Major: Please select substitute courses from the list below:**

REC 329 Foundations of Adventure Based Counseling	3
REC 332 Camp Administration	3
REC 372 Eco-Adventure	3
REC 391 Cultural and Heritage Tourism	3
REC 475 Special Topics in Recreation & Leisure	3
BIO 311 Field Botany	3
GEO 221 GIS Geographic Information Systems	3
HHP 300 Responding to Emergencies	3
HHP 301 Emergency Response	3
ENG 211 Literature and the Environment	3
ESC 205 Tropical and Marine Ecology	4
ESC 206 Community Ecology of the SE	4
ESC 207 South African Ecology and Culture	3
ESC 208 Ireland's Natural History	4
ESC 302 Conservation Biology	3
ESC 313 Natural Resource Management	3

Total Hours Required 21

Philosophy

Required Methodology Courses

PHI 101 Logic	3
PHI 301 Fundamentals of Writing Philosophy	3

Choose 9 hours from the following:

PHI 221 Survey of Ancient and Medieval Philosophy	3
PHI 222 Survey of Modern Philosophy	3
PHI 321 19th Century Continental Philosophy	3
PHI 332 Phenomenology and Existentialism	3

Additional 300-400 level PHI course 3

Total Hours Required 18

Political Science

Required Courses

PSC 101 Introduction to American Government	3
PSC 203 International Relations OR PSC 205 Comparative Government	3
PSC 303 Political Theory from Socrates to Locke OR PSC 304 Modern Ideologies	3
PSC 399 Citizenship and Service Learning OR DJC 202 Practicing Democracy, Justice and Civic Engagement	3
Any Other Political Science courses except PSC 499 Internship (at the 300-400 level)	6

Total Hours Required 18

Psychology

Required Courses:

PSY 201 General Psychology	3
Additional from Psychology Major Course Listing (at least 9 at 300-400 level)	15

Total Hours Required 18

Recreation Leadership

Required Courses:

REC 260 Foundations of Recreation and Leisure	3
REC 341 Program Planning and Leadership	4
REC 350 Risk Management, Safety and Legal Issues in Recreation Admin.	3
REC 410 Recreation Administration	3

Select 6 credits from within Recreation Leadership Major, Outdoor Recreation Minor or Ecotourism Minor.

Total Hours Required 19

Religion

Required Courses:

REL 111* Literature of the Bible or	
REL 112 Literature of the Old Testament or	3
REL 113 Literature of the New Testament	
Other Religion courses (at least 6 hours from 300-400 level)	15

*Students who take REL 111 will not receive credit for REL 112 or REL 113.

Total Hours Required 18

Russian

12 Hours from the following:

RUS 301, 302 Advanced Russian	6
RUS 304 Russian Culture	3
RUS 305 Advanced Grammar	3
RUS 401, 402 Russian Literature	6
RUS 451, 452 Directed Study	6
RUS 499 Internship	3 - 9

Total Hours Required (above 200 level) 12

Russian Area Studies

Language (6 hours required):

RUS 101 and 102 OR 102 and 201 OR 201 and 202	6
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Literature (3 hours required):

RUS 401 Russian Literature of the 19th Century OR	3
RUS 402 Russian Literature of the 20th Century	3

History (6 hours required):

HIS 355 Russia Since 1917	3
HIS 357 The History of Russia	3

Choose 3 hours from the following:

RUS 304 Russian Culture	3
RUS 401 OR 402 (cannot be the same class used to fulfill the Literature requirement above)	3
RUS 451 Directed Study	3
RUS 499 Internship	3-9

Total Hours Required (above 200 level) 18

Social Work

Required Courses

SWK 201 Introduction to Social Work	3
ECO 202 Principles of Microeconomics or PSC 101 American National Government and Politics or PSC 202 State and Local Government	3
SOC 203 Cultural Diversity	3
SWK 320 Social Welfare: History, Philosophy and Current Policies	3

SWK 330 Human Behavior in the Social Environment	3
3 hours from the following:	
SWK 350 Substance Abuse	3
SWK 355 Child Welfare	3
SWK 329 Adventure Based Counseling	3
Total Hours Required	18

Sociology

Required Courses

SOC 101 General Sociology	3
SOC 202 Social Problems	3
12 hours (at least 9 at the 300 level or above) from the following	
SOC 204 Sociology of Sport	3
SOC 205 Marriage and the Family	3
SOC 206 Introduction to American Folk Studies	3
SOC 207 Sociology of Sex and Gender	3
SOC 303 Cultural Diversity Applications in Schools and Society	3
PSY 230 Social Psychology	3
HUM 300 The Holocaust: Past, Present, and Future (only if taken as SOC credit)	3
SOC 303 Cultural Diversity Applications in Schools and Society	3
SOC 310 Social Class and Inequality	3
SOC 320 Deviance and Social Control	3
SOC 330 Organization and Behavior	3
SOC 333 Population Dynamics	3
SOC 340 Collective Behavior and Social Movements	3
SOC 391 Directed Study in Applied Sociology	3
SOC 392 Eco-Social Justice: Issues and Applications	3
SOC 450 Changing Roles in the Life Course	3
SOC 470 Social Sciences Research	3
Total Hours Required	18

Spanish

12 hours from the following:

SPA 301 Advanced Spanish	6
SPA 302 Advanced Speaking and Comprehension	3
SPA 320 Introduction to Literature in Spanish	3

SPA 325 Spanish Culture	3
SPA 326 Latin American Culture	3
SPA 351, 352 Conversation Circle I, II	2
SPA 403 Latin American and Spanish Short Story (Taught in Spanish)	3
SPA 404 Selected Topics in Hispanic Literature (Taught in Spanish)	3
SPA 411 Professional Spanish	3
SPA 451, 452 Directed Study	6
Total 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 Registrar's Office, paying a fee, and returning his/her application to the Registrar at Ferrum College.

Ferrum'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:
 - all students can be reached and all students can learn;
 - global and multicultural agendas should be woven into the curriculum;
 - student choice and empowerment are essential;
 - 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. Course work 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 & 102
 - MTH 105 (or higher)
 - PSY 201, 211 & 291(if required)
 - and the chosen lab science(s)

A plan for Teacher Education Program (EDU) candidate course work 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 302 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 302 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 310/311(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 352/353 (fall) for elementary – requires students take Praxis II (elementary)
- EDU 355/357 (fall) for secondary – requires students take Praxis II (content area)
- EDU 358/360 (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 402 and EDU 403. Requirements for admission into EDU 402 and EDU 403: 2.8 GPA in major; 3.0 GPA in Teacher Education Minor; 2.5 GPA overall; and passed all testing requirements.

- EDU 402 upon successful completion this course meets the experiential component requirement for all majors; must be taken in conjunction with EDU 403.
- EDU 403 upon successful completion this course meets the experiential component requirement for all majors; must be taken in conjunction with EDU 402.

Continuation in Program:

Program candidates MUST maintain a “C” or better in each of the Liberal Core 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 302. 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 & 102, MTH 105, BIO 105, PSY 201, 211 & 291, EDU 320 to satisfy the required Liberal Arts Core 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 & 102
 - MTH 105 (or higher by formal request to the Director of Teacher Education)
 - PSY 201 and 211
 - and the chosen lab science(s)

Major	Endorsement for Licensure
Agricultural Sciences	Agriculture Education
Art – Studio Arts	Art
Pre-Professional Science	Biology & Chemistry*

Biology	Biology
General Business	Career & Technical Education - Business Education
Chemistry	Chemistry
Computer Information Systems	Career & Technical Education - Computer Science
English	English
	Journalism minor (add on)
Theatre Arts	Theatre Arts
Mathematical Sciences	Mathematics
	Algebra I (add on)
Russian	
Social Studies (History, Government, Economics, Psychology)	Social Studies
Spanish	Spanish

*Pre-Professional Science requires a dual endorsement licensure in Biology and Chemistry with the requirements listed below

Biology	Chemistry
BIO 111, 201, 202, 305, 330	CHM 101, 105, or 103, 104
BIO 254 or 303 or ESC 203	CHM 301, 302, 341
	CHM 315 or 412
	CHM 342 or 305

Program candidates interested in Art, Theatre Arts, Physical Education/Health, Russian or Spanish are considered ALL-LEVEL (PK-12). ALL-LEVEL Candidates must:

- successfully complete the following courses with a "C" or higher:
 - ENG 101 & 102
 - MTH 105 (or higher by formal request to the Director of Teacher Education)
 - PSY 201, 211 and 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/application.pdf>

- 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 402 – The Profession of Teaching: Student Teaching Field Experience and EDU 403 - The Profession of Teaching: Student Teaching Synthesis.
- 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

(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
THA 246 Play Production I or 202 Stage Craft	3
THA 301 World Theatre or THA 302 World Theatre	3

Choose 12 hours from following electives

THA 112 Fundamentals of Acting II	3
THA 222 Voice and Diction	3
THA 281-288 Academic Theatre Practicum (only 1 practicum credit can be used toward the minor)	1
THA 300 Auditions and Makeup	3
THA 320 Advanced Acting and Performance Theory	3
THA 336 Creative Dramatics in School, Church, and Community	3
THA 346 Readers Theatre	3
THA 412, 413, 414 Special Topics	1-3 each
THA 446 Play Production II: Advanced Directing	1

Total Hours Required (at least 9 at the 300-400 level) 18

Description of Courses

ACC	<u>Accounting</u>
AGS	<u>Agriculture Sciences</u>
AGY	<u>Agromony</u>
ASI	<u>Animal Science</u>
ART	<u>Art</u>
BIO	<u>Biology</u>
BUS	<u>Business</u>
CHM	<u>Chemistry</u>
CSK	<u>College Skills</u>
COM	<u>Communications</u>
CSC	<u>Computer Information Systems</u>
CJU	<u>Criminal Justice</u>
DAN	<u>Dance</u>
DJC	<u>Democracy, Justice and Civic Engagement</u>
ECO	<u>Economics</u>
ECT	<u>Ecotourism</u>
EDU	<u>Education</u>
ENG	<u>English</u>
EPD	<u>Environmental Planning and Development</u>
ESC	<u>Environmental Science</u>
GWS	<u>Ferrum Gateway Seminar</u>
LAN	<u>Foreign Languages</u>
FRE	<u>French</u>
GEO	<u>Geography</u>
HHP	<u>Health and Human Performance</u>
HSC	<u>Health Sciences</u>
HIS	<u>History</u>
HON	<u>Honors</u>
HOR	<u>Horticulture</u>
HUM	<u>Humanities</u>
IST	<u>International Studies</u>
MTH	<u>Mathematics</u>

MUS	<u>Music</u>
NSM	<u>Natural Science and Mathematics</u>
PHI	<u>Philosophy</u>
PHY	<u>Physics</u>
PSC	<u>Political Science</u>
PSY	<u>Psychology</u>
REC	<u>Recreation Leadership</u>
REL	<u>Religion</u>
RUS	<u>Russian</u>
SCI	<u>Topics in Science</u>
SSC	<u>Social Science</u>
SST	<u>Social Studies</u>
SWK	<u>Social Work</u>
SOC	<u>Sociology</u>
SPA	<u>Spanish</u>
SPD	<u>Special Education</u>
SAB	<u>Study Abroad</u>
THA	<u>Theatre Arts</u>

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)

201 Principles of Accounting I

Basic theory, concepts and methodology of accounting. Valuation and income determination, internal control systems and basic financial statement preparation.

Three hours, three credits.

202 Principles of Accounting II

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.

Prerequisite: ACC 201 with a grade of "C" or higher.

Three hours, three credits.

290, 390, 490 Accounting Practicum

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 paper. This course may be repeated up to three times, for a total of three credit hours, if the student repeats the same recurring projects, such as VITA. Students involved in different projects may receive up to a total of six-credit-hours.

Prerequisite: ACC 290 is a prerequisite for ACC 390; ACC 390 is a prerequisite for ACC 490.

One credit.

301 Managerial Accounting

Concepts of cost and managerial accounting. Emphasis on preparation, interpretation, and analysis of accounting and financial data for planning and control, including performance evaluation.

Prerequisite: ACC 202. (Offered Fall only)

Three hours, three credits.

302, 303 Intermediate Accounting I & II

Analysis of the theory, concepts, principles, and procedures underlying the preparation of financial statements for external reporting.

Prerequisite: ACC 202 with a grade of "C" or higher.

Three hours, three credits each.

304 Advanced Accounting Theory

A study of consolidated financial accounting statements, and problems that arise in the application of these accounting entities including formation, consolidation, liquidation of businesses. Also accounting for public institutions.

Prerequisite: ACC 302.

Three hours, three credits.

306 Government and Nonprofit Accounting

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.

Prerequisite: ACC 202.

Three hours, three credits.

401 Advanced Studies in Cost Accounting

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.

Prerequisite: ACC 301.

Three hours, three credits.

403 Auditing

Auditing procedures through the application of auditing principles; standards and audit reports.

Prerequisite: ACC 202.

Three hours, three credits.

405 Taxation

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.

Prerequisite: ACC 202.

Three hours, three credits.

407 International Accounting

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.

Prerequisite: ACC 202.

Three hours, three credits.

408 Accounting Software Applications

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.

Prerequisites: BUS 230, ACC 202.

Three hours, three credits.

499 Accounting Internship

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.

Prerequisites: Junior or Senior standing, completion of ACC 303, and a 2.25 minimum grade-point average.

Three hours, three credits.

Agricultural Sciences (AGS)

110 Agriculture Issues

Introduces the discipline of agriculture by exploring problems, issues, and philosophies of its practice through history and around the world.

Three hours, three credits.

180, 181, 280, 281, 380, 381, 480, 481 Practicum

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.

Prerequisite: AGS 110. Pass/Fail

Forty-five service hours, one credit.

190, 290, 390, 490 Special Topics

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.

One to four hours credit.

195, 196, 295, 296, 395, 396, 495, 496 Independent Research

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.

Prerequisites: Prerequisite coursework and skills determined by individual instructors.

One to three credits.

218 Regional Experiences in Agriculture

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.

Six hours, four credits.

314 Animal and Plant Breeding and Genetics

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.

Prerequisites: ASI 201 and BIO 202.

Six hours, four credits.

417 Farm Business Management

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.

Five hours, three credits.

Agronomy (AGY)

180, 181, 280, 281, 380, 381, 480, 481 Practicum

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.

Prerequisite: AGS 110. Pass/Fail

Forty-five service hours, one credit.

190, 290, 390, 490 Special Topics

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.

One to four hours credit.

195, 196, 295, 296, 395, 396, 495, 496 Independent Research

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.

Prerequisites: ASI 201 and BIO 202.

One to three credits.

301 Principles of Field and Forage Crop Production

Considers the importance of agronomy 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.

Prerequisite: BIO 202.

Six hours, four credits.

315 Soil Science and Management

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.

Prerequisites: BIO 111 and CHM 101 or 103.

Six hours, four credits.

Animal Science (ASI)

150, 151, 152, 153 Fitting and Showing

Allows students hands-on experience with livestock by training in practices associated with livestock fitting and showing, the art of animal display.

Two hours, one credit.

180, 181, 280, 281, 380, 381, 480, 481 Practicum

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.

Prerequisite: AGS 110. Pass/Fail

Forty-five service hours, one credit.

190, 290, 390, 490 Special Topics

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.

One to four hours credit.

201 Introduction to Animal Science

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.

Five hours, four credits.

232 Livestock Evaluation and Judging

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.

Five hours, three credits.

302 Animal Nutrition

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.

Prerequisites: BIO 111 and, any 200 (or higher) level science course.

Six hours, four credits.

316 Domestic Animal Anatomy and Physiology

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.

Prerequisites: BIO 111, and any 200 (or higher) level science course.

Six hours, four credits.

414 Domestic Animal Reproduction

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.

Prerequisites: BIO 111 and any 200 (or higher) level science course.

Six hours, four credits.

495, 496 Independent Research

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.

Prerequisites: ASI 201 and BIO 202.

One to three credits.

Art (ART)

100 Introducing Art and Artists

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.

Three hours, three credits.

101 Two Dimensional Design

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.

Studio fee required.

Six hours, three credits.

102 Three Dimensional Design

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.

Studio fee required.

Six hours, three credits.

104 Drawing Fundamentals

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.

Studio fee required.

Six hours, three credits.

105 The Color Course

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.

Studio fee required.

Six hours, three credits.

201 Basic Computer Graphics

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. Studio fee required.

Six hours, three credits.

204 Intermediate Drawing

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.

Studio fee required.

Prerequisite: ART 104.

Six hours, three credits.

206 Introduction to Ceramics

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.

Studio fee required.

Six hours, three credits.

209 Illustration

Students are introduced to the descriptive qualities of image-making including drawing, painting and collage to emphasize subject more than form. The aim of an illustration is to elucidate, emphasize, amplify or decorate textual information (such as a narrative or story) by providing a visual representation. Techniques include graphite, colored pencils, collage, acrylic and watercolor.

Studio fee required.

Prerequisite: ART 101 or 104.

Six hours, three credits.

212 The Painting Studio

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.

Studio fee required.

Prerequisite: ART 101 or 104.

Six hours, three credits.

215 Digital Photography

The course is an introduction to the digital camera utilizing the computer as the darkroom. There will be an emphasis on image control and manipulation using graphic software. A Digital Camera (well beyond a cell phone) along with prior knowledge of computer basics and digital imaging software is required.

Studio fee required.

Six hours, three credits.

217 Black & White Photography

A studio course designed primarily as an introduction to film photography with attention to

technical aspects including exposure settings, cameras, film, and 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, and other required supplies.
Studio fee required.

Six hours, three credits.

220 Introduction to Museum Studies

(see HIS 220)

Three hours, three credits.

232 Web Design X

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.

Prerequisite: ART 201.

Six hours, three credits.

304 Advanced Drawing

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.

Studio fee required.

Prerequisite: ART 204.

Six hours, three credits.

306 Intermediate Ceramics

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.

Studio fee required.

Prerequisite: Art 206.

Six hours, three credits.

311 Drawing Heads, Hands & Feet

This drawing course introduces a foundation of understanding of drawing portraits and specific 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 head, hands and feet, techniques of description and rendering textures in portraiture.

Studio fee required.

Prerequisite: ART 104.

Six hours, three credits.

312 Intermediate Painting

The 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.

Studio fee required.

Prerequisite: ART 212.

Six hours, three credits.

317 Intermediate Photography

Designed for photographers who wish to expand their knowledge of black and white processing and 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 personal 35mm camera, film and photosensitive paper.

Studio fee required.

Prerequisite: ART 217.

Six hours, three credits.

318 Introduction to Sculpture

This studio course is an in-depth introduction of three-dimensional form and sculptural concepts. Students are exposed to various related materials, techniques, and processes including the development of concepts with critical thinking and problem-solving skills.

Studio fee required.

Prerequisite: ART 102.

Six hours, three credits.

320 Ancient Through Medieval Art in History

This is an art history survey of western art including periods of Pre-historic/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.

Three hours, three credits.

321 Renaissance to Impressionist Art in History

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.

Three hours, three credits.

322 Graphic Design: Print Media

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.

Studio fee required.

Prerequisite: ART 201.

Six hours, three credits.

324 Art for Children

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.

Studio fee required.

Prerequisite: ART 100.

Four hours, three credits.

325 Modern Art and the Twentieth Century

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.

Three hours, three credits.

328 Intermediate Sculpture

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.

Studio fee required.

Prerequisite: ART 318.

Six hours, three credits.

332 Graphic Design: Typography & Logo Systems

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.

Studio fee required.

Prerequisite: ART 201.

Six hours, three credits.

406 Advanced Ceramics

Studio practice in forming, firing and glazing sculptural ceramics and pottery. Individual instruction is emphasized and individual interpretations are encouraged.

Studio fee required.

Prerequisite: Art 306.

Six hours, three credits.

412 Advanced Painting

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.

Studio fee required.

Prerequisite: ART 312.

Six hours, three credits.

423 Advanced Sculpture

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.

Studio fee required.

Prerequisite: ART 328.

Six hours, three credits.

450 Directed Study in Advanced Studio Problems

A course to provide students with the opportunity to explore individually assigned research concentrating on personal development in a selected studio area.

Studio fee required.

Prerequisite: Completion of appropriate lower-level courses and permission of the instructor..

Six hours, three credits.

497 The Senior Studio

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.

Studio fee required.

Prerequisite: Completion of appropriate lower-level courses and permission of the instructor.

Six hours, three credits.

498 The Senior Exhibition

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.

Studio fee required.

Prerequisite: ART 497.

Six hours, three credits.

499 Internship

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 pre-

professional 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.

240 hours, three credits.

Biology (BIO)

105 Introduction to Biology

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.

Five hours, four credits.

111 General Biology I

Emphasis in this course will be on the fundamental principles of biology, cell structure, and functions, cell energetics, genetics, and evolution.

Six hours, four credits.

112 General Biology II

A survey of the diversity of living organisms, human biology, and ecology.

Five hours, four credits.

123 Entomology: Insects and Society

This course is a focused study of the biology, ecology, and diversity of insects.

Six hours, four credits.

180, 181, 280, 281, 380, 381, 480, 481 Practicum

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

Forty-five service hours, one credit.

190, 290, 390, 490 Special Topics

A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule.

Prerequisites: Depends on specific offering.

One to four credits.

195, 196, 295, 296, 395, 396, 495, 496 Independent Research

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.

Prerequisites: Prerequisite coursework and skills determined by individual instructors.

One to three credits.

201 Vertebrate Zoology

An introductory survey of the evolutionary relationships, anatomy, physiology, histology, and development of vertebrate animals.

Prerequisite: BIO 111.

Five hours, four credits.

202 Introduction to Plant Science

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.

Prerequisite: BIO 111.

Five hours, four credits.

230 Introduction to Cell and Molecular Biology

An introduction to cellular and molecular biology with a focus on cell division, DNA replication, transcription, and translation.

Prerequisites: BIO 111

Three hours, three credits.

254 Human Anatomy and Physiology I

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.

Prerequisite BIO 111.

Six hours, four credits.

255 Human Anatomy and Physiology II

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.

Prerequisite: BIO 254.

Six hours, four credits.

301 Invertebrate Zoology

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.

Prerequisite: BIO 111.

Six hours, four credits.

303 Microbiology

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.

Prerequisite: BIO 111.

Six hours, four credits.

305 Introductory Genetics

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.

Prerequisite: BIO 230.

Six hours, four credits.

306 Nonvascular Plants and Fungi

A systematic survey of the structure, function, and natural history of the divisions and classes of plants without a vascular system.

Prerequisite: BIO 111.

Six hours, four credits.

311 Field Botany

Deals with the study of plants in natural environments, including plant identification, collection, preservation, and basic ecological relationships.

Prerequisite: BIO 111.

Six hours, four credits.

315 Animal Behavior

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.

Prerequisite: BIO 111.

Three hours, three credits.

320 Human Nutrition

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.

Prerequisite: BIO 111.

Three hours, three credits.

330 Cell Biology

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.

Prerequisite: BIO 230 and one of the following: CHM 101, 103 or 105.

Six hours, four credits.

390, 490 Selected Topics in Biology

Specifically designed for biology majors to be able to design an independent study class in a specialized field that is not normally in the schedule.

One to four credits.

405 Biotechnology

This course examines the techniques and applications of molecular biology including biochemical and molecular aspects of gene function, gene and protein regulation and DNA recombination. Ethical and social controversies will also be discussed.

Prerequisites: One of the following: BIO 303, BIO 305, BIO 330 or HOR 415.

Six hours, four credits.

410 Immunology

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.

Prerequisites: BIO 303.

Three hours, three credits.

413 Animal Diseases

Focuses on etiology, symptoms, prevention, and treatment of diseases of common domestic animals, developing principles of safe, effective control and protection.

Prerequisite: BIO 111 and Junior or Senior Standing.

Three hours, three credits.

419 Plant Physiology and Biotechnology

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.

Prerequisites: BIO 202 and CHM 105 or 301.

Six hours, four credits.

Business (BUS)

151 Business Enterprises

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. This course cannot receive credit within the Business Administration or Accounting major or minor, but will count toward the total hours needed for graduation.

Three hours, three credits.

190, 290, 390 Free Enterprise Strategies and Implementation

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 may be repeated for up to three credits, and is offered on a Pass/Fail basis.

One credit.

201 Personal Finance

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.

Three hours, three credits.

206 Business Systems I

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.

Three hours, three credits.

207 Selected Topics in Business

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.

Three hours, three credits.

230 Computer Applications

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.

Three hours, three credits.

250 Introduction to the Business and Economics of Sports

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.

Three hours, three credits.

271 Fundamentals of Applied Research

This course provides the knowledge-base needed to understand and apply research methods to both discipline-based and consumer studies. It includes college mathematics, an introduction to research methods as relates to "real world situations," interpreting formal and media-based studies, and a project applying these research methods. SPSS and Excel are used for data generation and analysis.

Prerequisite: Sophomore standing.

Three hours, three credits.

291, 292, 391, 392, 491, 492 Service Learning Experiences in Business Administration

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.

302 Records Management

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.

Three hours, three credits.

303 Principles of Management

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.

Prerequisite: Junior standing.

Three hours, three credits.

304 Advertising

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.

Prerequisite: ECO 202.

Three hours, three credits.

305 Sales Management

A blend of principles and practices. It combines general information about careers and sales and sales management, procedures and techniques of personal selling, and considerations involved in establishing and managing a sales force.

Prerequisite: ECO 202.

Three hours, three credits.

306 Consumer Behavior

Seeks to acquaint students with the challenges of understanding, analyzing, and implementing consumer behavior, as it pertains to marketing, sales, and to communications in a regional, national, and international setting.

Prerequisite: ECO 202.

Three hours, three credits.

308 Business Communications

Stresses nonverbal and verbal communications for business. Emphasis is placed on business letter and report writing and oral communications.

Prerequisite: ENG 102.

Three hours, three credits

311 Marketing

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.

Prerequisites: ECO 202.

Three hours, three credits.

313 Business Finance

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.

Prerequisite: ACC 202 and ECO 202.

Three hours, three credits.

314 Advanced Corporate Finance

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.

Prerequisite: BUS 313.

Three hours, three credits.

315 Business Law

Emphasis on legal organization, law of contract, and agency.

Prerequisite: Junior standing.

Three hours, three credits.

316 Retail Management

A study of the principles and methods of retailing. Emphasis is on managerial control and on developing and executing retail strategy.

Prerequisite: ECO 202.

Three hours, three credits.

318 Introduction to Electronic Commerce

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.
Prerequisites: ECO 202 and CSC 100 or BUS 230 or equivalent.
Three hours, three credits.

320 Entrepreneurship

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.
Prerequisites: ACC 201 and ECO 202.
Three hours, three credits.

325 Advanced Computer Applications

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.
Prerequisite: BUS 230.
Three hours, three credits.

330 Quantitative Methods: Management Science

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.
Prerequisite: ECO 202 and MTH 111.
Three hours, three credits.

331 Production/Operations Management

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.
Prerequisite: MTH 111.
Three hours, three credits.

395 Directed Study

Based on project developed by student in consultation with the faculty member(s).
One to three credits.

403 Human Resources Management

An introduction to personnel administration including selection and training of personnel, communication, wage administration, motivation, conflict resolution, and labor legislation. 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: Junior status and ENG 102 with a “C” or better.

Three hours, three credits.

410 Marketing Research

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 the course have completed MTH 208, Introductory Statistics with Business Applications.

Prerequisite: BUS 311.

Three hours, three credits.

418 Investments

A study of the securities markets and the characteristics of various types of securities for institutional and personal investment. Sources of investment information, approaches to investing, personal investment planning, and elements of analysis are introduced.

Prerequisite: BUS 313.

Three hours, three credits.

420 International Business

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.

Prerequisite: ECO 202.

Three hours, three credits.

430 Management Information Systems

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.

Prerequisite: BUS 325.

Three hours, three credits.

492, 493 Global Competitiveness Practicum I & II

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.

Prerequisite for BUS 493: BUS 492.

Three hours, three credits each.

498 Senior Seminar: Business Policy

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.

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.

Prerequisites: BUS 311, BUS 313, Senior standing and ENG 102 with a grade of "C" or higher.

Three hours, three credits.

499 Internship

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.

Prerequisites: BUS 308. 2.00 GPA in the major.

Three credits.

Chemistry (CHM)

101 Fundamentals of Inorganic Chemistry

An introduction to the structural and functional relationships of matter and energy at the molecular level emphasizing atomic structure, bonding, chemical periodicity, stoichiometry, reaction rates and equilibria, the states of matter, and acid and base behavior and including laboratory experience.

Prerequisite: A grade of "C" or higher in MTH 100 or High School Algebra I and II.

Six hours, four credits.

103, 104 General Chemistry

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.

Prerequisite: A grade of "C" or higher in MTH 100 or High School Algebra I and II. Additional prerequisite for 104: CHM 103.

Six hours, four credits each.

105 Introduction to Organic and Biochemistry

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.

Prerequisites: CHM 101 or CHM 103, or a "C" or higher in High School Chemistry.

Six hours, four credits.

180, 181, 280, 281, 380, 381, 480, 481 Practicum

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.

Forty-five service hours, one credit.

190, 290, 390, 490 Special Topics

A course that allows the chemistry faculty, in response to student interest, to offer a class not normally in the schedule.

Prerequisite: permission of the instructor.

One to four credits.

195, 196, 295, 296, 395, 396, 495, 496 Independent Research

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.

Prerequisites: Prerequisite coursework and skills determined by individual instructors.

One to three credits.

301, 302 Organic Chemistry

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.

Prerequisite for CHM 301: CHM 103 and 104 or CHM 101 and 105. Prerequisite for 302: CHM 301.

Six hours, four credits each.

305 Analytical Chemistry

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.

Prerequisite: CHM 103 and 104 or CHM 101 and 105.

Seven hours, four credits.

315 Biochemistry

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.

Prerequisite: CHM 105 or 301.

Seven hours, four credits.

331 Forensic Science

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.

Prerequisites: CJU 335 and CHM 105 or 301.

Six hours, four credits.

341 Physical Chemistry

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 behavior of matter, chemical equilibrium, chemical structure and dynamics, chemical kinetics, and spectroscopy.

Prerequisites: CHM 104 and MTH 111 or 112.

Three hours, three credits.

342 Physical Chemistry II

A continued study of physical chemistry for advanced students. Physical chemistry is the analysis and modeling of physical aspects of chemical systems. Topics covered will include electrochemistry, quantum mechanics, statistical thermodynamics, advanced chemical kinetics, and surface phenomena.

Prerequisites: CHM 341 and MTH 203 or 212.

Three hours, three credits.

405 Advanced Chemistry Laboratory

This 3-week, 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.

Prerequisites: CHM 301 and CHM 341.

Six hours, two credits.

412 Environmental Chemistry

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.

Prerequisite: CHM 103 and 104 or CHM 101 and 105.

Three hours, three credits.

425 Inorganic Chemistry

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.

Prerequisites: CHM 104 and 105 or 301.

Six hours, four credits.

College Skills (CSK)

092 College Skills

Students on academic warning are 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. *Pass/Fail. One hour, credit not for graduation*

096 College Skills

Students on academic probation are required to register and attend a College Skills class as stated in the college catalog. Academic probation usually indicates that the student had not been able to achieve good standing or has dropped below hours or GPA required after being on academic warning. As in CSK 092, students will work with multiple academic resources and will also analyze behaviors, academic strategies, and/or academic issues that placed the student on 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.

Communications (COM)

101 Introduction to Mass Communication

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.

Three hours, three credits.

141, 241, Radio Performance Practicum/Seminar

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.

One hour, one credit each.

201 Public Speaking

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. 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: ENG 102.

Three hours, three credits.

211 Radio Broadcasting Methods

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.

Three hours, three credits.

223 Basic Audio Recording

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.

Three hours, three credits.

235 Fundamental of TV and Video Production

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.

Three hours, three credits.

236, 237, 336, 337, 436, 437 Video Production Practicum

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. Students may repeat for up to six credits, with program coordinator approval.

Prerequisite: COM 235.

One credit.

271 Online Media

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.

Prerequisites: ENG 102 with a "C" or higher

Three hours, three credits.

304 Communication Research

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.

Prerequisites: COM 101 and ENG 102 with a "C" or higher.

Three hours, three credits.

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.

Prerequisites: ART 215 or ART 217 with a "C" or higher.

Three hours, three credits.

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.

Prerequisites: ENG 102 and PSY 201 with a "C" or higher.

Three hours, three credits.

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. 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: ENG 102 with a "C" or higher.

Three hours, three credits.

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. 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.

Prerequisites: ENG 102, COM 101, COM 304, COM 369 with a "C" or higher in each class.

Three hours, three credits.

499 Internship

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.

Prerequisites: Junior Standing, program coordinator approval.

Three credits.

Computer Information Systems (CSC)

100 Computer Literacy

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 Mathematical Sciences. 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.

Three hours, three credits.

101 Introduction to Computers and Computer Information Systems

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.

Three hours, three credits.

102 Computer Hardware/Troubleshooting

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.

Three hours, three credits.

145 Social Networking Best Practices

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, 101 or BUS-230 recommended before taking CSC-145.

Three hours, three credits.

180, 280, 380, 480 Computer Science Practicum

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. May be repeated for up to three credits.

One credit.

225 Introduction to Visual Basic

An introduction to a graphical environment using Visual Basic. Visual Basic is an event-driven and object-oriented language leading to user-friendly applications in a Windows environment. Students will produce windowed applications with menus, control buttons, multiple screens, pull-down lists, and external files.

Prerequisites: CSC 101 and either CSC 100 or BUS 230.

Five hours, four credits.

229 Programming Concepts and Algorithm Design

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.

Prerequisites: MTH-100 or higher and one of the following: CSC 100, CSC 101 or BUS 230.

Three hours, three credits.

230 Web Design

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.

Prerequisites: any CSC 100 level or higher or BUS 230.

Three hours, three credits.

235 Programming for Portable Devices

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.

Prerequisites: CSC-229 and one of the following: CSC 100, CSC 101 or BUS 230.

Three hours, three credits.

242 Computer Networking

This course is intended to introduce the student to the terminology, theory, applications, and problems involved in the area of computer networking. 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.

Prerequisites: CSC 101 and either CSC 100 or BUS 230.

Three hours, three credits.

290, 390, 490 Selected Topics in Computer Science

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 faculty or by other professionals. Credit hours vary depending on course topic.

One to three hours, one to three credits.

291, 391, 491 Competitive Computer Programming

As many mundane programming jobs move overseas the competition for the top programming jobs is increasing. Also increasing is participation in international programming contests. There are now two large, well-recognized international contests and a busy website devoted only to contest programming. Individuals who do well in these contests have a major competitive advantage landing the best and highest paying jobs. This course covers special topics and techniques for successfully competing in these contests. Students who do well in this course are usually selected to be on Ferrum's Association for Computer Machinery (ACM) Programming Contest Team that competes in the Mid-Atlantic Regional contest that is typically held in November. After the ACM team contest the course will focus on preparation for individual competition on the commercial contest site, TopCoder.

Computer Science students are encouraged to take this course in the Fall as sophomores, juniors, and seniors under successive course numbers and to compete each year in the contest. The course will meet twice a week. One period is spent in discussing special topics and techniques, the other period is spent solving problems in a simulated contest environment. Additional practice periods are required for those that wish to be part of the Ferrum ACM contest team. The problems assigned to juniors are harder than those assigned to sophomores and similarly for seniors. Part of the course grade depends on having problem solutions accepted by an on-line judge. The course involves a considerable academic effort for each student, a weekly classroom meeting and a laboratory throughout the semester.

Prerequisite: CSC 320 or equivalent ability to solve programming problems using C++.

Three hours, two credits.

310 Java Programming

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.

Prerequisite: CSC 225 or 320.

Three hours, three credits.

312 Computer Organization

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.

Prerequisite: CSC 225 or 320.

Three hours, three credits.

320 Programming Using C++

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.

Prerequisites: CSC 101 and either CSC 100 or BUS 230.

Three hours, three credits.

321 Data Structures

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.

Prerequisite: CSC 320.

Three hours, three credits.

325 Advanced Computer Applications

(see BUS 325)

Three hours, three credits.

340 Visual Basic for Applications

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.

Prerequisites: CSC 225.

Three hours, three credits.

342 Networking II - Administration and TCP/IP

The course is the second course in a sequence of three networking courses. Understanding how to administer a network is a vital element in preparing for a career in the field of networking. Topics covered in this course include setting up and configuring a Microsoft Windows server, managing users and user groups, granting rights and privileges, configuring and managing network resources, managing day-to-day traffic issues, back up methods for servers, tcp/ip protocol, allocating ip addresses, and subnetting a network using a bank of ip addresses. Students will be researching the Internet as well as following technical instruction manuals in order to complete hands on assignments.

Prerequisite: CSC 242.

Three hours, three credits.

350 Operating Systems

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.

Prerequisites: CSC 102.

Three hours, three credits.

401 Database Theory

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.

Prerequisite: BUS 325.

Three hours, three credits.

410 Windows Programming

This course is an introduction to the use of the Visual C++ language for Windows programming. Visual C++ allows a programmer to create a C++ application program with user interfaces that resemble and conform to the Windows environment.

Prerequisite: CSC 321.

Three hours, three credits.

435 Information Assurance and Cybersecurity

This course prepares students to appreciate the true scope and depth of the issues involved in implementing a practical cybersecurity process, and provides a comprehensive, trustworthy framework of practices for assuring information. 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.

Prerequisite: Junior standing.

Three hours, three credits.

442 Networking III - Hardware/Router Configuration

The course is the third course in a sequence of three networking courses. Installation and configuration of hardware is one of the most important aspects of networking. Students in this course will learn to evaluate, install, and configure commonly used hardware on today's networks. Hardware studied included: network interface cards, hubs, routers, and switches. a large portion of the course will be devoted to router and switch configuration. Network security will be covered including types of network security attacks and methods for securing the network. In-class instruction, hands-on labs, researching the Internet as well as following technical instruction manuals will all be used.

Prerequisite: CSC 342.

Three hours, three credits.

444 Computer Game Development

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.

Prerequisites: CSC 410 or equivalent experience and MTH 211 and 311.

Three hours, three credits.

455 Systems Analysis and Design

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 real world problem solving situations. Both structured systems development method 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.

Prerequisites: MTH 208 and any programming language course such as CSC-310, 320 or 340.

Three hours, three credits.

498 Senior Research Seminar in Computer Information Systems

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.

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: Senior standing with a major in Computer Science.

Three hours, three credits.

499 Internship

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.

Three to nine credits.

Criminal Justice (CJU)

201 Introduction to Criminal Justice

An introduction to the philosophy and history of criminal justice, the development and operation of criminal justice agencies in the United States.

Three hours, three credits.

204 Fundamentals of Corrections

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.

Three hours, three credits.

220 Criminal Law

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.

Prerequisite: CJU 201.

Three hours, three credits.

250 Friction Ridge Analysis

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.

Three hours, three credits.

300 Dilemmas and Decision Making in Criminal Justice

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.

Three hours, three credits.

310 Victimology

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.

Three hours, three credits.

314 Courts and the Judicial Process

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.

Prerequisite: CJU 220.

Three hours, three credits.

315 Constitutional Law for Criminal Justice Professionals

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.

Prerequisites: CJU 201, 220 and PSC 101

Three hours, three credits.

320 Deviance and Social Control

(see SOC 320)

Three hours, three credits.

330 Criminal Investigation

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.

Prerequisite: CJU 201.

Three hours, three credits.

335 Introduction to Forensic Investigations

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.

Prerequisite: BIO 111, CHM 101 or 103.

Three hours, three credits.

340 Interviewing and Crisis Intervention

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.

Prerequisite: CJU 201.

Three hours, three credits.

350 Crime and Delinquency Prevention

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.

Prerequisite: CJU 201.

Three hours, three credits.

360 Police Operations

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.

Prerequisite: CJU 201.

Three hours, three credits.

361 Criminal Justice Administration and Leadership

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.

Prerequisite: CJU 201.

Three hours, three credits.

375 Crime Scene Photography

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.

Three hours, three credits.

404 Juvenile Justice System

Provides students with insights into the juvenile justice field with emphasis on corrective measures.

Three hours, three credits.

406 Probation, Parole, and Community Corrections

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.

Thirty-eight contact hours, three credits.

408 Rural Criminal Justice Issues

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.

Prerequisite: CJU 201.

Three hours, three credits.

430 Specialized Investigations

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.

Prerequisite: CJU 330.

Three hours, three credits.

460 Criminal Profiling

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.

Prerequisites: CJU 201 and CJU 330 or CJU 430.

Three hours, three credits.

475 Directed Research

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.

Prerequisites: SOC 470 or SSC 251.

Variable hours, three credits.

497 Special Topics

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.

Prerequisite: Permission of the Criminal Justice Program Coordinator.

Three hours, three credits.

498 Seminar

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.

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: Senior standing. 2.5 GPA in the major.

Three hours, three credits.

499 Internship

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.

Prerequisite: Senior standing.

Three credits.

Dance (DAN)

105 Fundamentals of Dance Styles

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

106 Fundamentals of Dance Styles

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

110 Beginning Dance for Performance

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

111 Beginning Dance for Performance

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

121 Rhythm with the Feet

This course introduces the history and steps from Irish and Appalachian dances. It considers the influences of these traditions on American tap. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

122, 123, 222, 223, 322, 323, 422, 423 Private Dance Lessons

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.

One hour, one credit.

Democracy, Justice and Civic Engagement (DJC)

201 Understanding Democracy, Justice and Civic Engagement

Students will be introduced to core concepts and political and sociological theories of democracy, justice, and civic engagement.

Three hours, three credits.

202 Practicing Democracy, Justice and Civic Engagement

This interdisciplinary course will build on the theoretical and philosophical concepts and questions derived from DJC 201 with particular references to the local, national and international contexts of democracy, justice and civic engagement. Some emphasis will also be placed on the relationship between theory and experience through individualized and group-oriented projects.

Three hours, three credits.

350 Synthesizing Democracy, Justice, and Civic Engagement

This course will serve a similar function as a capstone course for the major, even though it will occur during the junior year. By this point, students will have spent their freshman, sophomore and junior years taking a wide variety of courses within the major. This course gives students the ability to tie together these divergent themes and courses and locate the common elements of democracy, justice, and civic engagement.

Prerequisites: DJC 201 and 202.

Three hours, three credits.

496 Individual or Collaborative Study

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 engagement using the skills gained through DJC 201, 202, and 350. They may 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.

Prerequisites: DJC 201, 202, 350.

Three hours, three credits.

498 Democracy, Justice and Civic Engagement Senior Seminar

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.

Prerequisite: DJC 496.

Three hours, three credits.

Economics (ECO)

201 Principles of Macroeconomics

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.

Three hours, three credits.

202 Principles of Microeconomics

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.

Three hours, three credits.

205 Black Gold, Speed, White Lightning and Tobacco - Economics of Growth and Decline in Appalachia

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 roundtable discussion on the future of the Region.

Three hours, three credits.

313 Money and Banking

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.

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: three hours of ENG 200-212, ECO 201 and 202.

Three hours, three credits.

315 Environmental and Natural Resource Economics

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.

Three hours, three credits.

321 History of Economic Thought

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.

Prerequisites: ECO 201 and 202.

Three hours, three credits.

330 International Trade

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.

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: ECO 201 and ECO 202.

Three hours, three credits.

400 International Finance

Analysis of foreign exchange and foreign exchange markets, balance of payments disequilibrium and adjustment, exchange rate risk management for MNC's and FDI.

Prerequisites: ECO 201 and 202.

Three hours, three credits.

402 Business Cycles and Forecasting

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.

Prerequisites: ECO 201 and 202.

Three hours, three credits.

405 Government and Business

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.)

Prerequisites: ECO 201 and 202.

Three hours, three credits.

430 Development Economics

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.

Prerequisite: ECO 201 and ECO 202.

Three hours, three credits.

490 Selected Topics in Economics

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.

Prerequisite: ECO 201 and ECO 202.

Three hours, three credits.

Ecotourism (ECT)

165 World Ecotourism Destinations and Cultures

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.

Three hours, three credits.

257 Interpreting Culture and Nature

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.

Three hours, three credits.

265 Foundations of Ecotourism

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.

Three hours, three credits.

357 Applied Interpretation

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.

Three hours, three credits.

391 Cultural and Heritage Tourism

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.

Three hours, three credits.

421 Issues in Sustainable and Ecotourism

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.

Three hours, three credits.

Education (EDU)

147, 247, 347 Selected Topics in Education

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.

Prerequisites: will be stipulated in each topics course description.

Three Credits.

202 The Profession of Teaching: Issues in Education through Technology

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 education using a variety of educational technology and media applications. 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 take and pass the Virginia Language and Communication Assessment (VCLA).

Three credits.

302 The Profession of Teaching: Foundations

This course immerses the student in the history, philosophy, psychology, and sociology of general and special education in American schools. Through multiple readings and directed activities students create a developmental framework to test the practicality of educational theory in the public school setting.

This course is designated as “Writing Intensive”; a grade of “C” or higher is required for this course to count toward the six-credit-hour Writing Intensive graduation requirement for all students at Ferrum College. A student cannot earn a grade of “C” or higher in this course unless all writing assignments are “C” or higher. Students are required to take and pass Praxis Core Academic Skills for Educators (PCAS) as part of course requirements.

Prerequisites: PSY 211/291(PSY 291 for elementary and all-level candidates only), EDU 202, pass VCLA.

Three credits.

310 The Profession of Teaching: Developmental and Diagnostic Reading

This course establishes the foundation for teaching reading and for diagnosing reading difficulties at the elementary level. Upon completion of this class, students are required to take the Virginia Reading Assessment, VRA. 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.

Co-requisite: EDU 311; Prerequisite: EDU 302, pass VCLA and PCAS.

Three credits.

311 The Profession of Teaching: The Language Arts

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.

Co-requisite: EDU 310; Prerequisite: EDU 302, pass VCLA and PCAS

Three credits.

312 The Profession of Teaching: Content Reading Literacy

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.

Prerequisite: EDU 302, pass VCLA and PCAS.

Three credits.

320 Differentiated Instruction in Mathematics for the Elementary/Middle School

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.

Prerequisites: MTH 105, 107, EDU 302, Pass VCLA and PCAS. Taking MTH 208 is strongly recommended prior to this course.

330 The Profession of Teaching: The Middle School

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.

Prerequisites EDU 202 and EDU 302, pass VCLA and PCAS.

Three credits.

352 Classroom Management and Differentiated Instructional Strategies

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, 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 in conjunction with EDU 353.

Prerequisites: EDU 310, 311 and passing scores on PCAS and VCLA. Co-requisite: EDU 353.

Three credits.

353 Elementary/Middle School Curriculum, Instruction and Assessment Strategies

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 forty (40) hours of Internship in conjunction with EDU 352.

Prerequisites: EDU 310, 311 and passing scores on PCAS and VCLA. Co-requisite: EDU 352.

Three credits.

355 The Profession of Teaching: Secondary and Middle School Curriculum, Instruction and Assessment Strategies

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.

Co-requisite EDU 357; Prerequisites EDU 312, passing scores on VCLA and PCAS.

Three credits.

357 The Profession of Teaching: Secondary and Middle School Classroom Management and Differentiated Instructional Strategies

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.

Co-requisite EDU 355; Prerequisites EDU 312, passing scores on VCLA and PCAS.

Three credits.

358 The Profession of Teaching: All-Level (Pre-K-12) Curriculum, Instruction and Assessment Strategies

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.

Co-requisite: EDU 360; Prerequisite: EDU 312, passing scores on VCLA and PCAS.

Three credits.

360 The Profession of Teaching: All-Level (Pre-K-12) Classroom Management and Differentiated Instruction Strategies

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.

Co-requisite: EDU 358; Prerequisite: EDU 312, passing scores on VCLA and PCAS.

Three credits.

402 The Profession of Teaching: The Student Teaching Field Experience

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.

Prerequisites: EDU 352/353, 355/357 or 358/360 and compliance with all published program requirements, including passing scores on VCLA, PCAS, Praxis II and RVE for Elementary Level. Ten credits

403 The Profession of Teaching: The Student Teaching Synthesis Experience

Synthesis comprises the completion of projects designed to synthesize the pre-professional preparation.

Prerequisites: EDU 253/353, 355/357 or 358/360, as well as concurrently taking EDU 402 The Profession of Teaching: Student Teaching as well as the compliance with all published program requirements, including passing scores on VCLA, PCAS, Praxis II and RVE for Elementary Level. Two credits.

English (ENG)

100 Fundamentals of Writing

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 Core requirements.)

Three hours, three credits.

101, 102 Composition and Research

This course sequence teaches the fundamentals of effective analytical writing and research. The first semester focuses on developing clear, correct multi-paragraph essays on private and public topics. The second semester extends those capacities to research and to writing in response to primary reading. Passing ENG 101 with a "C" or higher is a prerequisite for ENG 102. 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, since 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.

Three hours, three credits each.

131, 132, 231, 232, 331, 332, 431, 432 Journalism Practicum

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 techniques of the campus newspaper. Courses must be taken in sequence.

One hour, one credit each.

141, 142, 241, 242, 341, 342, 441, 442 Creative Arts Practicum

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.

One hour, one credit each.

200 Introduction to Literary Studies

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.

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: English 102 with a grade of "C" or higher and declared English as a major or minor, or permission of the instructor.

Three hours, three credits.

201 World Literature I

A survey of Western and non-Western classics from ancient times through 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.)

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

202 World Literature II

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.)

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

203 British Literature I

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.)

This course is designated as a sophomore literature course and meets the Literature requirement in

the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

204 British Literature II

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.)

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

205 American Literature I

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.)

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

206 American Literature II

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.)

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

207 Selected Topics

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.

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

209 African American Literature

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.

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

210 World Folktales and Literature

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.

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

211 Literature and the Environment

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.

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

212 Women in Literature

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.”

This course is designated as a sophomore literature course and meets the Literature requirement in the Ferrum College Liberal Arts Core. 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: ENG 102 with a grade of “C” or higher.

Three hours, three credits

213 Literature and Film of the American Frontier

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.

This course is designated as a sophomore literature course and meets the literature requirements in the Ferrum College Liberal Arts Core. It can fulfill three hours of the writing intensive requirement for graduation from Ferrum College, for students who take this course as their second sophomore literature course and earn a grade of C or higher in the course. Students cannot earn a grade of C or higher in this course unless they earn a C or better on the writing assignments required by the course. Sometimes taught in E-Term format.

Prerequisite: ENG 102 with a grade of C or higher.

Three hours, three credits.

218 Introduction to Creative Writing

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, workshopping, and critical reading of both professional and student writing are central to the course.

Prerequisite: ENG 102 with a grade of “C” or higher, or co-requisite: ENG 102.

Three hours, three credits.

221 Introduction to Film

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.

Prerequisite: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

222 Introduction to Popular Culture.

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.

Prerequisite: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

251, 252, 351, 352 English Practicum

Designed to allow the student to gain firsthand experience in practical application of coursework through a project approved by the School Dean. 45 hours of work for one credit.

One credit.

301 Literature for Children and Adolescents

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.

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: three hours of ENG 200-212.

Three hours, three credits.

310 Media Issues

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.

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: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

311 News Writing and Editing

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.

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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

312 Feature Writing and Production

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.

Prerequisite: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

315 Media Management

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, three credits.

319 Advanced Prose Writing

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.

Prerequisite: ENG 218 with exceptions only in rare situations.

Three hours, Three credits.

320 Advanced Poetry Writing

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.

Prerequisite: ENG 218, with exceptions only in rare situations.

Three hours, Three credits.

323 The Novel I

An examination of the origins of the novel in the 17th and early 18th centuries and an analysis of its evolution to the late 19th century. Students read novels by such writers as Defoe, Fielding, Austen, Stendahl, Melville, Dickens, Flaubert, Tolstoy, Dostoyevsky, James, and Twain.

Prerequisite: three hours of ENG 200-212.

Three hours, three credits.

324 The Novel II

A study of the novel of approximately the last hundred years. Students read novels by such writers as Hardy, Conrad, Crane, Lawrence, Joyce, Kafka, Mann, Camus, Waugh, Nabokov, Fuentes, and Morrison.

Prerequisite: three hours of ENG 200-212.

Three hours, three credits.

328 Seminar: Selected Literary Topics

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.

Prerequisite: six hours of 200-level or higher literature.

Three hours, three credits.

336 Linguistics

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.

Prerequisite: ENG 102 with a grade of "C" or higher; junior or senior status.

Three hours, three credits.

338 Rhetoric

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.

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: ENG 102 with a grade of "C" or higher; junior or senior status.

Three hours, three credits.

345 American Literature 1815-1865

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.

Prerequisite: three hours of ENG 200-212.

Three hours, three credits.

346 American Literature 1865-1940

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'Neill, and Steinbeck.

Prerequisite: three hours of ENG 200-212.

Three hours, three credits.

350 Appalachian Literature

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.

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: three hours of ENG 200-212.

Three hours, three credits.

361 British Literature 1660-1798

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.

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: three hours of ENG 200-212.

Three hours, three credits.

362 British Literature 1798-1890

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.

Prerequisite: three hours of ENG 200-212.

Three hours, three credits.

365 Shakespeare

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 worldview and the nature of comedy and tragedy.

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: three hours of ENG 200-212.

Three hours, three credits.

398 Junior Seminar

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.

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: ENG 102 with a grade of “C” or higher; junior or senior status.

One hour, one credit.

401 Literary Criticism

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.

Prerequisite: six hours of 200-level or higher literature; junior or senior status.

Three hours, three credits.

421 Medieval Literature

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.

Prerequisite: three hours of ENG 200-212; junior or senior status.

Three hours, three credits.

425 Seminar: Selected Authors

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.

Prerequisite: six hours of 200-level or higher literature.

Three hours, three credits.

428 Contemporary Literature and Film

A study of contemporary writers’ and filmmakers’ images of life today in the Western world. 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.

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: three hours of ENG 200-212.

Three hours, three credits.

433 Small Group Communication

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.

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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

461 Professional Writing

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.

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: ENG 102 with a grade of “C” or higher; junior or senior status.

Three hours, three credits.

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.

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: ENG 398 and senior standing.

Two hours, two credits.

499 Internship

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.

Three, four, five or six credits. (One credit for every 100 hours worked.)

Environmental Planning and Development (EPD)

201 Introduction to Environmental Planning and Development I

An introduction to environmental planning and development, with a particular focus on social and political issues pertaining to sustainable development.

Three hours, three credits.

202 Introduction to Environmental Planning and Development II

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.

Six hours, four credits.

392/SOC 392 Eco-Social Justice: Issues and Applications

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.

Prerequisites: Sophomore standing.

Three hours, three credits.

410 Advanced Environmental Planning and Development

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.

Three hours, three credits.

Environmental Science (ESC)

102 Introduction to Environmental Science

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.

Six hours, four credits.

103 Applied Environmental Monitoring

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.

Prerequisites: ESC 102, BIO 111, AGS 110, or any 4-credit CHM course.

Six hour, four credits.

180, 181, 280, 281, 380, 381, 480, 481 Practicum

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.

Forty-five service hours, one credit.

190, 290, 390, 490 Selected Topics

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.

One to four credits.

195, 196, 295, 296, 395, 396, 495, 496 Independent Research

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.

Prerequisites: Prerequisite coursework and skills determined by individual instructors.

One to three credits.

202 Quantitative Environmental Methods and Statistics

Provides students with a fundamental understanding of the collection, analysis, interpretation, and presentation of a variety of quantitative data. It integrates a complete course in introductory statistics with a survey of fundamental environmental techniques by combining lectures with a series of class research projects. Required of all Environmental Science majors.

Prerequisites: A grade of "C" or higher in MTH 100 or High School Algebra I and II.

Six hours, four credits.

203 Fundamentals of Ecology

An introductory study of the interrelationship of organisms with the abiotic and biotic components of their environment. Includes a basic introduction to population dynamics.

Prerequisite: Sophomore Standing.

Five hours, four credits.

205 Tropical and Marine Ecology

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.

Four credits.

206 Community Ecology of the Southeast

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.

Four credits.

207 South African Ecology and Culture

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 archeological site, scenic tours and a camping trip to Kruger National Park.

Four credits.

208 Ireland's Natural History: Interaction of Nature and Culture

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.

Five hours, four credits.

209 Physical Geology and Hydrology

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.

Five hours, four credits.

302 Conservation Biology

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.

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.

Three hours, three credits.

Natural Resource Policy and Economics

Introduction to natural resource policies and economics, including legal frameworks, impact analyses, and valuation methodologies.

Prerequisite: ESC 203.

Three hours, three credits.

313 Natural Resource Management

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.

Three hours, three credits.

321 Aquatic Ecology

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.

Six hours, four credits.

405 Fisheries and Wildlife Ecology and Management

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.

Seven hours, five credits.

413 Forest Science and Management

A survey of the basic principles of managing forestlands. Emphasis is placed on ecology, silviculture and management options for private landowners.

Seven hours, five credits.

421 Pollution Science

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.

Prerequisites: CHM 101 or higher.

Six hours, four credits.

424 Environmental Toxicology

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.

Three hours, three credits.

Ferrum (FER)

105 Introduction to College Living and Learning

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.

Two credits

109 Freshman Scholars

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.

Three credits , 52 hours of contact over two weeks.

120 Thinking and Learning in College

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.

Prerequisites: Entering freshmen

Two hours, one credit.

131 Mentoring Development

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.

Two hours, one credit.

199 Introduction to Service Learning

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.

Three hours, three credits.

200 Career Exploration

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, one credit.

202 Career Planning

This course teaches students effective job-seeking skills such as resume building and preparation, job search strategies, and interview skills.

Seven weeks, one credit.

232, 332, 432 Mentoring Practicum (for GWS 101)

A leadership experience for students above the freshman level. This course, which may be taken up to three times, requires participation as a mentor in the GWS 101 as well as out-of-class interaction with freshman students.

Prerequisites: FER 131 and G.P.A. of 2.500 or better.

Two hours, one credit.

250 Introduction to Online Learning

This course is designed for all new students in the Ferrum College Online Degree Completion Program. Students will be introduced to the basic requirements of online learning and how they will learn and interact with both professors and students in the online 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.

Pre-requisite: Acceptance to Ferrum College Online Program.

Three credits

Foreign Languages (LAN)

101, 102, 201, 202 Foreign Language

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.

Three hours, three credits each.

French (FRE)

101, 102 Elementary French

A beginning course in the French language, with extensive practice in listening, speaking, reading, and writing and an introduction to the culture of France.

Three hours, three credits each.

201, 202 Intermediate French

An intermediate course in the French language, with extensive practice in communication and a study of the culture of French-speaking countries.

Three hours, three credits each.

Geography (GEO)

220 Physical Geography

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.

Five hours, four credits.

221 Geographic Information Systems

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.

Five hours, four credits.

Gateway Seminar (GWS)**101 Ferrum Gateway Seminar (GWS)**

The Ferrum Gateway Seminar, a component of the Pathways to Success program, is designed to assist new students in making a successful transition to Ferrum College. It consists of intensive individual advising and regularly scheduled classes taught by the advisor. GWS 101 helps prepare students for the academic rigors of college by focusing on discussion of concepts and ideas from a common reading. The course helps students begin their college experience with an integrating, grounding academic experience and to achieve familiarity with campus resources and college policies. In addition, it includes career exploration and assistance with time management and study skills. 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.

Two hours, two credits.

Health and Human Performance (HHP)**130 Individual Sports**

An introduction to the rules and techniques of individual sports including tennis, golf and archery. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

136 Introduction to Muscular Fitness

This course is designed to instruct students in anaerobic activities including; free weights, machines and resistance tubes and bands. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

144 Team Sports

An introduction to skills, playing strategy, rules and officiating mechanics of team sports such as volleyball, soccer, basketball, softball, baseball and football. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

145 Rhythmics, Movement, and Games

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

149, 249, 349, 449: Selected Topics in Physical Education

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. (HHP-149 Health and Wellness Concepts offered in the FOCUS term will meet the activity liberal arts core requirement.)

Prerequisites: will be stipulated in each topics course description.

One to three hours, one to three credits.

153 Cardiorespiratory Activities

Combines sustained endurance exercise. Exercises are designed to condition the heart and lungs, tone muscles, and promote flexibility. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

200 Health and Wellness Concepts

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. This course fulfills the Liberal Arts Core requirement for an activity course.

Three hours, three credits.

206 Introduction to Athletic Injuries

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.

Lab Fee required.

Three hours, three credits.

252 Foundations of Health and Human Performance Professions

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.

Three hours, three credits.

300 Responding to Emergencies

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. Lab Fee required.

Three hours, three credits.

301 Emergency Response

Designed for a wide variety of individuals with a job-related duty to act in the event of an acute injury or illness. Presents information essential for providing emergency care until more advanced medical personnel arrives.

Three hours, three credits.

305 Rehabilitative Techniques for Athletic Injuries

Advanced study of the prevention, evaluation, and care of athletic injuries with an emphasis on rehabilitation following athletic trauma or surgery.

Prerequisites: BIO 254, HHP 206.

Three hours, three credits.

315 Exercise Assessment and Prescription

A study of the process and procedures of physical fitness evaluation and prescription. Emphasis will be placed on assessment of cardiovascular fitness, flexibility, muscle strength and endurance, and body composition.

Three hours, three credits.

316 Applications of Exercise Assessment and Prescription

Designed to provide practical experience for assessing fitness levels and determining proper exercise programming for all types of individuals. Students will complete a 20 hour practicum and meet with the instructor 1 hour per week in a laboratory session to focus their experiences on important theory and concepts that apply to fitness assessment and prescription.

Co-requisite: HHP 315.

One hour, one credit.

320 Health and Physical Education for Children (Pre-K-6)

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.

Three hours, three credits.

321 The Physical Education Experience for Adolescents

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.

Three hours, three credits.

330 Coaching the Athlete

An examination of the basic elements needed for a successful sport program. Emphasis on logistics and preparation.

Three hours, three credits.

332 Strength and Conditioning

Investigates the theories and applied principles of physical training and conditioning as they relate to improvements in flexibility, muscular strength, endurance and power development. This course also examines various aerobic, flexibility and muscular strength and power programs.

Prerequisite: HHP 315.

Three hours, three credits.

338 Motor Learning

Principles and concepts of motor skill acquisition and motor performance.

Three hours, three credits.

340 Kinesiology: Scientific Basis of Human Movement

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.

Prerequisite: BIO 254.

Three hours, three credits.

345 Sport Psychology

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.

Prerequisite: PSY 201 or PSY 211.

Three hours, three credits.

348 Sports Nutrition

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.

Prerequisite: BIO 254.

Three hours, three credits.

355 Physiology of Exercise

Lecture and laboratory experiences in the physiological responses related to physical activities and sports training.

Prerequisite: BIO 254.

Three hours, three credits.

356 EKG Interpretation

This course is designed to teach the basic physiology of electrical conduction of the heart, how to interpret changes in EKG waveforms, and recognizing cardiac conditions based on EKG technology. This course will also provide an overview of heart anatomy, function, and neurophysiology.

Prerequisite: BIO 254.

Three hours, three credits.

358 Health Promotion Program Development

Students shall acquire the knowledge and skills to develop fitness and health promotion programs for individuals with a variety of needs. In addition, students will develop an understanding of the procedures necessary to evaluate and contract with vendors who supply health and fitness services.
Three hours, three credits.

400 Advanced Exercise Assessment

Designed to teach students to properly conduct more advanced exercise stress tests and assessment and interpret the results. Students will learn how to work with various testing protocols and learn how to interpret basic changes through laboratory assignments.

Prerequisites: HHP 315 and 356.

Three hours, three credits.

401 Methods for Teaching Health Education

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.

Three hours, three credits.

402 Organization and Administration of Sport

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.

Three hours, three credits.

403 Physical Education Assessment Procedures

Provides the skills needed to design, implement and assess an out-come based curriculum in physical and health education. This course focuses on pedagogical assessment, and will include various forms of alternative assessment, such as current technologies, computer-based tools, and student profiles.

Three hours, three credits.

491, 492 Special Topics in Physical Education

This class is designed to teach advanced techniques and information regarding special topics in physical education and exercise science.

One to four credits.

499 Internship

This course provides students the opportunity to integrate previous course work 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.

Four credits.

Health Sciences (HSC)

190, 290, 390, 490 Special Topics

A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule.

One to four hours credit.

299 Professional Preparation

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.

History (HIS)

101 Western Civilization I

A study of the origins of western society and thought from the origin of civilization to the 17th century.

Three hours, three credits.

102 Western Civilization II

An examination of the major developments in western society since the 17th century and their global impact.

Three hours, three credits.

201 American History I

A survey of the development of the United States from its colonial inception through the Civil War.

Three hours, three credits.

202 American History II

A study of the major forces at work in American society, politics, and thought from Reconstruction through the middle decades of the 20th century.

Three hours, three credits.

205 Europe 1500-1789

A history of western Europe from the Renaissance through the dawn of the French Revolution. Focal points of attention will include the Renaissance, the Reformation, the rise of the state, overseas expansion, and the Enlightenment.

Prerequisite: ENG 102 (with a "C" or higher).

Three hours, three credits.

206 Europe 1789-1945

A history of western Europe from the French Revolution through World War II. Focal points of attention will include the French Revolution, the Napoleonic era, industrialization, intellectual trends, the New Imperialism, and the rise of Communism and Fascism.

Prerequisite: ENG 102 (with a "C" or higher).

Three hours, three credits.

220 Introduction to Museum Studies

An introductory survey of the museum profession, its standards and techniques, combined with hands-on experiences in various phases of museum operations.

Three hours, three credits.

303 The American Revolution

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.

Prerequisite: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

304 Civil War Battlefield Tour

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.

Eighty hours (ten days on tour), one or three credits.

305 The American Civil War

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.

Three hours, three credits.

306 Women in Twentieth-Century America

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."

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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

309 The United States 1900-1945

A study of political, economic, and social developments in the U.S. from 1900 to 1945.

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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

310 The United States since 1945

A study of political, economic, and social developments in the U.S. since 1945.

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: ENG 102 with a grade of “C” or higher.

Three hours, three credits.

312 History of United States Foreign Policy since 1945

A study of the major developments in United States foreign policy since 1945, including the economic, intellectual, and political background of United States policy.

Three hours, three credits.

316 Virginia History

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.

Three hours, three credits.

321 Religion in American History

A study of the religious developments of the country from its colonial beginnings to the religious pluralism of today, with special attention to the interaction of religious factors with other aspects of national growth and development.

Three hours, three credits.

345 European Social History

A history of western European society since the late medieval period. Topics will include work, class, family, gender, and popular religion.

Prerequisite: HIS 205.

Three hours, three credits.

350 The European Phoenix: Western Europe since 1945

An examination of the reconstruction of industrial society in Western Europe following World War II. While focusing upon developments in Germany, England, and France, the course will also survey the post-war transformation in Italy, Spain, and the Benelux nations with specific reference to the creation of the Common Market and the North Atlantic Treaty Organization.

Three hours, three credits.

355 Russia since 1917

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.

Three hours, three credits.

357 Russian History

Russia from the founding of the first Russian state to the revolution of 1917. The course will cover political, economic, intellectual and cultural history.

Three hours, three credits. .

371 China

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.

Three hours, three credits.

373 India

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.

Three hours, three credits.

374 Southeast Asia

A survey of the region currently comprising the nations of Indonesia, Malaysia, Philippines, Singapore, Vietnam, Laos, Thailand, Cambodia, and Myannar (Burma). Major topics include Indianization, colonialism, nationalism, communism, and the modernization process.

Three hours, three credits.

375 Sub-Saharan Africa

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.

Three hours, three credits.

378 North Africa

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.

Three hours, three credits.

380 Latin American History

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.

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: ENG 102 with a grade of "C" or higher.

Three hours, three credits.

382 United States-Latin American Relations

Deals with the formulation and implementation of United States policy toward Latin America in historical perspective, as well as with the economic and political impact of United States policy on Latin American societies. It will also deal with the ways in which Latin Americans have shaped their own policies in the context of their relationship with the United States.

Three hours, three credits.

398 Historiography

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. 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: Nine hours of history classes and ENG 102 with a grade of "C" or higher.

Three hours, three credits.

496 Individual/Alternative Study

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.)

One to three credits.

497 Selected Topics in History

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.

Prerequisite: Junior standing as a History major.

Three hours, three credits.

498 Senior Seminar

After considering the methodology of historical research and the techniques of writing history, students will begin original research for the senior thesis. Students will also write scholarly book reviews and review essays. All history majors must complete this course before enrolling in the senior thesis course.

This course, along with HIS 499, 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: ENG 102 with a grade of "C" or higher.

Three hours, two credits.

499 Senior Thesis

Students will complete a senior thesis, an original work of historical scholarship, based on research begun in the Senior Seminar. All history majors must successfully complete this course before graduating.

This course, along with HIS 498, 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: HIS 498 and ENG 102 with a grade of "C" or higher.

Two hours, one credit.

Honors (HON)

100 Cornerstone Seminar: Perspectives on Leadership (replaces GWS 101 for Honors students)

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.

Prerequisite: Boone Honors program member.

Three hours, three credits.

205 Decision-Making and Problem Solving with Mathematics (meets Math)

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.

Prerequisites: Boone Honors program member or a grade of "B" or higher in Math 100 or higher. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

206 The Bible and The Arts (meets Bible based or Non-Bible based Religion)

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.

Prerequisites: Boone Honors Program member, or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

210 Reason and the Individual (meets Literature or History)

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 worldview, students will come to appreciate more fully their roles as individuals in modern society.

Prerequisites: Boone Honors Program member, or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

211 Art, Literature, and Film of the Expressionist Period (meets Literature or Fine Arts)

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.

Prerequisites: Boone Honors Program member, or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

213 Media and Violence

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. 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.

Prerequisites: Boone Honors Program member, or a grade of “C” or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

216 The Sixties

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.

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.

Prerequisites: Boone Honors Program member, or a grade of “C” or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

220 Freedom (meets History or Political Science)

A philosophical and historical inquiry into the various concepts and forms of human freedom, and the conditions that make human freedom possible, from prehistory to the present day.

Prerequisites: Boone Honors Program member, or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

222 Political Psychology

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.

Prerequisites: Boone Honors Program member, or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course.

Three hours, three credits.

225 Religion and Science: Historical and Contemporary Perspectives (meets Religion or Science)

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.

Prerequisites: Boone Honors Program member, or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course. Three hours, three credits.

435 Values and Vocation

Capstone honors seminar that asks students to explore the connections between values, talents, and career choices.

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.

Prerequisites: Boone Honors Program member, or English 102. Students who are not members of the Boone Honors Program will be screened by the instructor before beginning an honors course. Three hours, three credits.

Horticulture (HOR)

180, 181, 280, 281, 380, 381, 480, 481 Practicum

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.

*Prerequisite: AGS 110. Pass/Fail
Forty-five service hours, one credit.*

190, 290, 390, 490 Special Topics

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.

One to four hours credit.

195, 196, 295, 296, 395, 396, 495, 496 Independent Research

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.

*Prerequisites: Prerequisite coursework and skills determined by individual instructors.
One to three credits.*

219 Introduction to Horticulture

An introduction to the principles and practices of horticulture, including the production, harvesting, storage, marketing, utilization, and improvement of fruits, vegetables, ornamentals, and other specialized plants.

Prerequisite: BIO 202

Six hours, four credits.

321 Plant Propagation

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.

Prerequisites: BIO 202.

Five hours, three credits.

410 Greenhouse Management

Studies construction, maintenance, and utilization of greenhouses, and includes the management of the internal and external environment of these structures.

Prerequisite: HOR 219.

Six hours, four credits.

411 Landscape Design and Management

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.

Prerequisite: HOR 219.

Six hours, four credits.

415 Plant Diseases

Studies plant disease development and control with applications in agronomy, horticulture, forestry, and natural areas and covers both organismal and environmental factors of disease.

Prerequisite: BIO 202.

Six hours, four credits.

418 Plant Pest Management

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.

Prerequisite: AGY 301, AGY 315, or ESC 203.

Six hours, four credits.

Humanities (HUM)

200, 300 The Holocaust: Past, Present, and Future

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.

Prerequisites for 200-level credit: ENG 102 with a grade of "C" or higher; for 300-level credit, junior standing.

Three hours, three credits.

302 African-American Studies: Forty Years and a Dream

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.

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: Junior standing.

Three hours, three credits.

250 Computer Applications for the Humanities

This course is designed for students in the humanities and will focus on developing intermediate level skills in the use of the Microsoft Office suite programs of Word, Excel, Access, and Power Point, and also in the use of Internet search engines and databases which specialize in the areas of the student's discipline. Students will be required to apply the computer skills learned in class to projects relating to their fields.

Prerequisite: CSC 100 or BUS 230. Students receiving credit for this course cannot receive credit for CSC/BUS 325.

Three hours, three credits.

333 Intercultural Conflict Mediation

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. Prerequisite: Completion of English 102 with a grade of "C" or better and a letter of recommendation from the student's faculty advisor.

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.

Three hours, three credits.

International Studies (IST)

IST 325 Special Topics in International Studies

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.

Prerequisites: Junior or senior standing

Three hours, three credits.

IST 350: International Relations Theory

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.

Prerequisite: PSC 203

Three credits, three hours.

IST 496: Individual or Collaborative Study

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.

Prerequisites: PSC 203, any of the following research courses: (SSC 251, SOC 470, HIS 398, or ENG 401), senior standing.

Three hours, three credits.

IST 498: International Studies Senior Seminar

A capstone course in which students synthesize, expand, and present research projects previously developed in IST 496.

Prerequisites: IST 496 and Senior Standing

Three credits, three hours.

Mathematics (MTH)

099 Basic College Mathematics

A one-semester course that is designed for students requiring an in depth review of Algebra I. This course focuses on the study of signed numbers, elementary functions, elementary algebraic expressions and their applications.

Three hours, credit not for graduation.

100 Intermediate Algebra

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 Core requirements.) Lab fee required.

Three hours, three credits.

105 Fundamentals of Mathematics

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 Number Systems, Algebra, Geometry, Probability and Statistics, and selected other topics.

Prerequisite: A grade of "R" or "D" or higher in Math 100.

Three hours, three credits.

106 Math Manipulatives

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.

Six hours, three credits.

107 Introduction to Finite Mathematics

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.

Prerequisites: MTH 100 or 105 or placement test into MTH 107.

Three hours, three credits.

111 Pre-Calculus I

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. MTH 103 and MTH 111 cannot both be taken for credit.

Prerequisite: MTH 100 with a grade of "C" or higher.

Three hours, three credits.

112 Pre-Calculus II

In this course students expand their knowledge of pre-calculus topics to include trigonometric functions, sequences, and series. MTH 103 and MTH 111 cannot both be taken for credit.

Prerequisite: MTH 111 with a grade of "C" or higher.

Three hours, three credits.

180, 280, 380, 480 Mathematical Sciences Practicum

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 mathematical science 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. (May be repeated up to three credit hours).

One credit each.

190, 290, 390, 490 Selected Topics

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.

Prerequisites depend on course topic.

One to three hours, one to three credits.

203 Concepts in Calculus

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.

Prerequisite: A grade of "C" or higher in MTH 111.

Three hours, three credits.

208 Introductory Statistics

In this course students study theory and application of descriptive and inferential statistics.

Prerequisite: MTH 107, 111 or higher.

Three hours, three credits.

211 Calculus I

A study of the limit concept, differentiation and integration of algebraic, exponential, trigonometric, and logarithmic functions, applications of the derivative, and applications of the definite integral. MTH 203 and MTH 211 may not both be taken for credit.

Prerequisite: MTH 112.

Five hours, four credits.

221 Calculus II

This course examines techniques of integration not discussed in Calculus I, applications of integrals, integrals in polar coordinates, the theory of differentiation and integration, improper integrals, sequences, and series.

Prerequisite: MTH 211.

Five hours, four credits.

301 Multivariable Calculus

Vector Calculus, partial differentiation, and multiple integrals are included in this course.

Prerequisite: MTH 211.

Three hours, three credits.

302 Introduction to Linear Algebra

Matrix algebra, vector spaces, linear transformations and matrices.

Prerequisite: MTH 211.

Three hours, three credits.

303 Differential Equations

A study of differential equations of the first order, linear equations of any order, homogeneous linear equations and applications.

Prerequisite: MTH 221.

Three hours, three credits.

306 Intermediate Statistics

Follows MTH 208. More advanced topics in parametric and nonparametric statistics are considered.

Prerequisite: MTH 208.

Three hours, three credits.

311, 312 Discrete Mathematical Structures

Includes a review of set algebra including mappings and relations. Then several discrete mathematical structures, most of which have direct application to computer science, are studied. These structures include sets, sequences, relations, graphs, digraphs, functions, permutations, posets, Boolean algebras, trees, languages, groups, semigroups, and finite-state machines.

Prerequisite: MTH 111 or higher.

Three hours, three credits each.

320 Concepts in Liberal Arts Mathematics

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.

Prerequisite: MTH 105 or higher.

Three hours, three credits.

410 Introduction to Numerical Methods

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.

Prerequisites: MTH 211, 302.

Three hours, three credits.

420 Foundation of Geometry

Emphasis is placed on Euclidean Geometry and its postulates. Non-Euclidean geometry and the subsequent developments in mathematics are included. The student will study one or more geometric axiom systems and construct many proofs relying solely on logic and the axioms. 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: MTH 211.

Three hours, three credits.

497 Foundations of Mathematics

This course is the beginning of the capstone experience for Mathematical Sciences 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.

Prerequisites: MTH 208, MTH 302, MTH 303, and MTH 311.

Two hours, two credits.

498 Senior Seminar in Mathematics

Discussion and presentation of papers by students and faculty on problems of current interest in Mathematical Science using knowledge gained from previous courses and initiating new and current research ideas.

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: MTH 497 and Senior standing with a major in Mathematical Sciences.

Three hours, three credits.

Music (MUS)

100 Music Appreciation

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.

Three hours, three credits.

102 Music Fundamentals

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.

Three hours, three credits.

MUS 111, 112, 211, 212, 311, 312, 411, 412 – Concert Choir

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.

Three hours, one credit each.

MUS 117, 118, 217, 218, 317, 318, 417, 418 – Collegiates

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. May be repeated for credit. Attire Fee required.

Three hours, one credit each.

MUS 121, 122, 221, 222, 321, 322, 421, 422 – Handbell Ensemble

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.

Three hours, one credit each.

MUS 123, 124, 223, 224, 323, 324, 423, 424 – Jazz Combo

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.

Three hours, one credit each.

MUS 127, 128, 227, 228, 327, 328, 427, 428 – Classical Ensemble

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.

Three hours, one credit each.

143, 144 Piano Class

A group setting for beginning piano instruction and music reading.

Two hours, one credit each.

145 The World of Piano

An introduction to piano playing, coupled with a survey of historic keyboard masterpieces from Bach to Rachmaninov.

Three credits.

151, 152, 251, 252, 351, 352, 451, 452 Private Music Lessons

Applied one-half hour music lessons are available in voice, piano, and selected instruments as approved by the instructor.

One-half hour, one credit each.

153, 154 Voice Class

Class instruction in the basic and intermediate techniques of singing through lecture and demonstration, group instruction, and individual participation.

Two hours, one credit each.

155 Guitar Class

Basic techniques for playing solos and accompaniments. Students need to provide an acoustical guitar, preferably with nylon strings, and study material. Beginners only.

Two hours, one credit.

161, 162, 261, 262, 361, 362, 461, 462 Applied Music Lessons

Applied one-hour music lessons are available in voice, piano, and other musical instruments as approved by the instructor.

One hour, two credits each.

203, 204 Harmony and Musicianship

A basic course in music theory, rhythm, and practical harmony.

Prerequisite: MUS 102, MUS 203 for 204.

Three hours, three credits each.

358 Music: Baroque and Classic Periods

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.

Prerequisite: MUS 100.

Three hours, three credits.

359 Music: Romantic and Modern Periods

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.

Prerequisite: MUS 100.

Three hours, three credits.

426 Music for Children

Principles of music development in children. Includes emphasis on selection of materials for children, classroom techniques for musical development.

Three hours, three credits.

480 Music Seminar: Advanced Topics in Performance

Provides intensive study in a particular topic in music that is not available through other courses or internship.

Prerequisite: Consent of instructor.

Three hours, three credits.

Natural Science and Mathematics (NSM)

307 Junior Seminar

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.

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.

Two and one-half hours, two credits.

399 Professional Preparation

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.

One hour, one credit.

497, 498 Senior Seminar

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. 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.

NSM 498, 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 for NSM 497: NSM 307. Prerequisite for NSM 498: NSM 497.

Two and one-half hours, two credits.

499 Internship

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 course work.

Prerequisites: NSM 399 and 2.0 grade point average. Graded.

400 service hours, three credits

Philosophy (PHI)

101 Logic

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.

Three hours, three credits.

131 The Human Condition

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.

Three hours, three credits.

211 Ethics

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.

Three hours, three credits.

221 Survey of Ancient and Medieval Philosophy

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.

Three hours, three credits.

222 Survey of Modern Philosophy

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.

Three hours, three credits.

301 Fundamentals of Writing Philosophy

Focuses on reading, analyzing, and writing arguments. Particular emphasis is placed on the use of logical principles in the composition and critical evaluation of philosophical essays.

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.

Prerequisites: PHI 101 and ENG 102, both with a grade of “C” or higher.

Three hours, three credits.

311 Business Ethics

Investigates how philosophy may be applied to reach decisions about specific ethical problems that arise in business. Issues to be discussed may include the moral evaluation of contemporary economic systems, corporate responsibility, workers’ rights, whistle blowing, affirmative action, truth in advertising, insider information, and responsibility to third world countries.

Three hours, three credits.

312 Professional Ethics

Examines major principles in theoretical ethics and considers how those principles can be applied to contemporary issues in the professions. Discussions may include issues related to the following: professional/client relationships, confidentiality, fair practices regarding availability of services, environmental protection, stem cell research, and the legitimacy of advertising.

Three hours, three credits.

316 Philosophy of Law

An examination of philosophical issues in law. The course may include discussions of various theories concerning the nature and justification of law (e.g., legal positivism, legal realism, and natural law), anarchism, the relationship between morality and legality, the nature of legal rights and obligations, civil disobedience, the role of punishment, the meaning of justice, and the possibility of international law.

Three hours, three credits.

321 19th Century Continental Philosophy

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.

Three hours, three credits.

326 Philosophy of History

An examination of the various approaches to the problem of the meaning of history. Issues to be discussed may include the following: the distinction between speculative and critical philosophies of history, the question of pattern in historical development, the nature and possibility of historical

knowledge, the problem of historical causation and prediction, historiographic strategies and their philosophical bases, the role of interpretation in historical understanding, the relationship between history and nature, and the uses of history.

Three hours, three credits.

331 Metaphysics

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.

Prerequisite: one course of philosophy.

Three hours, three credits.

332 Phenomenology and Existentialism

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.

Prerequisite: one course in philosophy.

Three hours, three credits.

431 Philosophy of Religion

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.

Prerequisite: one course in philosophy.

Three hours, three credits.

481, 482 Seminar: Topics in Philosophical Studies

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.

Prerequisite: one course in philosophy.

Three hours, three credits each.

498, 499 Senior Seminar in Philosophy

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.

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 for 498: Philosophy major and Senior Status; for 499 Prerequisite: 498.

Two hours, two credits each.

Physics (PHY)

190, 290, 390, 490 Special Topics

A course that allows the physics faculty, in response to student interest, to offer a class not normally in the schedule.

Prerequisites: PHY 203.

One to four credits.

201, 202 General Physics

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.

Prerequisite: MTH 105 or 111. Additional prerequisite for 202: PHY 201.

Five hours, four credits each.

203, 204 Fundamentals of Physics

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.

Prerequisites: MTH 211. Additional prerequisite for 204: PHY 203.

Six hours, four credits each.

Political Science (PSC)

101 American National Government and Politics

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.

Three hours, three credits.

202 State and Local Government

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.

Three hours, three credits.

203 International Politics

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.

Three hours, three credits.

205 Comparative Government

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.

Three hours, three credits.

207 Special Issues in Political Science

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.

Three hours, three credits.

277 African Politics, Film, and Literature

This course will extend the study of African politics into literary fiction and film. It will encourage the use of literature and film as necessary vehicles to provide concrete impressions of the moral and institutional dimensions of African political life.

Three hours, three credits.

300 Research Methods

An examination of the strategies and tactics of design, observation, and measurement in political science and criminal justice research.

Prerequisites: SSC 251.

Three hours, three credits.

302 Political Geography

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.

Three hours, three credits.

303 Political Theory from Socrates to Locke

Surveys European political theory from classical times through the seventeenth century. Students will read Plato, Aristotle, Locke, and Hobbes.

Three hours, three credits.

304 Modern Ideologies

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.

Three hours, three credits.

306 Politics and Human Rights

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.

Three hours, three credits.

310 Political Parties and Groups in the United States

An examination of the character, functions, and roles of political parties and political interest groups.

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: ENG-102 with a grade of "C" or higher.

Three hours, three credits.

324 U.S. Constitutional Law

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.

Three hours, three credits.

384 The President and Congress

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.

Prerequisite: PSC 101.

Three hours, three credits.

399 Citizenship and Service Learning

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.

Three hours, three credits.

402 Policy Analysis

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.

Prerequisite: PSC 101.

Three hours, three credits.

420 War and Peacekeeping: U.S. National Security Policy

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.

Three hours, three credits.

435 Political Economy of Development

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.

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: ENG-102 with a grade of "C" or higher.

Three hours, three credits.

440 International Law and Organization

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.

Prerequisite: PSC 203.

Three hours, three credits.

491 Topics in Political Science

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.

Prerequisite: Junior standing.

Three hours, three credits.

496 Individual or Collaborative Study

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.

One to three credits.

498 Political Science Senior Seminar

This will be a culminating experience for seniors 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.

Prerequisites: Senior Standing, PSC 101, SSC 251. At least one course from each of the three main elective categories in the major (American Politics, Comparative/IR, Methods/Theory), and at least one of the following: PSC 202, 203 or 205.

Three hours, three credits.

499 Internship

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.

Three, six or nine credits.

Psychology (PSY)

201 General Psychology

An introduction to the basic concepts, methods, theories, and applications of psychology.

Three hours, three credits.

206 APA Style Writing

Students will learn to write in APA style through exercises with library and internet research as well as report writing of empirical research of their own. Daily exercises are given on various aspects of APA style including, but not limited, to citations, references, tables, figures, and paper format. A lab will be included where students work on exercises and receive feedback. Students will be given a brief overview of research methodology, after which they will carry out a research project and complete an entire paper in APA style.

Three hours, two credits.

211 Human Growth and Development – Child and Adolescent

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.

Prerequisite: PSY 201.

Three hours, three credits.

212 Human Growth and Development – Adulthood

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.

Prerequisite: PSY 201.

Three hours, three credits.

230 Social Psychology

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.

Prerequisite: PSY 201.

Three hours, three credits.

291 Practicum and Child Development Lab

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.

Prerequisite: PSY 201, and Pre-requisite or Co-requisite: PSY 211.

20 Service Hours; One hour, one credit.

297, 398, Professional Seminar I, II

These one-hour courses are designed to give psychology majors an integrated professional experience beginning as soon as psychology is declared as their major, usually at the end of the freshman year or in the sophomore year. Professional Seminar I (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; Professional Seminar II (required of second semester juniors) focuses on professional ethics and career planning; *One hour, one credit each.*

298 Pre-Professional Placement

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.

Prerequisites: PSY 201 and permission of instructor.

36 hours in field, 28 hours in classroom, three credits.

299 Field Experience

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.

Prerequisites: PSY 201 and permission of instructor. (Can be repeated for up to a total of four credits.)

Two credits.

306 Research Methods in Psychology I

An introduction to descriptive and correlational research accompanied by the appropriate statistical theory and procedures. Students conduct descriptive and correlational research analyze the collected data using appropriate statistics, and write research papers.

Prerequisite: PSY 201, 206 and MTH 107.

Three hours, three credits.

307 Research Methods in Psychology II

An introduction to experimental research accompanied by the appropriate statistical theory and procedures. Students conduct each type of basic research, analyze the collected date using appropriate statistics, and write research papers for each. A proposal of original research is also completed.

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: PSY 201, 206, 306 and MTH 107.

Three hours, three credits.

314 Learning

Principles, theories, and issues in classical and instrumental conditioning; analysis of relationships between stimulus, response, reinforcement, punishment, and other motivational factors; some laboratory experience.

Prerequisite: PSY 201.

Three hours, three credits.

320 Abnormal Psychology

A survey of psychological disorders; classification, diagnosis, symptomatology, etiology, treatment, and theories of psychopathology.

Prerequisite: PSY 201.

Three hours, three credits.

325 Psychopathology of Childhood

Examines the characteristics, causes, and treatments of abnormal behavior manifested by children from birth through adolescence.

Prerequisite: PSY 201.

Three hours, three credits.

328 Health Psychology

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).

Prerequisite: PSY 201.

Three hours, three credits.

331 Cognitive Development

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.

Prerequisite: PSY 201.

Three hours, three credits.

332 Cognitive Psychology

This course will cover the area of cognitive psychology which includes all topics related to the process of thinking (such as memory, attention, language, problem solving, etc.). Cognitive Psychology will also cover the brain processes associated with these areas as well as the topic of artificial intelligence.

Prerequisites: PSY 201. PSY 206 is highly recommended.

Three hours, three credits.

333 Biological Psychology

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.

Prerequisite: PSY 201.

Three hours, three credits.

335 Psychological Assessment

Covers test construction, observation, interviewing, rating scales, personality inventories, intelligence tests, interest tests, and ability tests.

Prerequisite: PSY 201.

Three hours, three credits.

340 Personality

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.

Prerequisite: PSY 201.

Three hours, three credits.

345 Sport Psychology

An introduction to sport psychology, designed to examine psychological dimensions which influence skill acquisition and performance of an athlete in a competitive environment.

Prerequisite: PSY 201 or 211.

Three hours, three credits.

348 Techniques of Counseling

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.

Prerequisites: PSY 201 and either PSY 320 or 340.

Three hours, three credits.

438 Topics in Psychology

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.

Prerequisite: PSY 201. (Can be repeated for up to six credits.)

Three credits.

450 History and Systems of Psychology

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.

Prerequisites: PSY 201 and a total of 12 hours of psychology prior to enrollment.

Three hours, three credits.

496 Directed Study in Psychology

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.

Prerequisite: PSY 306 or another research course with permission of the instructor. (Can be repeated once and is offered as need arises.)

One to three credits.

498: Professional Psychology Seminar: The Science of Psychology

This senior psychology capstone course focuses on the science of psychology and integrating material from earlier psychology courses 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.

Prerequisites: 206, 297, 306, 307 and 398.

Three hours, three credit hours.

499 Internship

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.

Three, six or nine credits. (Credits depend on number of hours worked.)

Recreation Leadership (REC)

103 Backpacking and Hiking

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

104 Rock Climbing and Rappelling

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

105 Winter Camping

This experiential course emphasizes basic knowledge and skill development in winter camping while emphasizing low impact techniques. In addition to regular classroom meetings, students will participate in day and weekend outings. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

106 Outdoor Water Sports

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

139 Orienteering

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. Meets Activity requirement in Liberal Arts Core.

Two hours, one credit.

260 Foundations of Recreation and Leisure

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.

Three hours, three credits.

270, 271, 370, 371, 470, 471 Recreation Practicum

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. May be repeated for up to 5 credits.

Prerequisite REC 260.

One credit each.

319 Recreation Delivery Systems

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.

Three hours, three credits.

321 Outdoor Recreation Concepts and Programs

A study of the factors involved in the planning, development, and programming of outdoor recreation services. Emphasis will be placed on combining field trips and experience with classroom exposure to provide for optimal learning.

Three hours, three credits.

325 Wilderness Leadership I

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.

Three hours, three credits.

329 Foundations of Adventure Based Counseling

(see SWK 329)

Three credits.

332 Camp Administration

This course studies the historical and philosophical development of organized camping with emphasis on the organizational structure, administrative process, and daily operation of camp management.

Three hours, three credits.

335 Ecotourism Administration

This course will examine the administrative practices of a successful and sustainable ecotourism business. Topics include understanding the ecotourism industry, the planning process, marketing, travel trade, building partnerships, and customer service.

Three hours, three credits.

341 Program Planning and Leadership

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.

Four hours, four credits.

343 Facilitation of Adventure Pursuits

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 frontloading, metaphors, and story lines will also be explored.

Three hours, three credits.

350 Risk Management, Safety, and Legal Issues in Recreation Administration

A systematic investigation regarding current trends and court rulings in the area of athletics and recreation, with emphasis on common law.

Three hours, three credits.

360 Recreation Leadership Theory and Philosophy

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.

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.

Three hours, three credits.

361 Outdoor Education

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.

Three hours, three credits.

372 Eco-Adventure

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.

Three hours, three credits.

410 Recreation Administration

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.

Three hours, three credits.

413 Recreation Facility Planning, Development, and Maintenance

A systematic study of the strategies involved in planning and maintaining recreational and sports facilities.

Three hours, three credits.

440 Recreation Seminar

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.

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: REC 260.

Three hours, Three credits.

450 Special Events Planning and Management

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.

Three hours, three credits.

475, 492 Special Studies in Recreation and Leisure

An opportunity for students to become involved in research, studies of special interest, or practical experiences not available through other courses or internships.

Prerequisite: REC 260.

One to three hours, one to three credits.

499 Internship

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.

Prerequisites: REC 260, 270, 370, and 50 hours approved work experience.

Four credits.

Religion (REL)

111 Literature of the Bible

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 113.*)

Three hours, three credits.

112 Literature of the Old Testament

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 113.*)

Three hours, three credits.

113 Literature of the New Testament

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.*)

Three hours, three credits.

151 World Religions

An introductory study of the origins, beliefs, and practices of the major religions of the world.

Three hours, three credits.

206 The Search for Values

An examination of types of values, the process of valuation, individual and communal values, and values clarification. The course will deal with various values and lifestyles derived from systems of religious faith as well as those of a secular nature.

Three hours, three credits.

207 Selected Topics

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.

Three hours, three credits.

216 Religion in Film

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.

Three hours, three credits.

222 History of Christian Thought

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.

Three hours, three credits.

230 Foundations of Christian Education

This course is designed to acquaint students pursuing a career in Christian ministry to the theoretical “core” of educational ministry. Understanding educational ministering can be accomplished through three avenues, the context of ministry (the congregation), the focus of ministry (usually an age level specialty), or the role of ministry (the Christian educator) while including some orientation to the other two approaches (congregational study and age level emphases). Students will evaluate how material discussed in the course is applied in the local church setting.

Prerequisite: six hours of religion.

Three hours, three credits.

245 Religion and Public Life

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.

Three hours, three credits.

311 Prophetic Literature of the Old Testament

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.

Prerequisite: REL 111 or 112.

Three hours, three credits.

312 Wisdom Literature of the Old Testament

A study of the wisdom literature of the Old Testament in the cultural and literary context of the Ancient Near East. The approach is both critical and interpretive, and assumes that the truths formulated by ancient sages are not limited by space or time.

Prerequisite: REL 111 or 112.

Three hours, three credits.

315 Studies in the Gospel

A detailed critical study of the four canonical gospels.

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: REL 111 or 113.

Three hours, three credits.

316 Life and Letters of Paul

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.

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: REL 111 or 113.

Three hours, three credits.

331 Christian Theology

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.

Three hours, three credits.

397, 398, 399 Ministry Practicum

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.)

One to three credits. (One credit for every 100 hours worked.)

401 Biblical Archaeology

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.

Three hours, three credits.

481, 482 Seminar in Religious Studies

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.

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: consent of instructor.

Three hours, three credits.

496 Directed Study

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.

One to three credits.

Russian (RUS)

101, 102 Elementary Russian I & II

A study of Russian grammar, pronunciation, and vocabulary. The course includes practice in speaking, reading, and writing of the Russian language and an introduction to the culture of Russia.

Prerequisite for RUS 102: RUS 101, or permission of the instructor after testing.

Three hours, three credits each.

201, 202 Intermediate Russian I & II

An intermediate course in reading, writing, grammar, and conversation.

Prerequisite for RUS 201: RUS 102; Prerequisite for RUS 202: RUS 201.

Three hours, three credits each.

301, 302 Advanced Russian I & II

A study of advanced Russian written and oral communication, with continued intensive work on grammatical structure.

Three hours, three credits each.

303 Russian and Soviet Cinema

An introduction to cinema in Russia and the Soviet Union from 1896 to the present with emphasis

on film as artistic medium, industrial product, and propaganda tool. All lectures will be in English and all films are subtitled in English. Student work will emphasize writing and public speaking skills.
Three hours, three credits.

304 Russian Culture

A study of Russian civilization and culture as depicted in its art, geography, history, and literature, with a particular emphasis on Russian folkways. Lectures are in English.
Three hours, three credits.

305 Advanced Grammar

A study of advanced Russian grammar, with extensive practice in the use of some of the more difficult grammatical constructions used in modern Russian.
Prerequisite: RUS 201 and 202.
Three hours, three credits.

306 Russian Folklore

This course, conducted in English, introduces students to basic principles of the study of folklore in the East Slavic context (e.g., Russia and Ukraine). Topics will include verbal culture (fairy tales, legends, epics, jokes, proverbs, incantations), spiritual culture (yearly cycle ritual, life cycle ritual, belief, pantheons, spirits, the undead), and material culture (clothing, icons, housing, farmstead, spatial organization) most often observed in Russian and Ukrainian village life.
Three hours, three credits.

401 Russian Literature of the 19th Century

An introductory survey of Russian literature of the 19th century. The course is taught in English with emphasis on oral and written expression by the student.
Three hours, three credits.

402 Russian Literature of the 20th Century

An introductory survey of Russian literature of the 20th century. The course is taught in English with emphasis on oral and written expression by the student.
Three hours, three credits.

412 Structure of Russian

This course, conducted mostly in English, introduces study of Russian as a linguistic system. Students will gain greater insight into the history of the language as well as topics in contemporary usage. The course does not emphasize the development of specific skills (e.g., speaking, writing, reading, listening), although the concepts introduced in this course will improve students' fluency in spoken and written Russian.
Prerequisite: RUS 301, 302, or 305 with a grade of C or higher, or native fluency in Russian (to be assessed by the instructor).
Three hours, three credits each.

451, 452 Directed Study

An advanced directed study of an aspect of Russian language, 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.

Prerequisite: RUS 202. May be repeated.

Three hours, three credits each.

499 Russian Internship

An intensive study and/or work experience for the advanced student of Russian. (By permission of program coordinator.)

Three to nine credits.

Topics in Science (SCI)

A series of courses designed to fulfill the general Liberal Arts Core 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).

101, 102 Introductory Interdisciplinary Science

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.

Five hours, two credits.

121 Population, Food, and Environment

Topics include human population, food production, and the environmental aspects of feeding and sheltering the human population.

Five hours, two credits.

122 The Disintegrating Web: The Causes and Consequences of Extinction

Introduces students to evolutionary and ecological concepts necessary to understand the causes and consequences of species extinctions and the global loss of biodiversity.

Five hours, two credits.

123 Global Ecology and Climate Change

Introduction to several areas of science necessary to understand the changes in the earth's climate.

Five hours, two credits.

124 Plant Structure and Function: Edible Wild Plants

Students will study plant diversity from the perspective of edible wild plants. Emphasis will be on identification and collection.

Five hours, two credits.

125 Introduction to Natural History

Introduction to the study of nature emphasizing the observation and identification of organisms from selected taxonomic groups.

Five hours, two credits.

126 Natural Resource Conservation

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.

Five hours, two credits.

127 Human Sexual Reproduction, Pregnancy, Development, and Birth

An examination of the human reproduction process including the biology/physiology, diseases, infertility, contraception, abortion, and related issues.

Five hours, two credits.

128 The Healthy Human Body

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.

Five hours, two credits.

129 The Diseased Human Body

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.

Five hours, two credits.

130 Plant Nutrition and Disease: Healthy Houseplants

Students will learn the basic principles of plant nutrition and control of disease problems through the growth and maintenance of healthy houseplants.

Five hours, two credits.

132 Fossils and Geologic Time

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.

Five hours, two credits.

134 Quarks and Atoms, Dark Matter and Black Holes

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.
Five hours, two credits.

135 Our Awesome Planet Earth

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.

Five hours, two credits.

136 Chemistry in Our World

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.

Five hours, two credits.

137 The Physics of Sports

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.

Five hours, two credits.

139 The Amazing Universe

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.

Five hours, two credits.

140 DNA Fingerprinting and Genetic Engineering

Introduces DNA and the techniques employed to manipulate DNA.

Five hours, two credits.

141 Humans within Ecosystems: An Integration of Science and Humanities through Environmental Education

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.

Five hours, two credits.

143 Our Home/Our Habitat

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.

Five hours, two credits.

144 Science of Crime

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.

Five hours, two credits.

145 Bad Science in Movies

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.

Five hours, two credits.

190, 290, 390, 490 Special Topics

A course that allows the faculty, in response to student interest, to offer a class not normally in the schedule.

One to four hours credit.

201 Intermediate Interdisciplinary Science

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.

Prerequisites: MTH 105, 107, 111, 112, 203, 211 or HON 205.

Six hours, four credits.

205 Chemistry of Art

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, glasswork 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.

Prerequisites: MTH 105, 107, 111, 112, 203, 211 or HON 205.

Six hours, four credits.

SCI 244 Introductory Forensic Science and Forensic Anthropology

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.

Prerequisites: MTH 100 or higher.

77 contact hours, four credits.

250 Physical Science

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.

Prerequisites: MTH 105, 107, 111, 112, 203, 211 or HON 205.

Six hours, four credits.

Social Sciences (SSC)

251 Introduction to Social Science Research

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.

Prerequisites: Any course that satisfies the mathematics core requirement (MTH 105, 107, 111, 112, 203, or 211).

Three hours, three credits.

290 Stewardship toward Sustainability Immersion

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.

Three hours, three credits

299 Digital Storytelling: An Academic and Community based Research Experience

This course introduces students to the value of human experiences by focusing on the stories and voices from various communities. Using a combination of classroom teaching and field study, students will use audio, digital equipment (photo and video) to record the experiences and events

relevant to the people of a community. The selection of a project and community will be based on a collaborative effort between the instructor and community leaders.

Prerequisite: Sophomore standing.

Three hours, three credits.

465 Quantitative Data Analysis

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.

Three hours, three credits.

490 Stewardship toward Sustainability Capstone Seminar

This course synthesizes concepts of stewardship and sustainability with the student's major and core 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. Prerequisites: SSC 290 and completion of at least 20 credits within the certificate program.

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.

Three hours, three credits

Social Studies (SST)

250 Elementary Social Studies

Designed for students seeking a thorough treatment of topics generally associated with elementary social studies, in particular, the history, geography, economics, and civics taught in grades K-3. Emphasis is on both the acquisition and application of this knowledge.

Three hours, three credits.

Social Work (SWK)

201 Introduction to Social Work

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.

Three hours, three credits.

297 Professional Preparation Seminar I

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).

Prerequisites: SWK 201 and ENG 102 (both with minimum of "C") and overall GPA requirement of 2.2

One hour, one credit.

299 Introduction to Community Service

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.

Prerequisite: ENG 102 (with a "C" or higher). Accepted majors only; see formal acceptance process. Three hours, three credits.

305 Social Work Practice I

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.

Prerequisite: SWK 201, SWK 297, and additional major requirements. Accepted majors only; see formal acceptance process.

Three hours, three credits.

320 Social Welfare Policy: History, Philosophy, and Current Policies

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. Prerequisite: SWK 201, and students who are designated as SWK minors or accepted majors only; see formal acceptance process.

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: SWK 201 and students who are designated as SWK minors or accepted majors only; see formal acceptance process..

Three hours, three credits.

321 Social Welfare Policy: Analysis, Formulation, and Implementation

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.

Prerequisites: SWK 320 with a grade of "C" or higher; majors only; see formal acceptance process.

Three hours, three credits.

329 Foundations of Adventure Based Counseling

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.

Three credits.

330 Human Behavior and the Social Environment

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.

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: PSY 211 or 212 and students who are designated as SWK minors or accepted majors only; see formal acceptance process.

Three hours, three credits.

350 Substance Abuse: Interventive Techniques

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.

Three hours, three credits.

355 Child Welfare Systems and Services

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.

Prerequisites: PSC 101 or PSY 201 or SOC 202.

Three hours, three credits.

397 Professional Preparation Seminar II

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.

Prerequisite: formal acceptance into the Social Work major, SWK 305, 320; concurrent with SWK 321 and 330.

One hour, one credit.

405 Social Work Practice II

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.

Prerequisite: SWK 305, 320, 321 and 330. Required concurrent with: SWK 410, 497, 498 and SOC 470.

Three hours, three credits.

410 Social Work Practice III

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.

Prerequisites: SWK 305, 320, 321 and 330. Required concurrent: SWK 405, 497, 498, and SOC 470.

Three hours, three credits.

441 Applied Social Work Research

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.

Prerequisite: SOC 470 or PSY 306.

Three hours, three credits.

450 Topics in Social Work

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.

Prerequisite: SWK 201.

Three hours, three credits.

489 Senior Field Practicum and Seminar I

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.

Prerequisites: SWK 305, 321, 330, 397; concurrent with: SWK 405, 410, 497, and SOC 470.

Three hours, three credits

497 Professional Preparation Seminar III

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.

*Prerequisites: SWK 305, SWK 321 and 330; concurrent with SWK 405, 410, 498 and SOC 470.
One hour, one credit.*

498 Social Work Senior Capstone

Taken concurrently with SWK 499 Senior 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.

*Prerequisites: all SWK major course requirements; concurrent with SWK 499.
Three hours, three credits.*

499 Field Practicum and Seminar II

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.

*Prerequisite: all SWK major requirements and concurrent with SWK 498.
Nine credits.*

Sociology (SOC)

101 General Sociology

This course enables students to conceptualize the social world and their role in it through application of sociological terminology and theory.

Three hours, three credits.

202 Social Problems

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.

Three hours, three credits.

203 Sociology of U.S. Cultural Diversity

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.

Three hours, three credits.

204 Sociology of Sport

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.

Three hours, three credits.

205 Marriage and the Family

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.

Three hours, three credits.

206 Introduction to American Folk Studies

An introduction to the genres of folk life as applied to urban, rural, historical, and contemporary American folk culture.

Three hours, three credits.

207 Sociology of Sex and Gender Roles

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.

Three hours, three credits.

303 Cultural Diversity Applications in Schools and Society

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.

Prerequisites: Sophomore standing.

Three hours, three credits.

310 Social Class and Inequality

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.

Prerequisite: SOC 101.

Three hours, three credits.

320 Deviance and Social Control

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.

Prerequisite: SOC 101 or 202.

Three hours, three credits.

330 Organizations and Behavior

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.

Prerequisite: SOC 101.

Three hours, three credits.

333 Population Dynamics

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.

Prerequisites: MTH 107 or 111 and SOC 101 or 202.

Three hours, three credits.

340 Collective Behavior and Social Movements

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.

Prerequisite: SOC 101.

Three hours, three credits.

391 Directed Study in Sociology

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.

Prerequisite: SOC 101, or 202 or 203.

One to three hours, one to three credits.

SOC 392/EPD 392 Eco-Social Justice: Issues and Applications

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.

Prerequisites: Sophomore standing.

Three hours, three credits

450 Changing Roles in the Life Course

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.

Prerequisites: SOC 101 or SOC 202 and junior designation.

Three hours, three credits.

470 Social Sciences Research

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.

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: SSC 251.

Five hours, three credits.

Spanish (SPA)

101, 102 Elementary Spanish I & II

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.

Prerequisite for SPA 102: SPA 101.

Three hours, three credits each.

201, 202 Intermediate Spanish I & II

An intermediate course in reading, writing, and conversation, with emphasis on grammar, vocabulary, and pronunciation.

Prerequisite for SPA 201: SPA 102 or equivalent; Prerequisite for SPA 202: SPA 201 or equivalent.

Three hours, three credits each.

301 Advanced Grammar and Composition

A study of advanced Spanish composition, conversation, and phonetics. 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 major.

Prerequisite: SPA 202 or equivalent or any 300-level Spanish course.

Three hours, three credits each.

302 Advanced Speaking and Comprehension

A study of advanced Spanish composition, conversation, and phonetics. 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 major.

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: SPA 202 or equivalent or any 300-level Spanish course.

Three hours, three credits each.

320 Introduction to Literature in Spanish

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.

Prerequisite: SPA 301 or 302.

Three hours, three credits.

325 Spanish Culture

A study of Spanish civilization and culture as depicted in its art, geography, history, and literature. Taught in Spanish.

Prerequisite: SPA 202 or equivalent or any 300-level Spanish course.

Three hours, three credits.

326 Latin American Culture

A study of the Latin American civilizations and cultures as depicted in its art, geography, history, and literature. Taught in Spanish.

Prerequisite: SPA 202 or equivalent or any 300-level Spanish course.

Three hours, three credits.

351, 352 Spanish Conversation Circle

An opportunity for concentrated practice in the spoken language. Taught entirely in Spanish. (Note: 200-level students with a strong foundation in their language are encouraged to enroll in the Conversation Circle.)

Prerequisite: SPA 202 or equivalent or any 300-level Spanish course.

One hour, one credit each.

403 Latin American and Spanish Short Story

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. This course meets the Literature requirement in the Liberal Arts Core.

Prerequisite: Any previous 300-level Spanish course with a grade of "C" or higher.

Three hours, three credits.

404 Selected Topics in Hispanic Literature

A careful study of a selected topic in the literatures of the various countries where Spanish is spoken. Taught in Spanish. This course meets the Literature requirement in the Liberal Arts Core.
Prerequisite: Any previous 300-level Spanish course with a grade of "C" or higher.
Three hours, three credits.

411 Professional Spanish

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: Any previous 300-level Spanish course with a grade of "C" or higher.
Three hours, three credits.

451, 452 Directed Study

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. May be repeated.
Prerequisite: Two courses at the 300-level or above.
Three hours, three credits each.

498: Senior Thesis

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.
Prerequisites: Senior status and a declared Spanish major. Students must complete this course with a "C" or higher in order to complete the Spanish major.
Three credits, three hours.

Special Education (SPD)

220 Survey of Exceptional and Special Education

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.

Three credits.

Study Abroad (SAB)

250, 350 Study Abroad

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.

One to six credits.

Theatre Arts (THA)

100 Theatre Appreciation

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.

Three hours, three credits.

111 Fundamentals of Acting I

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.

Three hours, three credits.

112 Fundamentals of Acting II

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.

Three hours, three credits.

202 Stage Craft

A study of the basic techniques of scene design and construction.

Four hours, three credits.

203 Video Production Workshop

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.

Studio Fee required.

Three hours, three credits.

205 Applied Summer Theatre I

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.

Three hours, three credits.

222 Voice and Diction

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.

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.

Three hours, three credits.

233 Introduction to Musical Theatre

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.

Three hours, three credits.

246 Play Production I: Beginning Directing

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.

Five hours, three credits.

281, 282, 283, 284, 285, 286, 287, 288 Theatre Practicum

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.

One credit.

300 Auditions and Makeup Workshop

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 headshot 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.

Studio Fee required.

Three hours, three credits.

301 World Theatre I: through the Eighteenth Century

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.

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: ENG 102.

Three hours, three credits.

302 World Theatre II: from 1800 to the Present

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.

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: ENG 102.

Three hours, three credits.

305 Applied Summer Theatre II

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.

Prerequisite: THA 205.

Three hours, three credits.

320 Advanced Acting and Performance Theory

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.

Prerequisite: THA 111.

Five hours, four credits.

333 Musical Theatre II

Building on the groundwork laid in THA 233, students will focus on what professional actors, singers and dancers need to know and be able to demonstrate to make the successful transition into a musical theatre career. Those techniques and theories will include where and how to get a job in the job market, auditions, musical performance styles, and will foster a raised aesthetic perspective.

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 for the course.

Prerequisite THA 233.

Three hours, three credits.

336 Creative Dramatics in School, Church, and Community

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.

Three hours, three credits.

346 Readers Theatre

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.

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.

Prerequisites: English 102 with a grade of “C” or higher.

Three hours, three credits.

405 Applied Summer Theatre III

Intensive experience in producing plays for Ferrum’s Summer Theatre. Students will be required to specialize in box office management, directing, or supervision of interns.

Prerequisite: THA 305

Three hours, three credits.

412, 413, 414 Special Theatre Topics

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.

One to three hours, one to three credits.

446 Play Production II: Advanced Directing

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.

Prerequisite: THA 111.

Three hours, three credits.

481 Academic Theatre Practicum

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.

Two hours, one credit.

498 Senior Seminar

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.

Three hours, three credits.

499 Internship

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.

Three or six credits.

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