

Union College

2023-2024

Undergraduate Catalogue

School of Humanities and Social Sciences
Edna Jenkins Mann School of Nursing
School of Health and Natural Sciences
School of Professional and Graduate Studies

Union College | Barbourville, KY | www.unionky.edu

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DISCLAIMER

While this catalogue was prepared based on the best information available at the time of publication, all information—including statement of fees, course offerings, admission, and graduation requirements—is subject to change without notice or obligation. The catalogue is for information only and does not constitute a contract. Full-time students continuously enrolled at Union College ordinarily may expect to graduate according to the requirements stipulated in the catalogue in effect when they entered. Students failing to enroll for a period of longer than two years will fall under the catalogue in effect when they return to full-time status. Students may appeal to the Provost for exceptions to this policy.

Failure to read this bulletin does not excuse the student from the requirements and regulations described herein.

NONDISCRIMINATION POLICY

It is the policy of Union College to admit students based on merit, qualification, and character. Union College does not discriminate on the basis of sex, race, color, disability, age, national or ethnic origin, religion, sexual orientation, or veteran status in the admission of students, in its administration of educational or national programs, scholarships, loan programs or other school-administered programs, or in athletic participation. (Approved August, 2017)

From the President

Our Union community is dedicated to making a college degree accessible and affordable, and to preparing our students for success. Union defines the successful student as “one for whom the Union experience is preparation for a purposeful life; a thoughtful individual who values the contributions and complexities of history and how they impact the world today; an introspective person who is guided by a spiritual and vocational journey; a confident, caring global citizen who makes a positive impact toward a just society; a highly competent, goal-oriented representative of his or her chosen field; and a valuable contributor to the local community and economy.”

The academic and co-curricular framework that cultivates these traits is what distinguishes Union from other higher education institutions. It’s our *Union Distinction*. We are student-centered, supporting our students through matriculation, assimilation, and graduation, illuminating their paths to a meaningful life beyond college.

How do you define success? What does it mean to live a meaningful life? How can you make a difference in the world? Your Union experience will help you find the answers.

Dr. Marcia Hawkins
Union College President

Accreditation

Union College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the following levels: Certificate, Associate, Baccalaureate, Master, and Education Specialist.

Questions about the accreditation of Union College may be directed here:

Southern Association of Colleges and Schools Commission on Colleges

1866 Southern Lane
Decatur, Georgia 30033-4097

Telephone 1-404-679-4500

www.sacscoc.org

All other inquiries should be made directly to Union College:

310 College Street, Barbourville, KY 40906

Telephone: (606) 546-4151

www.unionky.edu.

Union College Admissions Office: (800) 489-8646

Union College is accredited by the Kentucky Education Professional Standards Board and approved by the University Senate of the United Methodist Church.

The baccalaureate degree program in nursing at Union College is accredited by the Commission on Collegiate Nursing Education, 655 K Street NW, Suite 750, Washington, DC 20001, (202) 887-6791.

Initial and advanced education licensure programs are accredited by the Division of Educator Preparation of the Kentucky Education Professional Standards Board, 300 Sower Blvd., Frankfort, KY 40601, (502) 564-4606.

Initial and advanced education licensure programs are approved as pre-candidates for certification by the Council for Accreditation of Educator Preparation, 1140 19th Street, Suite 400, Washington, DC 20036, (202) 223-0077.

Union College is authorized for operation as a postsecondary education institution by the Tennessee Higher Education Commission. To view a list of the Authorized Postsecondary Institutions, please visit the website of the Tennessee Higher Education Commission.

Degrees

Associate of Science, Bachelor of Arts, Bachelor of Science, Bachelor of Science in Nursing, Master of Arts, Master of Business Administration, Master of Science, Education Specialist

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Union College Overview

History of Union College

Union was founded in 1879, a hundred years after Daniel Boone blazed his Wilderness Trail through what would later become Barbourville, and at a time when survival – not higher education – was the top priority for most of the country. With years of planning, fundraising, and dedication, early pioneers – in collaboration with the United Methodist Church – established Kentucky’s first “college in the mountains,” its name reflecting their unity of purpose. Today, more than 65 percent of Union’s students call Kentucky home, many of whom belong to the first generation in their families to attend college.

Since its origin, Union College has provided students from throughout Appalachia, and all over the country, with a collegiate experience to ensure lifelong success. Union is grounded by four pillars that define our focus as an academic institution: service to each other and our communities, our Appalachian culture and heritage, a core affiliation with the traditions of Methodism, and the liberal arts academic experience. The four pillars highlight Union’s strengths, values, mission, and identity. Union serves each of its students with a sincere commitment to strengthen those pillars, to spark passion, and to inspire lifelong learning.

Mission, Vision, and Core Values

Mission Statement

Union serves the academic needs of a diverse student body in a dynamic, personal environment that promotes intellectual, spiritual, and physical enrichment of our campus community; the economic growth and health of our Appalachian region; and a just society.

Vision Statement

Union College is a nationally known community of learners whose graduates are distinguished contributors to the well-being of the individual, the economy, and the environment.

Core Values: C.I.R.C.L.E.S.

Celebration

We celebrate the unique gift each brings to our community and the successes of each person. We look for and recognize promise in others, in ourselves, in our region, and in the world.

Integrity

We strive to do what is right. We promote integrity and collaboration by actively listening, sharing information, and being honest.

Responsibility

We take responsibility for our own success and failure and for our role as global citizens.

Civility

We advocate civility in all our interactions. We show respect for each other and hold ourselves and others accountable.

Lifelong Learning

We embrace the love of discovery and foster collaborative, connected, and active lifelong learning.

Engagement

We promote leadership and service as our civic responsibility. We strive to become servant-leaders. We honor, and are active participants in, the life of our home region and beyond.

Spirituality

We encourage the spiritual quest. We challenge each other to discover, intellectually articulate, and embrace a life-affirming spiritual faith and/or philosophy of life.

C.I.R.C.L.E.S. Ceremony and Tradition

New students begin their journey at Union College with a ceremony that highlights each of the College's core values and culminates in a faculty, staff, or community member presenting each new student with a medallion. As they prepare to graduate, students complete the circle by presenting the medallion to someone who encouraged and supported them during their college career.

Student Code of Conduct

Becoming a student at Union College means becoming part of a community. The expectations are high, and it is important that each member of the community strive to uphold the Core Values of the College by assuming personal responsibility in all relationships and empowering others to be honest and respectful.

The Dean of Students serves as the chief judicial officer for social and community discipline.

Complete information about Union College's social and academic conduct codes are found in the [Student Handbook](#), which serves as a companion to this catalogue.

Academic Code of Honor

Union College expects a high standard of academic integrity from all members of the campus community. Academic dishonesty, such as plagiarism, unauthorized collaboration, or cheating violates the spirit of a learning community and will not be tolerated.

The Provost is the chief academic officer for the College.

Learn more about academic integrity in the Academic Policies section of this catalogue.

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2023-24 Academic Calendar

The 2023-2024 Academic Calendar can be found at [Academic Calendar 2023-2024 Final 12.14.22.pdf \(cdn-website.com\)](https://cdn-website.com/Academic%20Calendar%202023-2024%20Final%2012.14.22.pdf).

Inclement Weather Policy

For information about weather delays or closures, please use one of the resources listed below. Each will be updated or notified by 6:30 am for day classes or 3:00 pm for evening classes, per our inclement weather policy. Visit either the official Union College Facebook or Twitter page to read about any inclement weather notifications and updates, check your Union email for inclement weather notifications, or call the Union College Hotline (606-546-1790) to hear a recording about any inclement weather notifications.

It is Union College policy to send emergency notifications, including inclement weather notifications, as text messages to cellular devices for all students on campus.

Should the College open with a two-hour delay, the class following schedule will be in effect:

Monday/Wednesday/Friday

Normal Class Time:

8:00-8:50
9:00-9:50
10:00-10:50
11:00-11:50
12:00-12:50
1:00-1:50
1:00-3:00 Labs
2:00-2:50
2:00 Labs as needed
3:00-3:50

Delayed Schedule:

10:00-10:40
10:50-11:30
11:40-12:20
12:30-1:10
1:20-2:00
2:10-2:50
2:10-3:30
3:00-3:40
3:00 Labs as needed
3:50-4:30

Tuesday/Thursday

Normal Class Time:

8:00-9:20
8:00-10:20 Labs
9:30-10:20
10:30-11:50
12:00-1:20
1:30-2:50
2:00 Labs as needed
3:00-4:20

Delayed Schedule:

10:00-11:00
10:00-12:00 Labs
11:10-12:00
12:20-1:20
1:30-2:30
2:40-3:40
3:00 Labs as needed
3:50-4:50

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Admissions Information

Enrollment decisions are based on a student's potential to succeed and to contribute to the Union College community through academic, social, and civic involvement. It is the policy of Union College to admit students based on merit, qualifications, and character. Union College does not discriminate on the basis of sex, race, color, disability, age, national or ethnic origin, religion, sexual orientation, or veteran status in the admission of students. Further, Union College provides all admitted students equal opportunity to obtain a high-quality education through a process that includes high standards and a commitment to personal attention.

Union College processes applications on a rolling basis. An application is considered for admission once all required items have been received. Admission to Union College does not grant automatic admission into all degree programs. Some programs require a separate application process and have more rigorous admission criteria. For more information on admission to [teacher education](#) and [nursing](#) programs, see the program descriptions in this catalogue.

Test Scores

Submission of ACT or SAT scores is optional but recommended. Information about the ACT and SAT is available in the Office of Admissions, including a schedule of test dates and locations. The Union College ACT code is 1552, and the SAT code is 1825. We currently do not require or consider the writing assessment for either the SAT or ACT.

Advanced Placement and International Baccalaureate

Students who have scored at least a three (3) on one or more of the Advanced Placement tests may receive credit and/or advanced placement for their test scores. The Office of the Registrar will determine the credit and/or placement to be awarded.

Union College recognizes International Baccalaureate (IB) level work in the admission process and will grant credit for examination scores of 4 or better on higher-level courses only. IB Certificate recipients will receive one (1) course credit (3 semester hours) for each higher-level score of 4 or better. No credit is given for subsidiary level examinations.

Application Submissions

Applications for admission to Union College may be submitted online at [Apply | Union College \(unionky.edu\)](https://apply.unionky.edu) or sent via mail, email, or fax.

Union College Office of Admissions

310 College Street, Box 5
Barbourville, KY 40906
Phone: 606-546-1750

Fax: 606-546-1769
Email: [Admissions @unionky.edu](mailto:Admissions@unionky.edu)

Applying as a First-Year Student

Students who have graduated from high school or received a GED certificate but have not attended any college or university are considered first-year students. Students who have taken dual-credit courses in a high school setting will receive college credit for their dual-credit coursework, but they must apply as first-year students and are not excused from first-year orientation requirements.

Requirements to Complete the Admission Process

- A completed application for admission.
- An official high school transcript computed on a 4.0 scale or official GED score report form.
- An official ACT or SAT score. (Standardized test scores are optional, but those who do not submit scores will be conditionally accepted. See below for details. To be considered for additional academic scholarships, students should submit SAT or ACT scores.)

Standards for Full Admission

- Students may be accepted to Union College at any time during their senior year, so students are strongly encouraged to apply early. All students admitted pending completion of their high school program are required to submit an official final high school transcript before any admission is final.
- Students must have graduated, or will have graduated before time of enrollment, from an accredited high school and earned a minimum cumulative high school grade point average (GPA) of 2.0 on a 4.0 scale, or they must have received a General Equivalency Diploma (GED).
- Students must have submitted a minimum ACT composite score of fifteen (15) or an SAT combined score of eight hundred sixty (860) on the Critical Reading and Mathematics components of the exam.
- Students must have the required twenty-two (22) high school credits as required by the Kentucky Pre-College Curriculum.
 - We recommend English (four [4] units), Mathematics (three [3] units), and Laboratory Science (two [2] units). In addition, the study of a foreign language is encouraged.
- Applicants authorize the release of their high school transcripts by signing the application; however, it is the student's responsibility to contact the high school to request that an official, final transcript be sent to the Union College Office of Admissions.
- A non-refundable enrollment deposit of \$100 is to be paid prior to registering for classes. This amount is credited to a student's account upon matriculation.

Conditional Acceptance

Students who do not accept ACT or SAT scores or who do not have the minimum scores may be accepted conditionally.

Students whose high school GPA is below 2.0 will be asked to submit an essay for consideration for conditional acceptance.

Applying as a Home-Schooled Student

Union College welcomes applications for admission from students who have completed their secondary school education in a home-schooled environment.

Requirements to Complete the Admission Process

- A completed application for admission.
- Official ACT or SAT score report forms, submitted directly from the testing agency. (Standardized test scores are optional, but those who do not submit scores will be conditionally

accepted. To be considered for additional academic scholarships, students should submit SAT or ACT scores.)

- Complete and notarized secondary school record and transcripts (including a grading scale).
- The academic calendar (August/September, May/June, or other) outlining student's attendance.

Standards for Full Admission

After submitting additional materials for the admissions process, the same standards for full admission are required as for any first-year student (see above).

Applying as a Transfer Student

Students applying for admission to Union College who have received college credit from other colleges or universities after graduating from high school are considered transfer students. Students transferring to Union during their first semester at another institution may be accepted based upon their high school transcript and their ACT or SAT test scores.

Requirements to Complete the Admission Process

- A completed application for admission.
- Official transcripts from all colleges/universities attended.
- An official high school transcript if the student has completed fewer than twenty-four (24) semester hours from a regionally accredited institution.
- An official ACT or SAT score is recommended if the student has completed fewer than twenty-four (24) semester hours from a regionally accredited institution. To be considered for additional academic scholarships, students should submit SAT or ACT scores.

Standards for Full Admission

- Student must be in good standing and eligible to return to previous institution.
- Prospective transfer students who do not meet the expected requirements will be reviewed by the Admissions Committee on an individual basis to determine acceptance. The Admissions Committee reserves the right to accept students on a conditional basis or to deny admission.

Union College will record a summary of transfer credits, indicating the total number of hours accepted. Union accepts only transfer work in courses with a grade of "C" or above. Eighty-one (81) semester hours is the maximum number of hours that will be accepted from a two-year institution.

Transfer credits will be accepted at the level of the initiating institution. Therefore, if students transfer from a two-year institution, they must accumulate/earn at least 39 semester hours in Union College course work, at the 300 level or above, to be eligible for graduation. Thirty of the last 36 credit hours must be satisfactorily completed at Union College to be eligible for graduation.

The Office of the Registrar will evaluate transcripts from other colleges. Courses taken at other colleges that closely match courses in Union's curriculum will substitute for Union courses. Otherwise, the student will receive elective credit for transferred coursework. For more information on transfer credit, see the Academic Information and Policies section of this catalogue.

Applying as an International Student

Students applying for admission to Union College who are not citizens of the United States and who are not classified by the U.S. Citizenship & Naturalization Service (USCIS) as residents of the United States are considered international students.

Requirements to Complete the Admission Process

- A completed application for admission.
- Official statement of financial support form (provided by Union College), serving as evidence that the student's family or sponsors has the necessary financial support throughout his/her studies at Union College.
- English language proficiency is required for all international students, and English language proficiency is subject to review by the Admissions and Academic Standing Committee. All international applicants whose home country's primary language is not English must submit one of the following:
 1. Official TOEFL or DuoLingo test score.
 2. Completion of an approved ESL English language program.
 3. An official transcript showing a grade of "C" or better in freshman composition courses from an accredited college or university in the U.S.
 4. An official transcript from an accredited four-year college or university in the U.S. confirming receipt of a bachelor's or master's degree.
- Students with SAT or ACT scores should submit the scores to be considered for additional academic scholarships.
- Student-athletes who completed their education outside the U.S. must have their credentials evaluated by the NAIA InCred program which will provide Union College an official evaluation of academic equivalence. More information is available at www.InCredEvals.org. General students (non-athletes) must have their credentials evaluated by World Education Service (WES) (www.wes.org).

When an international applicant has been admitted, the College will submit the form I-20. Students using an I-20 issued by Union College are obligated to attend Union College for at least one academic year. The student must be on campus no later than the first day of classes and must remain in a full course of study (at least 12 semester hours per semester).

To Complete Final Admission

After official notification of acceptance to the College, all new students enrolling in traditional campus-based courses are required to complete the following steps:

- All final official transcripts must be received. It is the student's responsibility to contact the high school or last attended college/university to request that an official, final transcript be sent to the Union College Office of Admissions.

A non-refundable enrollment deposit of \$100 is to be paid prior to registering for classes. This amount is credited to a student's account upon matriculation.

Applying as a Union Online Student

Union College offers fully online majors in

- Business Management
- General Business
- General Studies
- Law Enforcement
- Substance Abuse Counseling
- RN to BSN

Online minors are available in Business Management, Marketing, and Religious Studies, and certificate programs in Chemical Dependency Counseling and Social Media Management. For more information, see the program descriptions in this catalogue or contact the Admissions Office.

All online programs are affordable, convenient, and feature Union's personal connection. The online format is user friendly, and technical support is available 24/7. Undergraduate online courses are taught during six eight-week terms each year (two terms during each regular semester and two summer terms). This allows learners to accelerate through a degree plan in order to accomplish their education and career goals.

Students applying for admission to Union Online may apply online by completing the Union Online application at [Applications | Admissions | My Union \(unionky.edu\)](#). Those who wish to complete campus-based undergraduate programs should complete a transfer student application.

Admission Process for Union Online

- Complete the Union Online Application.
- Provide documentation of high school graduation or GED.
- If applicable, provide official documentation of military training, other specialized training, and standardized examinations including DD-214, and CLEP / AP transcripts.
- Provide official, sealed transcripts of all attempted credit from previously attended colleges and universities.

Up to 81 credit hours will be accepted from a two-year institution. Up to 90 credit hours will be accepted from all sources. Union accepts only transfer work in courses with a grade of "C" or above. Students must have at least a 2.0 GPA on a 4.0 scale on all work from previous institutions and must be eligible to return to the previously attended institutions in good standing.

Transfer credits are accepted at the level of the initiating institution. Therefore, if students transfer from a two-year institution, they must accumulate/earn at least 39 semester hours in Union College course work, at the 300 level or above, to be eligible for graduation. Thirty of the last 36 credit hours must be satisfactorily completed at Union College to be eligible for graduation.

Union College will record a summary of transfer credits, indicating the total number of hours accepted and the quality point average at the sending institution.

Program and Graduation Requirements

- Complete minimum of 120 semester hours, including courses in the Liberal Education Core and all Major requirements.
- Maintain an overall GPA of at least 2.0.
- Participate in all College assessment activities.

Additional Admissions Information

Dual-Credit Program

Juniors and seniors in high school may attend classes at Union College. Students may enroll for a maximum of six (6) hours per semester. To apply to the high school special program, students should submit the following:

- A completed application for admission.

- An official high school transcript showing the student has earned at least a “B” average.
- An ACT score report showing the student has a composite score of at least fifteen (15) and sub-scores that indicate college readiness (or equivalent SAT scores).

Visiting Students

A student attending another college or university may apply as a visiting student to Union College for a specific period. Those seeking admission as visiting students must submit a completed application for admission. Since visiting students are not pursuing a degree from Union, they are not eligible to receive financial aid through Union College.

Credit for Prior Learning

Some students come to Union with an extensive range of experience and training, and Union recognizes that not all learning has resulted from classroom attendance. For more information on alternative ways of earning credit, either prior to admission or while enrolled as a student, see the [Academic Information and Policies](#) section of this catalogue.

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Campus Community

A comprehensive Student Handbook serves as companion to this catalogue. The handbook is available on the College's website. See the [Student Handbook](#) for more detailed information on campus life, housing, and policies.

Joining the Union Community

Confirmation

All students are required to confirm their registration at the beginning of the fall and spring semesters. Students have several days at the beginning of each semester to confirm registration. Any student who fails to confirm his/her registration within the specified time frame will be withdrawn from classes and will incur a \$100 late confirmation fee.

As an added convenience, students may get identification cards, parking permits, email address, campus mailbox, etc. during confirmation.

Email Policy

All official electronic communications with Union College students will be sent through the unionky.edu mail address system. All official information, including but not limited to faculty-student communications, student billing, registration/advising, academic/administrative, financial aid, student development, and student support services information sent to each student's assigned Union College email address, will constitute official notice. The College accepts no responsibility for any forwarding of email that students may choose to undertake from their official Union College email accounts. Union College is responsible only for ensuring that official email is sent out to those student email accounts that are maintained by the College. All students are responsible for monitoring their Union College email accounts frequently (preferably daily).

Union College Identification (I.D.) and Address Requirements

Every Union College student must maintain a current address listing with the Student Development Office for emergency purposes and must be prepared to show a current Union College I.D. card on request. Identification cards are issued during fall and spring confirmation. ID cards are used for access to Cafeteria meal plans, Cafeteria flex dollars, building/room access, and printing access.

Campus Housing

There are a variety of housing options available to Union College students. For freshman residents, the College provides traditional double occupancy rooms. Upper class students have a variety of additional housing options to choose from including suite-style apartments, single room apartments, and houses.

Undergraduate Housing Policy

The College requires that all unmarried full-time undergraduates under the age of 20 with no dependent children live on campus unless they fall into one of the categories described below or their application to live off campus is accepted (see below). Part-time students (less than 12 credit hours) and fully online students are not allowed to live on campus.

Commuter Student Policy

Commuter students are exempt from the housing policy if they are aged 24 or older, are married or have dependent children, or are living with parent(s) or legal guardian(s) who reside in Knox, Clay, Bell, Whitley, Laurel, or Harlan counties.

Transfer Student Housing Policy

Approved transfer students who have at least thirty (30) credit hours (accepted by Union College) are exempt from the on-campus housing policy.

Requirements for Living Off Campus

Students who are under the age of 20 by the start of a semester must apply for off-campus housing status. Applications are due by August 1 for the fall semester, and January 1 for the spring semester. To be eligible, a student must meet the following criteria:

- Students with fewer than 60 credit hours must have a minimum 3.25 cumulative GPA, and students with more than 60 credit hours must have a minimum 2.75 cumulative GPA.
- As part of the off-campus housing application, the student must complete an itemized budget.
- Students under the age of 18 must provide a letter from a parent supporting their request to live off campus.

Important Notes

- Moving off campus will likely affect financial aid. Students are encouraged to check with the Financial Aid Office prior to making plans to move.
- Students who do not apply or who do not receive approval to live off campus, will be charged and will be expected to pay the full amount for room, and, in some cases, board, appropriate to their housing privilege (traditional or apartment).
- Institutionally funded financial aid, grants, and scholarships are available to those who adhere to the College's housing policies. Failure to adhere to policies could result in the loss of institutional aid.
- Any student approved to live off campus is automatically removed from the reservation list for a resident hall room or apartment.
- Once approved for off-campus living, it is not necessary to reapply.

Campus Life

Student Development Office

The mission of the Student Development office is to build a learning environment that encourages and challenges students. The Student Development staff are committed to providing outstanding services to the campus community that focus on student learning initiatives such as leadership development, service, teamwork, and personal and community development.

Students are encouraged to view the many options for intellectual, spiritual, social, service, and physical activity as vital opportunities for acquiring range in personal development. Students are also urged to seek a healthy balance in their campus involvement to maintain high levels of performance and success, in both academics and other facets of campus life.

Student Organizations

Union College has organizations and activities that provide leadership and learning opportunities and allow students to explore a variety of interests. Options include academic support and recognition (honor

societies), community service, campus programming and activities, student government, spiritual development, wellness, wilderness/environmental, band, vocal ensembles, and theater.

Intercollegiate Athletics

Union College is a member of the Appalachian Athletic and Mid-South Conferences and the National Association of Intercollegiate Athletics (NAIA). The Union College Athletic Department is committed to the retention and graduation of all student athletes. The Athletic Department strives to operate in a first-class manner and promote the equality of all athletic programs. Union College Athletics emphasizes the core values of the NAIA's Champions of Character Program: respect, responsibility, integrity, servant leadership, and sportsmanship. Union College encourages student athletes to pursue excellence and develop the mental, physical, and technical skills to achieve lifelong academic and athletic success.

The College offers a variety of competitive intercollegiate sports for men and women. Women's varsity sports include archery, basketball, bowling, cross country, golf, soccer, softball, swimming, tennis, track and field, and volleyball. Men's varsity teams compete in archery, baseball, basketball, bowling, cross country, football, golf, swimming, tennis, and track and field. Additionally, Union offers co-ed varsity cheerleading as well as various junior varsity teams for men's and women's sports.

Intramural Activities

Union strives to maintain a "sports for all" intramural program. Activities include flag football, basketball, sand volleyball, indoor soccer, softball, table tennis, video games, volleyball, and more. The intramural organization is, in general, made up of men's, women's, and co-ed independent teams. The program includes both team and individual sports. Everyone is encouraged to take part.

Convocations

Several times a year, Union hosts convocations to gather its community together for reflection and dialog. There are opening convocations at the beginning of each semester and a spring convocation to recognize outstanding student achievement. All students are strongly encouraged to attend convocations. Additionally, there are optional events such as lectures, concerts, and theatre productions.

Health Services

Located in Pfeiffer Hall, Union College's Health Center offers limited health services to current students. Operating hours are established at the beginning of each semester. The Health Center provides confidential visits with the Campus Nurse, who offers a variety of services including treatment for minor illnesses and injuries, vaccines, and other health-related services as needed. Referrals are made to local healthcare providers and medical facilities in the case of more serious issues. Special health conditions may be confidentially disclosed to the Dean of Students.

Counseling and Support Services

Union College takes seriously its responsibility to provide for the diverse needs of its students. For this reason, the College has established a network of counseling and support services in the following areas: academic advising, behavioral health counseling, career planning and placement, and spirituality. Additionally, members of the Student Development staff are prepared to assist students with special problems that may arise and to connect them with the best available source of assistance in the College and local communities.

On-campus counseling services are available for all undergraduate and graduate students. Typically, students seek counseling for a variety of reasons: a recent stressor, a long-standing problem that is interfering with their life, prevention of a problem, or an opportunity for self-growth and exploration.

Financial Information

College Expenses

The academic year is divided into two regular semesters, fall and spring. Each semester also has two sub terms. The College also offers courses during summer sessions and during a winter term. Applicable tuition and fees are as follows and are effective as of July 2023.

Commuter Rates 2023-24

	Semester	Year
Tuition	\$ 14,368.50*	\$ 28,737.00
Comprehensive Fee	\$ 1,104.50	\$ 2,209.00
Total	\$ 15,473.00	\$ 30,946.00

*This tuition rate entitles student to take up to 18 credit hours per semester. With permission from the Provost, students may take up to 21 hours. Students are charged the hourly rate (see below) for additional credit hours.

Traditional Residential Student 2023-2024

	Semester	Year
Tuition	\$ 14,368.50*	\$ 28,737.00
Comprehensive Fee	\$ 1,104.50	\$ 2,209.00
Laundry Fee		\$ 100.00
Annual Housing Fee		\$ 50.00
Traditional Room	\$ 1,771.00	\$ 3,542.00
Traditional Meal Plan	\$ 2,359.50	\$ 4,719.00
Total	\$ 19,603.50	\$ 39,307.00

*This tuition rate entitles student to take up to 18 credit hours per semester. With permission from the Provost, students may take up to 21 hours. Students are charged the hourly rate (see below) for additional credit hours.

Housing Options 2023-2024**

	Semester	Year
Traditional Housing	\$ 1,771.00*	\$ 3,542.00
Stewart Apartment	\$ 2,403.50	\$ 4,807.00
College Courts	\$ 2,403.50	\$ 4,807.00
Union Courts	\$ 2,403.50	\$ 4,807.00
Manchester	\$ 2,403.50	\$ 4,807.00

*Prices are for double-occupancy rooms. For information on availability of single rooms and additional fees, contact the Housing Department at housing@unionky.edu.

**Vacation periods are not included in the quotes for housing. Traditional student housing is closed during vacations and other periods noted in the undergraduate calendar. Apartment-style student housing is only closed during the summer. The College reserves the right to host visiting groups in all college housing during the summer.

Meal Plans 2023-2024*

	Semester	Year
Tradition Meal Plan 19/23	\$ 2,359.50**	\$ 4,719.50
16 Meal Plan	\$ 2,178.50	\$ 4,356.00
Commuter Plan 5 Meal	\$ 665.00	\$ 1,331.00

*Vacation periods are not included in the above quotes for meals. Food service is closed during vacations and other periods noted in the undergraduate calendar.

**Charges for meal plans are subject to change without notice, pending contract agreement with the food service provider.

Part-time Tuition Rates 2023-2024

Tuition-Undergraduate	\$ 345.00 per hour	Effective Fall 2023
Undergraduate Online Course fee	\$ 25.00 per hour	Effective Fall 2023
Tuition-Graduate	\$ 370.00 per hour	Effective Fall 2023
Tuition-Graduate Online Courses	\$ 370.00 per hour	Effective Fall 2023
Low Residency	\$ 550.00 per hour	Effective Fall 2023
Tuition – Nursing Program	\$ 225.00 per hour	Effective Fall 2023
Winter Term UG	\$ 250.00 per hour	Effective Fall 2023
Summer Terms UG	\$ 250.00 per hour	Effective Fall 2023

Other Costs That May Apply 2023-2024

Transcript	One free copy, afterwards \$5 per copy	Effective Fall 2023
Athletic Insurance	\$ 500.00 per year	Effective Fall 2023
Student Teaching Fee	\$ 150.00	Effective Fall 2023
Late Registration or Confirmation Fee*	\$ 100.00	Effective Fall 2023
Withdrawal Fee**	\$ 50.00	Effective Fall 2023
Books and Course Materials***	See course listings on MyUnion	

*Late registration fee may be waived by the Registrar for sufficient reason if permission is requested in advance.

**Students who withdraw from Union during a semester are charged a \$50 withdrawal fee.

***Tuition does not include the cost of books and other course materials. Many courses have required textbooks that students will need to purchase. Some courses include a small fee to cover the cost of additional materials. See the course listings on MyUnion for information about textbooks and course fees, if any.

Payment Policies

Payment Plan

The Union College Interest-Free Monthly Payment Plan, serviced by Union College, helps students and parents make education affordable. Paying monthly through current income and savings helps families limit borrowing and reduces the overall cost of education. The monthly payment plan is available to all families, regardless of financial need.

Currently there are three (3) available monthly payment plans:

Annual	12-Month Plan (May Thru April)
Fall	5-Month Plan (July through November)
Spring	5-Month Plan (December through April)

For more information, please contact Union College at (800) 489-8646, visit the Union College website at www.unionky.edu, or contact the Business Services Office at (606) 546-1200.

Financial Clearance

Full payment of an account or satisfactory financial arrangements for all charges must be made prior to registration. Students may not complete registration or attend classes until all fees and charges are paid or they have set up and are current with a payment plan. No payment plan is available for summer terms;

charges for summer terms must be paid in full by the date of registration. Any student who owes a balance on his or her account after August 30 (fall) or January 21 (spring) may be subject to withdrawal procedures.

Transcripts will not be released to students who are indebted to the College.

Should collection efforts become necessary, the student will be responsible for all costs of collection, including collection agency and attorney fees.

Finance Charge

A monthly finance charge of one and one-half percent (18% APR) will be added to unpaid balances on student accounts.

Institutional Refund Policy

A student is enrolled until he or she completes drop/withdrawal procedures. All refunds related to changes in enrolment status will be based on the date these drop/withdrawal forms are completed and returned to the Office of the Registrar. Tuition, room, and board charges will be refunded through the fourth week of a regular semester, in full or in part. Tuition refunds are based on the date on the official withdrawal form when signed by the Registrar. The following schedule applies to all students:

Before drop/add deadline	100% refund
Week 1 withdrawal	80% - less \$50 admin fee
Week 2 withdrawal	60% - less \$50 admin fee
Week 3 withdrawal	40% - less \$50 admin fee
Week 4 withdrawal	20% - less \$50 admin fee

No refund will be made after Week 4. Any part of a week will be treated as a full week.

For summer terms, winter-terms, and 8-week terms, students will receive a 50% refund through the end of the first week. No refund will be made after the first week.

Federal Refund Calculation

The 1998 amendments to the Higher Education Act (HEA) of 1965 (Section 484B), and subsequent regulations issued by the United States Department of Education (34 CFR 668.22), establish a policy for the return of Title IV, HEA Program grant, and loan funds for a recipient who withdraws. Union College does not have a leave of absence policy that would exempt any student from the requirements of the Return of Title IV Funds Policy.

Title IV Funds include the following aid programs:

Federal Pell Grant
Federal Supplemental Educational Opportunity Grant (FSEOG)
Federal Work-Study (FWS)
Federal Stafford Loan (subsidized and unsubsidized)
Federal PLUS Loan
Leveraging Assistance Partnership Grant (LEAP)

The percentage of the term completed is determined by dividing the total number of calendar days comprising the term (excluding breaks of five [5] or more consecutive days) into the number of calendar days completed.

The percentage of Title IV grant and loan funds earned is:

- up through the 60% point in time, the percentage of the term completed
- after the 60% point in time, 100%

The amount of Title IV grant and loan funds unearned is a complement of the percentage of earned Title IV funds applied to the total amount of the Title IV funds disbursed (including funds that were not disbursed but could have been disbursed, i.e., post-withdrawal disbursements). If the amount earned is less than the amount disbursed, the difference is returned to the Title IV programs. If the amount earned is greater than the amount disbursed, the difference is treated as a late disbursement, in accordance with the federal rules for late disbursements. Unearned funds, up to the total institutional charges multiplied by the unearned percentage of funds, are returned by the College. Institutional charges (costs) include tuition, room, and board. The federal Return of Title IV Funds policy requires that the federal aid be considered as first applied toward institutional charges, regardless of other non-federal aid received.

Funds Are Returned (As Credited in the Following Order)

Unsubsidized Stafford Loans
Subsidized Stafford Loans
Federal PLUS Loans
Federal Pell Grants
Federal Supplemental Educational Opportunity Grants (FSEOG)
Other Title IV funds for which a return of funds is required

Financial Aid

A student must be admitted to Union College before financial aid is processed. Eligibility for federal and state financial aid is determined by the Free Application for Federal Student Aid (FAFSA). The application is completed online www.studentaid.gov and is available beginning each year October 1. Students are encouraged to complete the application as soon as possible after this date. A new FAFSA will need to be submitted before each academic year a student intends to enroll.

Institutional Aid

Institutional scholarships are available for full-time undergraduate students seeking a bachelor's degree.

Athletic Scholarships: Athletic scholarships are available, and eligibility determined by the Coach. Amounts for these athletic scholarships vary.

Annual Merit Scholarships: High school grade point average determines the merit scholarship amount for first-time freshmen.

Union Distinction Scholarship: Union Distinction scholarships are awarded to first-time, full-time Kentucky students who demonstrate financial need by completing their FAFSA application. After all aid from other sources has been applied and the expected family contribution has been met, this scholarship covers the gap up to full tuition.

Requirements:

- The student must be a Kentucky resident.
- The student must be a graduate of a Kentucky public, private, or homeschool.
- The student must be an incoming freshman who has not enrolled in college after high school graduation.
- The student must meet half Pell Grant eligibility at \$4,000 expected family contribution.
- The student must enroll full-time (at least 12 hours per semester) and maintain full-time status each semester.
- The student must maintain a minimum grade point average of 2.0.

Sharp Scholarship: A full-ride scholarship, including tuition, room and board up to \$39,307, which is awarded based on high school GPA and ACT scores.

Trustee Scholarship: A full-tuition scholarship up to \$28,737, awarded based on high school GPA and ACT scores.

Presidential Scholarship: A scholarship up to \$27,500, awarded based on high school GPA and ACT scores.

Local High School Scholarship: A \$1,000 scholarship for students from Barbourville High School, Knox Central High School, or Lynn Camp High School who attend Union College. This award can be stacked on top of other academic or athletic scholarships.

Program Scholarship: Scholarships are available for choir, justice initiatives, spiritual life, and theatre. The amounts, qualifications, and expectations vary and are determined by the program directors. This award can be stacked on top of other academic or athletic scholarships.

Common Partner Scholarship: Students may receive up to \$2,000 per year in exchange for performing community service projects on campus. This award can be stacked on top of other academic or athletic scholarships. An application is required, and recipients are selected by the Dean of Students.

Federal Aid Programs

Pell Grant	Student must demonstrate financial need based on the FAFSA (Free Application for Federal Student Aid).
Federal Supplemental Educational Opportunity Grant (FSEOG)	Student must demonstrate financial need based on the FAFSA.
Federal Direct Loan	Loan types include subsidized and unsubsidized loans. Eligibility depends upon enrollment status and the FAFSA. Repayment begins after graduation, withdrawal, or movement to part-time enrollment status.
Federal Direct PLUS Loan	Eligibility is based on Cost of Attendance, less financial aid received. PLUS Loan repayments begin 90 days after the second disbursement.

Federal Work-Study Program	This employment program combines support from the federal government and the institution to supplement students' financial aid awards. Eligibility is determined upon completion of the FAFSA.
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State Aid Programs

Kentucky Tuition Grant (KTG)	Eligibility is based upon Kentucky residence and financial need determined upon completion of the FAFSA.
College Access Program (CAP)	Eligibility is based upon Kentucky residence and financial need determined by the FAFSA.
Kentucky Educational Excellence Scholarship (KEES)	Earned upon completion of high school in Kentucky.

Other Loans

The Russell and Alice M. Hicks Student Loan Fund	The late Russell and Alice Hicks, of New Albany, Indiana, established an endowed student loan fund at Union College through an estate gift.
The Charles E. Schell Foundation Student Loan Fund	This loan fund was established in 1993 by The Charles E. Schell Foundation. Recipients of these interest-free student loans are selected by Union College based on prescribed criteria established by the Foundation.
The Bryan W. Whitfield – Kentucky Jellico Coal Company Memorial Fund	This endowed student loan fund was established by Bryan W. Whitfield, Jr., of Harlan, Kentucky, in memory of his father, Bryan W. Whitfield, founder of the Kentucky Jellico Coal Company.

Satisfactory Academic Progress

Federal regulations require that a student make satisfactory academic progress (SAP) to remain eligible for financial aid. To qualify for financial aid, a student must maintain a minimum cumulative grade point average, successfully earn at least two-thirds of the credit hours attempted, and earn a degree within a maximum time frame. SAP is measured at the end of each semester.

- Cumulative Grade Point Average. Students must meet the minimum GPA listed below to be eligible for federal and state aid.

Hours Attempted	Minimum Cumulative GPA
1-29 hours	1.80 GPA
30-59 hours	1.90 GPA
Above 60 hours	2.00 GPA

- Cumulative Credit Hour Completion Rate (Pace). Students must successfully complete 67% of the credit hours they attempted each semester. For hours to count as earned the student must receive a grade of A, B, C, or D. Attempted hours include repeated courses, withdrawals, and incomplete or failed classes.

- Maximum Time frame. The maximum number of credit hours attempted cannot exceed 150% of the required hours for a student's program. Union requires 120 credit hours for a bachelor's degree. Therefore, a student is eligible to receive financial aid for up to 180 attempted credit hours.

Students who do not meet satisfactory academic progress will be placed on financial aid warning for a semester. They will continue to receive financial aid while on warning. Students who do not meet satisfactory progress requirements by the end of the warning semester will be placed on financial aid suspension.

Students who are placed on financial aid suspension may appeal the decision. An appeal form will be emailed and mailed to all students placed on suspension. If the appeal is approved, the student will be placed on probation for the semester and will be eligible for financial aid. If the appeal is denied, the student will need to take classes at their own expense and get back into good standing. Once suspended students are back in good standing, they will be eligible to regain their financial aid.

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Academic Information and Policies

General Policies

Academic Calendar

Union College operates on a semester system. The fall semester begins in late August and ends in early December. The spring semester runs from January to early May. Each semester also has two eight-week sub terms. In addition to the regular semesters, there are two seven-week summer terms and a four-week winter term. The College ALPS (Appalachian Local Pastor School) also offers classes during summer sessions.

A detailed Academic Calendar is posted on MyUnion. Students should consult the Academic Calendar for information on the start and end dates of terms, exam periods, vacation dates, and deadlines for adding, dropping, or withdrawing from courses.

Late Arrival Policy

Union College students are expected to be on campus by the first day of classes each term. Faculty are not expected to make accommodations for students who arrive after the first day of classes. Students who do not attend class during the first week of the semester risk being dropped from the course. Students should not expect to be added to classes after the drop/add date for each term. Students enrolled in online courses (8- or 16-week format) must access the course and complete the initial assignment as directed by the faculty prior to the last day to drop a course for each term (See Academic Calendar). Students should not expect to be added to classes after the drop/add date for each term. Students who have not accessed the course by the drop date are at risk of being dropped from the course.

Academic Integrity

Union College expects a high standard of academic integrity from all members of the campus community. Academic dishonesty, such as plagiarism, unauthorized collaboration, or cheating, undermines trust and the academic integrity of each student and of the institution. This violates the spirit of a true learning community and will not be tolerated.

Examples of academic dishonesty include:

1. Plagiarism - taking words, sentences, ideas, and so on, from another and presenting them as one's own. This includes any improperly documented sources, including electronic or online papers, presentations, and the like.
2. Writing papers for other students
3. Cheating (using illegal notes, copying, text messaging, etc.) on examinations
4. Unauthorized collaboration - unauthorized assistance with written or oral material.

Incidents of academic dishonesty will be dealt with by the individual professor in collaboration with the appropriate Dean and the Provost. All incidents of academic dishonesty will be reported in writing to the Office of Academic Affairs. The professor may impose any number and degree of penalties, including administering another assignment or assigning an "F" for the course. The Provost may suspend any student from the College for academic dishonesty. Students found guilty of academic dishonesty will not be eligible for academic honors.

Students have a right of appeal and of due process. Procedures may be found in the student handbook.

Union College Experience (UCE)

Union College requires all full-time incoming freshmen and transfer students with fewer than 12 credit hours (excluding dual credit hours) to take the Union College Experience 100 course. Classes for this one-hour course meet the week prior to the start of regularly scheduled classes then weekly throughout the semester. Students transferring in with between 12 and 23 credit hours (excluding dual credit hours) will take the Union College Experience 102 course. The goal of these courses is to help students achieve academic success and adjust to the challenges of college life.

Classification of Students

Year	Description
Freshman	Fewer than thirty (30) semester hours
Sophomore	Thirty (30-59) semester hours
Junior	Sixty (60-89) semester hours
Senior	Ninety or more (90+) semester hours

Disability Accommodations

Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course should contact one of the following:

- Director of Student Support Services, Sharp Academic Center, Room 3119, phone number (606) 546-1259 or
- The Education Retention Specialist, Sharp Academic Center, Room 3110, phone number (606) 546-1258.

Students with disabilities should request accommodations prior to or early in the semester. Each request for accommodations will be examined on a case-by-case basis to determine eligibility. Students should NOT request accommodations directly from a professor or instructor. Professors and/or instructors are not authorized to make accommodations without approval from the Director of Student Support Services.

Course Load

The normal undergraduate course load is fifteen-sixteen (15-16) hours per semester. Students may register for a maximum of eighteen (18) hours of credit per semester at the standard tuition rate. With approval from the Provost, students with a GPA of 3.0 or higher are permitted to register for up to twenty-one (21) hours per semester at an additional charge per credit hour.

The maximum course load for each summer session is seven (7) semester hours. Six (6) hours is the maximum course load for the winter term. All exceptions must be approved by Provost.

International Student Enrollment

Federal regulations require undergraduate students to enroll in a “full course of study” to maintain their status in the United States. For undergraduate students, a full course of study is 12 credit hours – or full-time status – per semester. Regulations do permit certain exceptions to the full course of study rule and requests must be submitted in writing to the PDSO or Primary Designated School Official. Contact the Admissions Office for further information.

Class Attendance

Class attendance is required. Students are responsible for all work from the first day of class and are expected to attend all meetings of all classes for which they are registered. All faculty members are

expected to keep accurate records of class attendance. Class absences due to circumstances beyond the control of the students will be excused by the instructor if the request is made within one week of return to campus. An excused absence does not excuse students from class work or tests occurring during their absence. Students should make arrangements with the instructor to complete missed assignments and take tests.

Class work and tests missed by the student while participating in a College sponsored activity may be made up only when the faculty sponsor of the activity notifies the Office of Academic Affairs, by submitting the official absence list, via email to: absence@unionky.edu.

Military Service Policy

Union College will make every accommodation possible for students who are called to active military duty. Every effort is made to enable these students may to re-enter without prejudice and with minimal financial difficulties (established November 30, 2003).

Course Numbering System

Courses numbered 100 or 200 are intended primarily for lower-division students and generally do not have prerequisites, while 300- and 400-level courses are usually reserved for upperclassmen. Freshmen or sophomores wishing to enter 300- or 400- level courses should consult with the appropriate School Dean for permission to enroll. The 500- and 600- level courses are restricted to graduate students. Courses with hyphenated numbers (101-102) are used when the first semester is a prerequisite to the second semester.

Reserved Course Numbers

Some special numbers are reserved for specific types of courses or studies. They may be used by any department. Courses with these numbers may not be listed in this catalogue, and registration may require permission from the instructor.

Number	Description
1 – 99	Non-credit, special-interest courses and transitional courses
181, 281, 381, 481	“Special Topics” courses: classes developed on a one-time or experimental basis, or a special, innovative class
282, 482	Special workshops, credit or non-credit
285, 485	Experiential Education: study abroad, internships, cooperative work
287, 487	Field Practicum in specialized areas
285, 485	Independent Study: individualized study or research on approved topics not covered in Union’s standard curriculum; may be repeated on different topics.

Transitional Courses

Any required courses numbered below 100 will be counted toward full-time academic status and for athletic eligibility purposes. However, hours earned will not count toward the required 120 hours for graduation, and grades in these classes will not be used when calculating semester or final GPA.

Course Rotation

Most course descriptions in this catalogue indicate the semester the course is typically offered: (F) for fall semester, (S) for spring semester, and (Sum) for summer session. Some regular-year courses are offered during the summer sessions, but this is not guaranteed. High-enrollment courses are offered every semester, but many other courses are taught only once a year or once every other year. Some

specialized courses are only offered occasionally or when requested by students. Students should work with their advisors to develop a plan that ensures they will graduate on schedule. Withdrawing from required courses could result in delayed graduation if the courses are not offered frequently.

Assessment

Union College continuously assesses its academic programs and other aspects of college life. Assessment is not only required for accreditation by SACSCOC, but it is also extremely important in improving the quality of Union College's academic and non-academic programs. Students are expected to participate in assessment processes when requested. This may include responding to surveys and questionnaires, taking tests, and completing course assignments that are used for assessment purposes. Questions related to assessment should be directed to the Director of Institutional Effectiveness and Research or the Provost.

The Grading System and Grade-Related Policies

Quality Points and GPA

Students receive "quality points" based on their grades in courses. The higher the letter grade, the more points a student earns per semester hour (see table below). Quality points are used in calculation of a student's Grade Point Average (GPA).

A student's GPA is determined by dividing the total quality points earned by the total number of registered semester hours, minus the number of hours of Credit (as well as hours of Satisfactory or Pass) and recorded Incompletes. Failure or quality point deficiencies in any course completed at Union cannot be removed by transfer credit, correspondence work, or independent study. A grade can be replaced only by retaking the same course at Union.

The various grades that may appear on a student's transcript are summarized in the following table and explained in more detail below the table.

Grade	Description
A	Superior work, valued at four (4) quality points for each semester hour.
B	Above-average work, valued at three (3) quality points for each semester hour.
C	Average work, valued at two (2) quality points for each semester hour.
D	Inferior but passing work, valued at one (1) quality point for each semester hour.
F	Failure with zero (0) credits and zero (0) quality points for each semester hour. Failure to officially withdraw from a course also results in a grade of "F."
CR	Credit: A course has been satisfactorily passed. Credit is granted, but no quality points are assigned.
NC	No Credit: A course has not been satisfactorily passed. No credit is granted, and no quality points are assigned.
P	Pass: A course has been satisfactorily passed. Credit is granted, but no quality points are assigned.
S	Satisfactory: A course has been satisfactorily passed. Credit is granted, but no quality points are assigned.
U	Unsatisfactory: No credit is granted, and no quality points are assigned.
W	A student withdrew on or before the stated withdrawal date on the Academic Calendar. There is no impact on GPA.

I	Incomplete: The student has been unable to complete the required work of the course and, at the discretion of the instructor, is given additional time to finish the course.
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Plus and Minus Grades

A plus or minus may be added to a final letter grade and will appear on a student's transcript. However, plus and minus grades are not treated differently in calculation of a student's GPA. For example, a student earns three quality points per semester hour whether the recorded grade is a "B," a "B+," or a "B-."

Credit / No Credit

The purpose of Credit/No Credit is to provide students an opportunity to explore elective courses outside their major or minor without jeopardizing their GPA. When students opt to take a course for Credit/No Credit, they receive credit if they pass the course, but no quality points are entered in the GPA calculation regardless of the grade received. Failure (or a low grade) will not lower a student's GPA, nor will a good grade raise a student's GPA. This option does not apply to courses in the Liberal Education Core and any courses in a student's major or minor. It is available to students with at least sophomore classification and a GPA of 2.0 or higher. Credit/No Credit is also an option for transfer students of sophomore classification who have completed at least twelve (12) hours of satisfactory work at Union College.

A student may take no more than two (2) courses on a credit/no credit basis per academic year (July through June) and no more than two (2) courses in any single discipline. A maximum of fifteen (15) semester hours may be applied toward the bachelor's degree. A student must complete the Credit/No Credit form on MyUnion no later than the last date to withdraw from a course with a grade of "W." A grade of "D" or higher will be recorded as "CR," and a grade of "F" will be recorded as "NC."

Pass/Fail and Satisfactory/Unsatisfactory

In a few courses, students are evaluated on a pass/fail or satisfactory/unsatisfactory basis. For passing ("P") or satisfactory ("S") performance, students are awarded credit for the course, but no quality points are entered in the calculation of GPA. For unsatisfactory ("U") performance, students receive neither credit nor quality points. A failing grade in a pass/fail course is recorded as an "F," and *is* factored into calculation of GPA.

Incomplete Policy

At the discretion of the instructor, a temporary grade of Incomplete (I) may be given when a student has been unable to complete the required work for a course. A grade of "I" submitted to the Office of the Registrar must be accompanied by a written statement from the instructor that includes (1) why the "I" was given, (2) the requirements that must be met to remove the "I," and (3) the deadline for meeting these requirements. The instructor is responsible for sending a copy of the Incomplete contract to the student and submitting a grade change request to the Registrar when the student has completed the coursework. An Incomplete grade must be completed no later than six-months following the date it was issued. If the student has not completed the course by this date, the "I" will be changed to the grade of "F."

Withdrawal from Courses or from the College

At the beginning of each term, there is an Add/Drop period (see the Academic Calendar) during which students can make changes to their course schedules. Courses dropped during the Add/Drop period do not appear on a student's transcript. After the end of the Add/Drop period, students may withdraw from courses until the withdrawal deadline for each term (see the Academic Calendar). Courses from which a

student withdraws appear on the transcript with a grade of “W,” but a course withdrawal does not affect GPA.

Withdrawal does not occur automatically if a student stops attending a class. Rather, students must formally withdraw from courses through the Office of the Registrar. Graduate students may withdraw from a course online, but undergraduates must fill out a paper copy of the course withdrawal form and bring it to the Registrar’s office. The form is available on MyUnion or in the Registrar’s office. It is the responsibility of the student to complete the course withdrawal form and obtain the required signatures (student, advisor, and coach in the case of athletes). The form must be submitted to the Registrar’s office on or before the withdrawal deadline for each term. Students who fail to complete the withdrawal procedure will receive a grade of “F” for the term.

The last day to withdraw from the College or from all courses for a semester is also the last day to withdraw from a course with a grade of “W.” The date for such withdrawals is noted in the Academic Calendar available on the Academics page on the Union College website.

Examinations and Reports of Grades

Examinations are given at the close of each semester. A final exam schedule is published by the Office of Academic Affairs. Midterm and semester grades are reported by instructors to the Office of the Registrar and may be accessed by the student on MyUnion. Midterm grades are intended to provide information to students, advisors, and coaches about academic performance halfway through a semester. Only final grades become a part of the student’s permanent record and appear on a transcript.

Repeat Course Policy

Students may repeat a course taken at Union College for a maximum of three attempts. Additional attempts require approval from the Provost. The highest grade earned from the attempt(s) will be the grade recorded on the student’s transcript and used in calculating overall GPA. The grade replaced will remain on the student’s transcript but will be removed from GPA calculation. The student does not receive duplicate credit for the repeated course to be used toward graduation/total hours earned. This repeat course policy does not apply to those specific courses in which multiple enrollments are permitted, as outlined in the catalogue. For example, a choir course, which is one credit hour, can be taken multiple times. Some programs include courses that address a variety of special topics. Multiple registrations are permitted for these courses if the topics differ.

Grade Appeal

Students are entitled to rectify grievances related to grades. Students have one (1) year in which to contest any grades on their transcripts. After that time, the grade is permanent. Please consult the student handbook or contact the Office of Academic Affairs for additional information on the grade appeal process.

Enrollment in Fall/Spring 8-week Online Courses

Undergraduate students (those in residence on campus or commuters) may enroll in the accelerated 8-week online courses if they meet the criteria outlined below. Students may not exceed 9 credit hours of online course enrollment during a fall or spring 16-week semester. Any exceptions to this policy must be approved by the Provost.

GPA	Number of 8-Week Online Courses Permitted
1.99 or below	Enrollment in 8-week online courses is prohibited.

2.00 – 2.49	Enrollment in 8-week online courses is limited to one course per 16-week semester.
2.50 – 2.99	Enrollment is limited to one course per 8-week term, with a total of two 8-week online courses per 16-week semester, permitted.
3.00-4.00	Enrollment in 8-week courses is permitted up to the maximum of 9 credit hours. The 9 credit hours may not be taken in a single 8-week term. For example, a student may enroll in 6 credit hours during the Spring I term and 3 credit hours for the Spring II term.

Academic Honors

Union College recognizes excellent scholarship in several ways: the Dean’s List, the Presidential Laureates, and graduation with distinction or with program honors.

- **Dean’s List:** Undergraduate students who have completed at least twelve (12) hours in a given semester with at least a 3.33 GPA, no Incompletes for the semester, no grades of “C” or below, and no unsatisfactory (U) grades for the semester are eligible for the Dean’s List. This list is published after the fall and spring semesters.
- **Presidential Laureates:** Presidential Laureates are those students who meet all the requirements for the Dean’s List and achieve at least a 3.75 GPA for two (2) successive semesters, with at least twelve (12) hours per semester, no Incompletes, no grades of “C” or below, and no unsatisfactory (U) grades in either semester. The list of students designated as Presidential Laureates is published after the fall and spring semesters.
- **Degrees with Distinction:** There are three grades of distinction: cum laude, magna cum laude, and summa cum laude. These distinctions are conferred at graduation upon students who satisfy the following conditions of scholarship:
 - The distinction of cum laude is awarded to those students who have earned an overall average standing of 3.5 at Union.
 - The distinction of magna cum laude is awarded to those students who have earned an overall average standing of 3.75 at Union.
 - The distinction of summa cum laude is awarded to those students who have earned an overall average standing of 3.9 at Union.

Transfer students may receive distinction on completing sixty-four (64) semester hours at Union and satisfying the conditions of scholarship prescribed by the faculty, provided they also furnish such evidence of high scholarship in the institution from which they came.

- **Program Honors:** Students may also receive program honors at graduation. Requirements for these distinctions are set by individual academic programs. Published in each program’s section of the catalogue, requirements may include a specified cumulative GPA or major GPA, completion of a senior project, or some other indicator of outstanding academic achievement.

Academic Probation and Suspension

Students whose GPA falls below the following GPA and corresponding minimum semester hours will be placed on academic probation:

Standing	GPA
Freshman	1.80
Sophomore (30 hours)	1.90

Junior (60 hours)	2.00
Senior (90 hours)	2.00

Probationary students are monitored by the Admissions and Academic Standing Committee of the College. Students on academic probation have credit hour limitations (12-13 hours), and may be restricted in the courses they take, required to repeat courses in which low grades were earned, lose College financial aid, or be suspended from the College after an established period of time.

In addition to raising their GPA, students on academic probation are required to spend time each week in the Academic Resource Center (ARC) where tutors are available to provide support. Students on academic probation who have earned thirty (30) credit hours or fewer are required to spend a class period in the Academic Resource Center (ARC) three (3) days a week. Those who have earned at least thirty-one (31) credit hours are required to spend a class period in the ARC two (2) days a week. Failure to attend required ARC sessions may result in continued probation or suspension.

A student admitted to the College in good standing will receive notification of academic probation if the GPA is below the minimum required after the first semester. Notification of academic suspension will be sent to the student at the end of the second consecutive semester in which the cumulative GPA falls below the required minimum standard.

A student admitted to the College on academic probation will have either one or two semesters in which to meet the minimum academic standards. Failure to attain the required GPA at the end of the specified semester may result in suspension from the College.

A suspended student may appeal in writing within thirty (30) days of notice. Appeals should be sent to
The Vice President for Enrollment
Office of Enrollment Services, Union College
310 College Street, CPO-D-005
Barbourville, KY 40906

At the discretion of the Admission and Academic Standing Committee, a student may be suspended for two (2) semesters. To be readmitted to Union College, the student must reapply through the Office of Admissions. Readmitted students will be subject to restrictions as established by the Committee concerning the number of hours allowed and repeating of courses. Students readmitted after suspension from Union are readmitted on academic probation. Failure to attain the required cumulative GPA at the end of the readmitted semester following suspension may result in permanent dismissal from the College.

Academic Amnesty

Sometimes extraordinary life events prevent students from delivering their best academic performance. In these cases, students who have completed at least two consecutive full-time semesters at Union or at least twenty-four (24) part-time hours and who have a GPA of 2.0 or higher may petition the Office of the Registrar for academic amnesty. Petitions must be in writing and may be approved for one (1) semester only. If granted, credit will be given for grades of “C” or higher. Grades lower than a “C” will not be used for calculating the GPA during the term of amnesty. Transfer students who bring a GPA lower than 2.0 or who have received any form of academic amnesty elsewhere do not qualify for this option. Students who receive amnesty are not eligible for academic honors based on cumulative GPA.

Requirements for Graduation

Students must apply for graduation the semester before they plan to complete graduation requirements and may apply as soon as they have acquired the necessary credits to reach senior status.

Students must satisfy the following requirements to receive a bachelor's degree (BA or BS) from Union College:

- Complete the Liberal Education Core.
- Earn a minimum of one hundred twenty (120) semester hours, of which at least thirty (30) semester hours must be earned at Union College. Thirty (30) of the last thirty-six (36) hours must be earned at Union College.
- Earn an overall Union GPA of 2.00 and a 2.00 GPA in the major or minor fields of study, unless a specific program requires a higher GPA.
- Earn at least thirty-nine (39) semester hours in courses numbered 300 or above.
- Complete all requirements for the Bachelor of Arts or Bachelor of Science degree in a major area. Students can opt to major in more than one discipline and/or complete one or more minors in addition to a major. See descriptions of individual programs for specific requirements.

Union currently offers Associate of Science degrees (AS) in Substitute Teaching and Pre-Engineering. Students pursuing these degrees must satisfy the following requirements:

- Complete the required coursework for the programs as outlined in the program descriptions in this catalogue.
- Earn an overall Union GPA of 2.00 and a 2.00 GPA in the primary field of study.

Curriculum Plan, Degree Audit, and Degree Progress

During the junior year, a curriculum plan will be completed by the Advising Office. This indicates the courses the student has already completed toward the major. This is an agreement between the College and the student. Once the curriculum plan has been completed, only changes approved by the Office of the Registrar are binding on the College. Students should regularly consult with their advisors to ensure progress toward their degrees.

In a student's senior year, a degree audit is completed by the Office of the Registrar. These audits indicate the courses students have completed toward their degree major (on file in the Office of the Registrar) and which courses are remaining. Students are responsible for completing all requirements on the degree audit.

Alternative Ways to Earn Credit

Some students come to Union with an extensive range of experience and training, and Union recognizes that not all learning has resulted from classroom attendance. In addition to taking courses, there are a variety of alternative ways for students to earn credit toward a degree from Union College, either prior to admission or while enrolled at Union. Students may earn a maximum of ninety (90) credit hours through alternative means, as long as at least 30 of the last 36 hours are earned at Union College. Options include:

- Transfer credit from other colleges (including dual-credit courses)
- Advanced Placement (AP)
- International Baccalaureate (IB)

- CLEP (College Level Examination Program)
- Challenge credit
- WES (World Education Services) or InCred (International Credential Evaluations) for acceptable international course credit
- Independent study credit
- Prior Learning Assessment via The Portfolio
- Study abroad through KIIS (Kentucky Institute for International Studies) or the Appalachian College Association's study abroad options
- Military experience: military service form DD-214, the ACE corporate and military recommendations, or DANTES (Defense Activity for Non-Traditional Education Support)
- National College Credit Recommendation Service (NCCRS, formerly PONSI)
- Certain licensures or certifications

Policies regarding the most common of these alternatives are described below. For more information about others, contact the Admissions Office or the Office of the Registrar.

Transfer Credit for Union College Students

Students enrolled at Union who wish to take course work at another accredited college or university must obtain written permission from the Office of the Registrar before enrolling in the course. Union students cannot register for more than a total of eighteen (18) credit hours per semester, including all off-campus courses, without the consent of the Provost.

Failure or quality point deficiencies in any course work done at Union College cannot be removed by transfer credit or independent study. Students receive credit for transfer work, but grades in transfer courses are not included in GPA calculations.

Union accepts only transfer work in courses with a grade of "C" or above. Transfer credits from other institutions will be evaluated for equivalency with requirements in the Liberal Education Core, a major, minor, or other area. The initial review will be conducted by the Office of the Registrar based on generally accepted practices and in consultation with the appropriate School Dean when questions arise. Time sensitive courses, especially in technology or professional areas, may not transfer if they are too outdated.

Students receive elective credit for transfer courses that are not deemed to be the equivalent of Union's requirements for the Liberal Education Core or for courses in a program. These credits will count toward the hours required for graduation but will not satisfy the requirements for the student's major. Students who are denied equivalency credit have the right to petition for approval. The petition will be made to the Office of the Registrar, who will consult with the appropriate School Dean. The School Dean will consult with the appropriate instructor before making a recommendation to the Office of the Registrar. The student has the right to appeal the decision to the Provost, in the event the initial petition is denied. The decision of the Provost will be binding and may be made as an exception to a general rule due to special circumstances or may be issued as a precedent to guide future credit evaluations.

Advanced Placement

Students who have scored at least a three (3) on one or more of the AP tests may receive credit and/or advanced placement for their test scores. The Office of the Registrar will determine the credit and/or placement to be awarded.

International Baccalaureate

Union College recognizes International Baccalaureate (IB) level work in the admission process and will grant credit for examination scores of 4 or better on higher-level courses only. IB Certificate recipients will receive one (1) course credit (3 semester hours) for each higher-level score of 4 or better. No credit is given for subsidiary level examinations.

College Level Examination Program (CLEP)

Degree-seeking students enrolled at Union College may earn up to 30 semester hours of credit toward a four-year program through CLEP. Credit may not be earned through CLEP, for courses required for teacher certification by the Kentucky Department of Education. CLEP cannot be utilized to make up a failed course. For more information about CLEP, contact the Office of the Registrar.

Challenge Credit

A student may receive credit for a course by examination. If a student wishes to receive “challenge credit,” the student should first discuss the possibility with the appropriate instructor and School Dean. Upon consent, the instructor and School Dean will issue and sign an Application for Challenge Credit form. All forms must be turned into the Office of the Registrar on or before the add/drop date for the term in which the examination will be administered. The student will take the signed form to the Business Office to pay the \$60 per credit hour fee for the Challenge Credit. The student will then take the form (complete with the signatures of the instructor, the School Dean, and the Business Office) and the receipt showing payment was made to the Academic Affairs Office for the approval signature by the Provost.

The instructor will prepare and administer the challenge credit examination and keep the results on file in his/her office. The recommendation of the instructor, with supporting documentation, will be forwarded to the School Dean for review. If the School Dean does not agree with the evaluation, a meeting will be scheduled with the Provost.

If the School Dean approves the evaluation, the instructor will return the completed form and a copy of the documentation to the Office of the Registrar. Successful completion of the Challenge Credit will be recorded as “CR” on the transcript. An unsuccessful challenge will not be recorded. The Office of the Registrar will keep the copies of all documentation on file.

Students may request a Challenge Credit for a course only within the period when a new course may be added (either the add/drop period for the current term or the registration period for the next term).

Challenge credits may not be used to repeat a course or remove a grade of “F” from the transcript.

Independent Studies

Union offers qualified students the opportunity to work independently to earn academic credit. This option is reserved primarily for juniors and seniors who have demonstrated the academic maturity to accomplish the rigorous requirements of independent inquiry and study. For this reason, except in very unusual circumstances, independent studies are reserved for students who wish to pursue areas of study or inquiry that are not normally part of the regular curriculum. These can be in-depth studies of a topic, or a deeper examination of a topic introduced in the major. The student will work with the instructor to plan the independent study and submit a form outlining the proposed independent learning experience. Forms can be obtained from the Office of the Registrar.

Registration for this option is during the normal registration period and follows the same process. Students are expected to engage in the independent study project or experience during the semester for which they are officially enrolled.

Because of the nature of independent study and experiential education, neither can be used to satisfy Liberal Education Core requirements to replace required courses in the major, or to replace failing grades on a student's transcript.

Study Abroad

Union College offers a variety of study abroad opportunities through KIIS (Kentucky Institute for International Studies) or the Appalachian College Association. These programs provide students the opportunity to earn college credit and valuable cultural experiences. For more information on study abroad options, contact Dr. Shayne Confer.

Prior Learning Assessment via The Portfolio

The Prior Learning Assessment (PLA) program provides students with the opportunity to earn credit for learning outside the confines of a traditional classroom. For example, a student may have acquired relevant knowledge and skills through employment or other life experiences. Currently, up to 15 credits may be earned from other sources of experiential learning and applied to qualified bachelor's degree programs through completion of The Portfolio. The Portfolio, a method used by more than 1,200 United States colleges and universities for granting academic credit, is a process by which students document what they know, how they learned it, and how that learning is applicable in an academic setting. Students pursuing the Portfolio option must attend a Portfolio seminar, where all the needed tools will be provided to begin the process. This includes a sample portfolio to use as a guide to document learning experiences.

For more information about The Portfolio as well as receiving credit for learning through military service, or for earned licensures or credentials, contact Danae Phillips, Director of Online and Graduate Studies.

Academic Services

The Office of Student Support Services

The Office of Student Support Services is a federally funded TRIO Program serving 182 first-generation, income-eligible and/or disabled college students. It is a program to help students successfully complete their college education by offering services such as tutoring, personal and career counseling, and academic advising free of charge via the ARC and Career Planning and Placement.

Career Planning and Placement Services

Upon admission to Union College, students begin a process of exploring career options. The Coordinator of Career Planning and Placement and faculty advisors help students articulate their career goals, select courses of study appropriate to those goals, and find suitable employment upon completion of their studies. A career counselor is available for all students. A variety of tools are used to help students clarify their direction in life including career interest inventories, computer guidance programs, and workshops (offered both in person and online). Career Planning and Placement assists students in identifying employment opportunities, and they are given assistance in exploring a variety of internet job posting sites.

Academic Resource Center (ARC)

The ARC provides free services to Union College students in several areas. Individual tutoring is available in a variety of subject areas in both upper- and lower-division classes. Students may work with a tutor to review for classes, refresh study skills, or prepare for professional examinations. Completion of ARC courses is a requirement for students on probation.

Academic Advising Center

The Academic Advising Center assists students with the development of a plan for graduation that includes schedules for each semester. Students will meet with their academic advisor each semester to select and register for courses. Advisors are also available to help students learn how to use Union College's resources and to find solutions to issues that may arise.

The instructor in the freshman orientation course (Union College Experience) will be the student's academic advisor during his/her first two (2) semesters. At the end of the freshman year, students are assigned an academic advisor in their chosen field of study. Students who wish to change advisors/majors may make these changes in the Academic Advising Center.

Black Technology Center

Union College Technology Services, located in the Black Technology Center, provides technical support and services for students, faculty, and staff. Services include the uLearn LMS (learning management system), the Jenzabar SIS (student information system) and associated My Union web portal, Microsoft 365 email and apps, phone, and printing. Technology Services also installs and supports physical hardware across campus including servers, network, computers, and classroom technology. Students can take advantage of multiple resources including computer labs, Wi-Fi, printing, and an Esports lab.

Abigail E. Weeks / Milton H. Townsend Memorial Library

The Weeks-Townsend Memorial Library provides a variety of resources and services to support and enrich the College's academic programs. The Library, located in the center of campus, houses a collection of more than 118,000 books, periodicals, government documents, media materials, and other print items. The Library also provides access to more than 390,000 e-Books and more than 90 scholarly databases covering a multitude of academic subjects. The Library's Online Catalog (Ucat), Resource Guides for academic disciplines, circulation reserves and various tutorials are fully automated and available online. In addition, the Uchat features allow Library staff to conduct online reference interviews with patrons via the internet in real time, while the Library's universal discovery tool, Usearch, provides fully online access to thousands of scholarly articles, eBooks, and videos.

The Library can accommodate 250 persons in a variety of seating arrangements, including study carrels, tables, private study rooms, computer stations, and lounge areas. The Library provides wireless access to the campus network and laptop computers for student use. Library participation in various state, regional, and national consortia and networks provides the College community with a wide array of traditional and electronic resources. Library staff offer individual and group bibliographic instruction and instruction in the use of equipment, computer resources, and special collections.

The Library includes a 20-seat classroom. The Curriculum Collection supports the teacher education program with specialized curriculum and juvenile materials. The Library houses several other special collections including the Lincoln-Civil War Collection, the Kentucky Appalachian Heritage Collection, the College Archives, and the Cumberland Gap Genealogy Collection. Library staff offer individual and group bibliographic instruction and instruction in the use of equipment, computer resources, and special collections.

Writing Center

Located on the first floor of Norton Hall, the Union College Writing Center is accessible throughout the academic year. It offers a quiet environment where students can receive support as they write and study. Assistance with writing, reading, and public speaking is available for students, faculty, and staff seeking to hone their communication skills.

Academic Records

Family Educational Rights and Privacy Act (FERPA)

The College is subject to the provisions of the Family Educational Rights and Privacy Act (FERPA). When a student reaches 18 years of age or attends an institution of postsecondary education at any age, the student becomes an “eligible student,” and all rights under FERPA transfer from the parent to the student. This federal law affords students’ rights with respect to the student’s education records.

These rights are:

1. The right to inspect and review the student’s education records within 45 days of the day the Office of the Registrar receives the request for access. Students should submit a written request to the Office of the Registrar that identifies the record(s) they wish to inspect. The Office of the Registrar will make arrangements for access and notify the student of the time and place the records may be inspected.
2. The right to request the amendment of the student’s education records that the student believes is inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. Students may ask the College to amend a record they believe is inaccurate or misleading; they should write the Office of the Registrar and clearly identify the part of the record they want changed and specify why it is inaccurate or misleading. 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 them of their 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 as an administrator, supervisory, academic, 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) to perform a college function which would otherwise be accomplished by a college employee; 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 to fulfill his or her professional responsibility.

Upon request, the College discloses education records without consent of another school in which a student seeks or intends to enroll. The College may also disclose, without the student’s consent, “directory information,” unless the student has advised the Office of the Registrar in writing at least five days following registration that the student does not wish part or all the

directory information to be made public. Once filed, this instruction becomes a permanent part of the student's record until the student instructs the College, in writing, to have the request removed. The primary purpose of directory information is to allow the College to include this type of information in certain College publications, the media, and outside organizations.

The College has designated the following as examples of directory information: the student's name, address, email address, telephone number, date and place of birth, major field of study, grade level, enrollment status (e.g., undergraduate or graduate, full-time or part-time), dates of attendance (i.e., the period of time during which the student attends or attended the school), participation in officially recognized activities and sports, weight and height of members of athletic teams, degrees, honors and awards received, and the most recent school attended.

The College may disclose education records without the student's consent in certain other circumstances as allowed by law. Students may contact the Office of the Registrar with questions or complaints about the content or release of their education records.

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 which administers FERPA and to which complaints are to be sent is:
- 5.

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

For more information regarding FERPA and other student privacy issues, please visit their website at <https://studentprivacy.ed.gov>.

Union College will, however, release records and accounts pertaining to veterans, as well as to other students, to appropriate U.S. Government representatives. This exception to all other federal laws is found in Title 38 of the U.S. Code, Section 1790(c).

Although the Family Rights and Privacy Act affords parents of students, under the Internal Revenue Code, access to the student's education record, it is the policy of the College to require all students sign a waiver for the release of such information.

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The Undergraduate Curriculum

There are two components to the undergraduate curriculum, the Liberal Education Core and the coursework in a student's chosen program of study. The Liberal Education Core is designed to help build a broad knowledge base, develop transferrable skills, and gain awareness of the processes for discovery and problem-solving in a range of disciplines. The courses in a student's major emphasize depth of knowledge in a discipline and acquisition of specialized skills.

Five broad goals, the Liberal Learning Outcomes, are addressed in various ways throughout the curriculum, both within the Core and within the various programs of study.

Liberal Learning Outcomes

Liberal Learning Goal 1: Communication

By graduation, a Union College student communicates effectively.

Liberal Learning Goal 2: Critical Thinking

By graduation, a Union College student thinks critically.

Liberal Learning Goal 3: Cultures and the Arts

By graduation, a Union College student demonstrates knowledge of cultures and the arts.

Liberal Learning Goal 4: Science and Math

By graduation, a Union College student demonstrates the ability to use the scientific approach and mathematical reasoning to solve problems.

Liberal Learning Goal 5: Responsibility and Engagement

By graduation, a Union College student understands the complexities of personal responsibility and civic engagement.

Liberal Education Core

Total Core Hours Required | 39-40 credit hours:

Freshman Requirements | 5 Credit Hours

Course	Description	Credit Hours
UCE 100	Union College Experience	1 credit hours
UCE 102	Union College Experience	1 credit hours
AND choose 1 of the following:		
GNST 105	Igniting Higher Order Thinking	3 credit hours
PHIL 260	Logic and Language	3 credit hours
	TOTAL	5 credit hours

Skills | 12-13 Credit Hours

Course	Description	Credit Hours
ENGL 100	Intro to Freshman Composition (or ENGL 111)	3 credit hours
ENGL 111	First Year Composition I (or ENGL 100)	3 credit hours
ENGL 112	First Year Composition II	3 credit hours
AND choose 1 of the following courses:		
MATH 110	Topics in Contemporary Mathematics	3 credit hours
MATH 131	College Algebra	3 credit hours

MATH 133	Trigonometry and Analytic Geometry	3 credit hours
MATH 230	Elementary Probability & Statistics (Prerequisite: MATH 110 or permission of the instructor)	3 credit hours
MATH 241	Differential Calculus & Analytic Geometry (Prerequisite: MATH 133 or permission of the instructor)	4 credit hours
	TOTAL	12-13 credit hours

Fine Arts | 3 Credit Hours

Course	Description	Credit Hours
Choose one of the following courses		
COMM 221	Introduction to Media Communications	3 credit hours
MUSC 221	Introduction to Music	3 credit hours
THRT 131	Introduction to Theatre	3 credit hours
THRT 151	Introduction to Acting	3 credit hours
OR choose 3 credit hours from the following:		
MUSC 152	Union Singers	1 credit hour (X 3)
MUSC 159	Union Harmony	1 credit hour (X 3)
MUSC 160	Bella Union	1 credit hour (X 3)
THTR	Theatre Practicum (THTR 180, 280, 380, or 480)	1 credit hour (X 3)
	TOTAL	3 credit hours

Literature | 3 Credit Hours

Course	Description	Credit Hours
ENGL	Choose any 200 level English course	3 credit hours

History and Religious Studies | 6 Credit Hours

Course	Description	Credit Hours
Choose one of the following courses		
HIST 110	Roots of Civilization	3 credit hours
HIST 113	Religion and Empire	3 credit hours
HIST 213	Revolutions in Politics, Society, and Thought	3 credit hours
AND choose an additional history, philosophy, or religion course:		
HIST	Any 100 or 200 level History course	3 credit hours
PHIL	Any 100 or 200 level Philosophy course (except PHIL 260 if taken to satisfy the freshman critical thinking requirement)	3 credit hours
RLGN	Any 100 or 200 level Religion course	3 credit hours
	TOTAL	6 credit hours

Life Skills | 3 Credit Hours

Course	Description	Credit Hours
Choose one of the following courses		
PHED 192	Lifeguard Training	3 credit hours
RECM 111	Intro to Recreation and Leisure	3 credit hours
WELL 131	First Aid and Safety	3 credit hours
WELL 178	Life Choices	3 credit hours
OR choose 3 credit hours from the following:		

PHED	Any 100 level activities course(s)	1 credit hour (X 3)
RECM	Any 100 level activities course(s)	1 credit hour (X 3)
	TOTAL	3 credit hours

Science | 4 Credit Hours

Course	Description	Credit Hours
Choose one three-credit lecture course with accompanying lab OR one four-credit course		
BIOL 101/102	Human Biology (3) and Human Biology Lab (1)	4 credit hours
BIOL 109/110	Elements of Biology (3) and Elements of Biology Lab (1)	4 credit hours
BIOL 111	General Biology with Lab	4 credit hours
CHEM 121	General Chemistry with Lab	4 credit hours
ENVS 101	Environmental Science (4)	4 credit hours
GNSC 105/106	Physical Science (3) and Physical Science Lab (1)	4 credit hours
PHYS 111/113	College Physics (3) and College Physics Lab (1)	4 credit hours
	TOTAL	4 credit hours

Social and Behavioral Sciences | 6 Credit Hours

Course	Description	Credit Hours
Choose two of the following courses		
ANTH 221	Introduction to Cultural Anthropology	3 credit hours
APST 104	Introduction to Appalachian Studies	3 credit hours
CRJU 101	Introduction to Criminal Justice	3 credit hours
ECON 203	Principles of Macroeconomics	3 credit hours
ECON 204	Principles of Microeconomics	3 credit hours
INSS 101	Introduction to Social Sciences	3 credit hours
INSS 103	Cultural Geography	3 credit hours
PLSC 101	American National Government	3 credit hours
PSYH 200	Introduction to Psychology	3 credit hours
SOCI 131	Introduction to Sociology	3 credit hours
	TOTAL	6 credit hours

TOTAL HOURS FOR THE CORE	39-40 credit hours
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2023-2024 Undergraduate Programs of Study

Union's programs of study are summarized in the table below. The links in the table lead to more detailed information about each program.

For a program designated as “online,” 100% of the required coursework is offered online. Those designated as “hybrid” consist primarily of courses taught on campus but include some required online coursework. A few programs are offered both fully online and in traditional campus-based format. If there is no designation noted, the program is only offered in traditional format.

Program	Major	Minor	Other	Format Notes
Accounting	X	X		
Actuarial Science	X			Hybrid
Appalachian Studies		X		
Biology	X	X		
Business Management	X	X		Campus OR online
Chemistry	X	X		
Coaching		X		
Computer Information Systems		X		
Criminal Justice	X	X		
Education Programs (Overview)				
Elementary Education	X			
Middle Grades Education	X			
Secondary Education				
Biology Education	X			
Chemistry Education	X			
English Education	X			
Mathematics Education	X			
Social Studies Education	X			
Health & Physical Education	X			
Substitute Teaching Associate Degree			Associate Degree	
English	X	X		
Exercise Science	X	X		
General Business	X			Campus OR online
General Studies	X			Campus OR online
Health		X		
Health Promotion	X			
History	X	X		
History and Political Science	X			
Human Performance	X	X		
Latin American & Iberian Studies		X		

Law Enforcement	X	X		Online only (major) Hybrid (minor)
Management		X		
Marketing	X	X		Major: Campus Minor: Campus or online
Mathematics	X	X		
Media Communication	X	X		
Social Media Management Certificate			Certificate	Online only
Music	X	X		
Nursing Programs (Overview)				
Nursing (Pre-Licensure)	X			
Nursing (RN-BSN)	X			Online only
Nursing (Medicaid Nurse Aide)			Certificate	
Philosophy		X		
Physical Science		X		
Physics		X		
Political Science		X		
Pre-Engineering			Associate Degree	
Pre-Law		X		
Professional Writing		X		
Psychology Programs (Overview)				
Psychology	X	X		
Chemical Dependency Counselor Certificate			Certificate	Online only
Substance Abuse Counseling	X			Online only
Public Health	X	X		Hybrid
Religious Studies	X	X		Major: Campus Minor: Campus or online
Sociology	X	X		
Sports & Recreation Management	X			
Recreation Management minor		X		
Supply Chain Management	X			Hybrid
Theatre		X		

Pre-Professional Preparation

Students who have an interest in professional programs or allied health fields, such as dentistry, engineering, forensics, law, medicine, medical technology, optometry, pharmacy, physical therapy, or veterinary medicine can fulfill entrance requirements for these schools while pursuing a bachelor's degree at Union College. Since admission requirements to professional schools vary considerably, students should work closely with their advisors, who assist with the admission process into professional school, to select an appropriate program of study. Students should inform their advisors of interests in professional schools as early as possible.

Union College has signed agreements with a variety of professional schools. These agreements help alleviate the stress associated with getting into a graduate program and help ensure an easy transition from Union. These schools either reserve seats in their programs for Union College students who meet the requirements for admission or guarantee qualified Union students an admissions interview. Additionally, some of the schools provide an accelerated path to a professional degree by allowing students to begin their professional studies while they complete their upper-level undergraduate coursework. For more information about these options, contact Rachel Gaynor.

Individualized Majors

An individualized major is available for students whose interests cannot be accommodated within the established majors at the College. This self-designed major must meet the following criteria:

- The major must be interdisciplinary and cannot duplicate existing majors offered by the College.
- A student must have a minimum GPA of 3.0 and sophomore standing to apply for the individualized major.
- Individualized majors must include at least thirty-nine (39) semester credit hours at the 300 or above level. No more than nine (9) hours can be earned by independent study. Under normal circumstances, no more than six (6) hours can be earned by transfer credit.
- A senior project must be completed in the major and can count up to three (3) credit hours of independent study.

Students seeking an individualized major must select an advisor from the teaching faculty of a discipline related to the self-designed major plan. In some cases, two advisors may be selected from different departments to oversee the work.

In consultation with the advisor or advisors, students seeking an individualized major must offer a detailed plan of study, a rationale for undertaking a self-designed major, and a curriculum plan for the degree. The application should be submitted and approved before beginning the program of study. The appropriate School Dean must approve the plan of study. The School Dean will take the plan to the Academic Policies Committee (APC) for final approval by March 1, for programs commencing in the fall semester, and by October 1, for programs commencing in the spring semester.

Students graduating with the individualized major will receive either a B.A. or B.S. degree in the field of study with an individualized major notation.

Detailed Descriptions of Academic Programs

One the following pages are detailed descriptions of Union's undergraduate programs. The descriptions are organized alphabetically as they appear in the summary table. For convenience, there are direct links in the summary table to each program, and a link back to the summary table at the end of each program description.

Following the program descriptions are descriptions of the individual courses in Union's undergraduate curriculum, organized alphabetically by course prefix.

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Accounting

Required Courses for all Accounting, Business Management, and Marketing Majors | 18 Credit Hours

Class Name	Credit Hours
ACTG 270 Accounting for Managers 3 credit hours OR ACTG 271 managerial Accounting	3 Credit Hours
BUAD 151 Business Essentials	3 Credit Hours
BUAD 302 Business Communications	3 Credit Hours
BUAD 310 Legal Environment of Business	3 Credit Hours
CIS 241 Intermediate Technology Applications	
ECON 204 Principles of Microeconomics	3 Credit Hours

Accounting Major | 33 Additional Credit Hours

Class Name	Credit Hours
ACTG 272 Financial Accounting	3 credit hours
ACTG 331 Cost Accounting	3 credit hours
ACTG 371 Intermediate Accounting I	3 credit hours
ACTG 372 Intermediate Accounting II	3 credit hours
ACTG 376 Tax Accounting	3 credit hours
ACTG 433 Auditing	3 credit hours
ACTG 471 Advanced Accounting	3 credit hours
ACTG 472 Not-for-Profit & Fund Accounting	3 credit hours
BUAD 303 Business Statistics	3 credit hours
BUAD 351 Principles of Finance	3 credit hours
ECON 203 Principles of Macroeconomics	3 credit hours

Accounting Minor | 21 Credit Hours

Class Name	Credit Hours
ACTG 331 Cost Accounting	3 credit hours
ACTG 371 Intermediate Accounting I	3 credit hours
ACTG 372 Intermediate Accounting II	3 credit hours
ACTG 376 Tax Accounting	3 credit hours
BUAD 351 Principles of Finance	3 credit hours
Choose 6 hours from the following:	
ACTG 471 Advanced Accounting	3 credit hours
ACTG 472 Not-for-Profit Fund Accounting	3 credit hours
ACTG 481 Special Topics in Accounting	3 credit hours
ACTG 433 Auditing	3 credit hours
ACTG 485 Accounting Internship (3 hours maximum)	3 credit hours

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Actuarial Science

Actuarial Science involves using math, statistics, and probability to manage risks. An actuary's role is to anticipate the likelihood of future events so that clients can make business decisions that reduce financial losses. Banks, insurance companies, and investment firms employ actuaries. The major in Actuarial Science offers students who are interested in mathematics a focused career pathway. Students develop skills in data analysis, critical thinking, and problem-solving that transfer to many contexts.

Requirements for Actuarial Science Major | 48-51 Semester Hours

Class Name		Credit Hours
MATH 230	Elementary Probability and Statistics	3 credit hours
*MATH 241	Differential Calculus and Analytic Geometry	4 credit hours
MATH 242	Intermediate Calculus and Analytic Geometry	4 credit hours
MATH 243	Multivariate Calculus and Analytic Geometry	4 credit hours
CIS 250	Introduction to Computer Programming	3 credit hours
DATA 250	Foundations of Data Analytics I	3 credit hours
DATA 251	Foundations of Data Analytics II	3 credit hours
ACTG 270	Accounting for Managers	3 credit hours
ACTG 272	Financial Accounting	3 credit hours
ASCI 250	Mathematical Theory of Interest	3 credit hours
MATH 331	Introduction to Linear Algebra	3 credit hours
MATH 341	Differential Equations I	3 credit hours
ACTG 371	Intermediate Accounting I	3 credit hours
ACTG 372	Intermediate Accounting II	3 credit hours
ASCI 350	Probability for Actuaries	3 credit hours
ASCI 450	Actuarial Science and Risk Management with R	3 credit hours
Program Total		51 credit hours

*MATH 133 should be taken prior to MATH 241 by anyone who has not completed a subject-specific trigonometry course in high school or college.

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Appalachian Studies

The Appalachian Studies minor allows students in all academic programs to learn about the history, geography, culture, literature, folklore/folk life, environment, and economy of the Appalachian region. Courses examine socioeconomic concerns of eastern Kentucky and Appalachia more broadly and provide an overview of the Appalachian region within the global context. The minor develops critical and analytical skills that are valuable in fields as diverse as business, communications, education, English, environmental science, geography, health sciences, law, literature, and public policy.

Requirements for Appalachian Studies Minor | 21 Hours

9 required semester hours, including:

Class Name	Credit Hours
APST 104 Introduction to Appalachian Studies	3 credit hours
APST 204 Appalachian Culture	3 credit hours
BHSC 246 Methods of Behavioral Science Research	3 credit hours

Or

APST 300 / SOCI 300 Methods Qualitative Research & Community	3 credit hours
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12 hours of elective courses, selected from:

APST 202 Service-Learning	3 credit hours
APST 401 / SOCI 401 Feuds, Fights, Murders, and Violence: Issues in	3 credit hours
APST 381 Special Topics in Appalachian Studies	3 credit hours
ENGL 252 Appalachian Literature	3 credit hours
ANTH 234 American Folklore	3 credit hours
GEOG 241 Geography of Appalachia	3 credit hours
HIST 433 History of Appalachia	3 credit hours
APST 241 / SOCI 241 Sociology of Appalachia	3 credit hours
APST 304 Peoples of Appalachia	3 credit hours

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Biology

Requirements for Biology Major | 52 Semester Hours

Class Name	Credit Hours
BIOL 111 General Biology	4 credit hours
BIOL 232 General Zoology	4 credit hours
BIOL 233 General Botany	4 credit hours
BIOL 362 Transmission & Population Genetics	4 credit hours
BIOL 363 Molecular Genetics	4 credit hours
BIOL 431 Cell Biology	4 credit hours
BIOL 441 Ecology	4 credit hours
2 Biology Electives (300 or 400 level)	7-8 credit hours
CHEM 121 General Chemistry I	4 credit hours
CHEM 122 General Chemistry II	4 credit hours
GNSC 471 Science Seminar	1 credit hour

One of the following groups:

PHYS 111 College Physics I	3 credit hours
PHYS 112 College Physics II	3 credit hours
PHYS 113 College Physics Lab I	1 credit hour
PHYS 114 College Physics Lab II	1 credit hour

Or

PHYS 211 General Physics I	4 credit hours
PHYS 212 General Physics II	4 credit hours
PHYS 213 General Physics Lab I	1 credit hour
PHYS 214 General Physics Lab II	1 credit hour

Requirements for Biology Minor | 24 Semester Hours

24 semester hours in Biology are required; the following courses must be included:

Class Name	Credit Hours
BIOL 111 General Biology	4 credit hours
BIOL 232 General Zoology	4 credit hours
BIOL 233 General Botany	4 credit hours

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Business Management

All courses for the Business Management major are offered both online and on campus.

Required Courses for all Accounting, Business Management, and Marketing Majors | 18 Credit Hours

Class Name		Credit Hours
ACTG 270	Accounting for Managers 3 credit hours	3 Credit Hours
Or		
ACTG 271	Managerial Accounting 3 credit hours	3 Credit Hours
BUAD 151	Business Essentials 3 credit hours	3 Credit Hours
BUAD 302	Business Communications 3 credit hours	3 Credit Hours
BUAD 310	Legal Environment of Business 3 credit hours	3 Credit Hours
CIS 241	Intermediate Technology Applications 3 credit hours	3 Credit Hours
ECON 204	Principles of Microeconomics	3 Credit Hours

Business Management Major | 30 Additional Credit Hours

Class Name		Credit Hours
BUAD 303	Business Statistics	3 credit hours
BUAD 351	Principles of Finance	3 credit hours
BUAD 451	Strategic Decisions	3 credit hours
ECON 203	Principles of Macroeconomics	3 credit hours
MGMT 352	Principles of Management	3 credit hours
MKTG 321	Principles of Marketing	3 credit hours
MGMT 372	Human Resource Management	3 credit hours
MGMT 374	Operations Management	3 credit hours
General Electives, 6 hours upper level (300+ level) elective courses in ACTG, BUAD, ECON, MGMT, or MKTG		

Business Management Minor | 18 Credit Hours (For Non-Business-Related Majors)

Class Name		Credit Hours
ACTG 270	Accounting for Managers	3 credit hours
BUAD 151	Business Essentials	3 credit hours
ECON 204	Principles of Microeconomics	3 credit hours
BUAD 310	Legal Environment of Business	3 credit hours
MGMT 352	Principles of Management	3 credit hours
MKTG 321	Principles of Marketing	3 credit hours

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Chemistry

Requirements for B.S. Chemistry Major | 54 Semester Hours

Class Name	Credit Hours
CHEM 121 General Chemistry I	4 credit hours
CHEM 122 General Chemistry II	4 credit hours
CHEM 212 Analytical Chemistry	4 credit hours
CHEM 311 Organic Chemistry I	5 credit hours
CHEM 312 Organic Chemistry	5 credit hours
CHEM 314 Physical Chemistry Lab	1 credit hour
CHEM 332* Physical Chemistry	3 credit hours
GNSC 471 Science Seminar	1 credit hour
MATH 241 Differential Calculus & Analytic Geometry	4 credit hours
MATH 242 Intermediate Calculus & Analytic Geometry	4 credit hours
PHYS 211* General Physics I	4 credit hours
PHYS 212* General Physics II	4 credit hours
PHYS 213* General Physics Lab I	1 credit hour
PHYS 214* General Physics Lab II	1 credit hour
PHYS 331* Heat and Thermodynamics	3 credit hours
CHEM 300+ Chemistry Electives at or above 300-level	6 credit hours
*Students should be aware that these courses have MATH prerequisites beyond MATH 241	

Requirements for B.A. Chemistry Major | 44-48 Semester Hours

Class Name	Credit Hours
CHEM 121 General Chemistry I	4 credit hours
CHEM 122 General Chemistry II	4 credit hours
CHEM 212 Analytical Chemistry	4 credit hours
CHEM 311 Organic Chemistry I	5 credit hours
One of the following 3 courses:	
CHEM 313 Descriptive Physical Chemistry	3 credit hours
CHEM 332* Physical Chemistry	3 credit hours
PHYS 331* Heat and Thermodynamics	3 credit hours
CHEM 314 Physical Chemistry Lab	1 credit hour
CHEM 411 Inorganic Chemistry	4 credit hours
GNSC 471 Science Seminar	1 credit hour
MATH 241 Differential Calculus & Analytic Geometry	4 credit hours
CHEM, PHYS, MATH Electives (MATH 132 or higher)	6-8 credit hours
One of the following groups:	
PHYS 111 College Physics I	3 credit hours
PHYS 112 College Physics II	3 credit hours
PHYS 113 College Physics Lab I	1 credit hour
PHYS 114 College Physics Lab II	1 credit hour
PHYS 211* General Physics I	4 credit hours
OR	
PHYS 212* General Physics II	4 credit hours

PHYS 213*	General Physics Lab I	1 credit hour
PHYS 214*	General Physics Lab II	1 credit hour
*Students should be aware that these courses have MATH prerequisites beyond MATH 241.		

Requirements for Chemistry Minor | 22 Semester Hours

Class Name	Credit Hours
CHEM 121 General Chemistry I	4 credit hours
CHEM 122 General Chemistry II	4 credit hours
CHEM 311 Organic Chemistry I	5 credit hours
CHEM 312 Organic Chemistry II	5 credit hours

And either of the following courses:

CHEM 212 Analytical Chemistry	4 credit hours
Or	
CHEM 411 Inorganic Chemistry	4 credit hours

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Coaching

Requirements for Coaching Minor | 21 Hours

Twenty-one (21) credit hours including 15 hours that cannot be applied to student's major area of study and/or the Liberal Education Core and one required course, WELL 131, First Aid and Safety Education. Coaching minors must acquire CPR and First Aid certification. Students must obtain a grade of "C" or higher in each of the 21 hours that count toward the minor. The minor is designed to provide students with knowledge, skills, and experiences that will enable them to coach effectively and safely in school, community-youth, and adult sports programs. Students will have the opportunity to develop essential coaching and performance skills as well as requisite knowledge in related areas including athletic training, sport science, and sport management. This minor is also useful to those who work with youth in sports leagues.

Class Name		Credit Hours
WELL 131	First Aid and Safety Education (required course)	3 credit hours
ATHT 131	Basic Athletic Training	3 credit hours
PSYH 332	Lifespan Development	3 credit hours
PHED 243	Philosophy of Coaching	3 credit hours
PHED 340	Motor Development	3 credit hours
HMPF 435	Social Psychology of Sport & Human Performance	3 credit hours
PHED 361	Organization & Administration: Physical Education	3 credit hours
PHED 201	Coaching Football	3 credit hours
PHED 202	Coaching Men's & Women's Basketball	3 credit hours
PHED 203	Coaching Soccer	3 credit hours
PHED 204	Coaching Baseball & Softball	3 credit hours

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Computer Information Systems

Computer Information Systems Minor | 18 Credit Hours

Class Name		Credit Hours
CIS 241	Intermediate Technology Applications	3 credit hours
CIS 250	Introductory Programming	3 credit hours
CIS 300	Computer Hardware and Maintenance	3 credit hours
CIS 310	Operating Systems	3 credit hours
CIS 320	Computer Networking	3 credit hours
CIS 351	Computer Information Systems Internship	3 credit hours

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Criminal Justice

Criminal Justice is an interdisciplinary program drawing from fields such as Sociology, Psychology, Political Science, and Law. Criminal Justice asks why behaviors inconsistent with expectations and the law occur, and how society anticipates and reacts to those behaviors. Students gain an appreciation for the complexity of the citizen and the state, as well as structures and institutions for the resolution of disputes between the two. They also develop skills that will prepare them to advance in careers in the future: listening and reading critically; thinking analytically; and expressing themselves orally and in writing. Students analyze issues such as the death penalty, drug abuse, political violence, insanity, and others. Students of Criminal Justice are prepared for careers in a wide range of governmental and private sector careers, as well as for graduate study in the behavioral sciences, government, and law.

Requirements for Criminal Justice Major | 35 Semester Hours

Class Name	Credit Hours
Required courses, 11 hours:	
CRJU 101 Introduction to Criminal Justice	3 credit hours
PLSC 101 American National Government	3 credit hours
CRJU 401 / PLSC 401 Public Policy & Criminal Justice (Senior	3 credit hours
CRJU 390 Comparative Criminal Justice System I	1 credit hour
CRJU 391 Comparative Criminal Justice System II	1 credit hour
Police Science courses, 6 hours, choose 2 courses:	
LAWS 200 Community Policing	3 credit hours
LAWS 205 Patrol Operations	3 credit hours
LAWS 210 Traffic Enforcement	3 credit hours
CRJU 302 / LAWS 302 Methods & Problems of Investigation	3 credit hours
Or	
PLSC 307 / LAWS 307 Criminal Justice Administration	3 credit hours
LAWS 206 Topics in Law Enforcement	3 credit hours
Public Law courses, 9 hours, choose 3 courses:	
CRJU 205 Criminal Law	3 credit hours
CRJU 201 Criminal Procedure	3 credit hours
PLSC 209 / CRJU 209 American Courts & Judicial Process	3 credit hours
Or	
LAWS 301 The Law of Evidence	3 credit hours
Interdisciplinary Foundations courses, 9 hours, choose 3:	
SOCI 363 Corrections: Institutional and Community Based	3 credit hours
Or	
SOCI 464 Deviance & Criminology	3 credit hours
PLSC 470 / CRJU 470 Political Violence	3 credit hours
Or	
PLSC 486 / CRJU 486 Constitutional Law I: Civil Liberties	3 credit hours
PLSC 306 / CRJU 306 Topics in Political Science / Topics in Criminal	3 credit hours

Requirements for Criminal Justice Minor | 21 Hours

Class Name	Credit Hours
Required courses, 15 hours:	
CRJU 101 Introduction to Criminal Justice	3 credit hours
CRJU 201 Criminal Procedure	3 credit hours

CRJU 205	Criminal Law	3 credit hours
CRJU 401	Public Policy and Criminal Justice (Senior Capstone)	3 credit hours
PLSC 101	American National Government	3 credit hours

Police Science courses, 3 hours :

LAWS 200	Community Policing	3 credit hours
LAWS 302	Methods & Problems of Investigation	3 credit hours
LAWS 307	Criminal Justice Administration	3 credit hours
LAWS 206	Topics in Law Enforcement	3 credit hours

Interdisciplinary Foundation courses, 3 hours 1:

SOCI 363	Corrections: Institutional and Community Based	3 credit hours
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Or

SOCI 464	Deviance & Criminology	3 credit hours
PLSC 470 / CRJU 470	Political Violence	3 credit hours
CRJU 306	Topics in Criminal Justice	3 credit hours

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Education Programs

The Educational Studies Unit (ESU) at Union College offers undergraduate certification programs at the elementary, middle grades, and secondary levels; a non-teaching degree in educational studies is also available. Union also offers programs leading to a master's degree or Rank I. Information about these programs is available.

The undergraduate teaching programs prepare students to teach for schools in Kentucky and the nation. Candidates are prepared to utilize emerging curriculum and instructional practices and are immersed in the rigors of the teaching profession through clinical observation and student teaching placement. Finally, through partnership with local and state Pre-K-12 school districts, candidates are given opportunities for professional growth and development. The teacher education programs described on the following pages prepare students to receive baccalaureate degrees and, upon recommendation of the College, a Kentucky teacher's certificate. Students who wish to teach in a state other than Kentucky should determine certification requirements in that state and plan accordingly. Information on certification requirements in other states is also available.

Educational Studies Standards

Attention: The ESU is subject to regulatory requirements established by the Kentucky Education Professional Standards Board (EPSB) and the Council for the Accreditation of Educator Preparation (CAEP). Those standards may supersede what is printed in this catalogue. Students are strongly advised to meet with their teacher education advisors before registration each semester and to check requirements frequently at www.epsb.ky.gov.

Requirements for Admission to Teacher Education Program:

- Student has been admitted to Union College.
- Student has filed an application for admission to the Program.
- Student has signed a statement indicating his/her adherence to the EPSB Code of Ethics.
- Student has completed ENGL 111 (First Year Composition I) and ENGL 112 (First Year Composition II) (or equivalent) with a semester grade of C or better.
- Student has completed EDUC 210 (Early Involvement Practicum)/EDUC 211 (Early Involvement Seminar), and EDUC 231 (Schooling in American Culture), with a grade of "C" or better.
- Student has demonstrated General Education Proficiency by meeting the state approved minimum scores on the CASE Exam. Please check with the ESU for passing test score information.
- Student has completed a minimum of 30 credit hours with a GPA of 2.75 or better. (Note: a transfer student must have: [a] 2.75 cumulative GPA for all work completed at Union College and [b] an overall academic standing GPA of 2.75.)
- Student has successfully passed the Teacher Education Interview that evaluates the individual's dispositions and ability to communicate.
- Student has successfully completed and received passing scores on an essay based on the themes of the ESU to validate writing proficiency.
- Student has submitted a current criminal records check (less than 12 months old).

Note: Teacher Education program admission requirements are subject to change and additional fees may be required. Before applying, please contact the ESU.

Requirements for Admission to Student Teaching

Students requesting admission to student teaching must meet all eligibility requirements (full listing obtained from the department), must be approved by the Director of Student Teaching, and presented to the Teacher Education Committee.

Requirements for student teaching are:

- Admittance to the Teacher Education Program.
- Completed application for student teaching by midterm of the semester immediately preceding the term in which student teaching will occur.
- Senior standing with at least 96 semester hours of credit with a minimum cumulative GPA of 2.75 at Union College (Union College coursework only), and a minimum cumulative GPA of 2.75, including all Union College coursework and all accepted transfer work, if applicable. In addition, a minimum GPA of 2.75 in each subsection (pre-professional, professional, emphasis area, teaching fields) of the appropriate education curriculum plan.
- All coursework successfully completed in each subsection (pre-professional and professional) of the appropriate education curriculum plan, and no more than 6 hours of content coursework remaining. The appropriate Methods and Materials course (EDUC 388, Literacy in the Elementary School; EDUC 437, Methods & Materials in Middle School; and EDUC 447, Methods & Materials Secondary School) must also be completed with a grade of “C” or better.
- Moral, social, and ethical behavior that meets requirements of the College and the EPSB, and a signed Kentucky Teachers’ Code of Ethics statement to support such behavior.
- Submission of a current medical examination (within the preceding 12 months) and a current tuberculosis test (within the preceding 12 months).
- Submission of a current criminal record check (within the preceding 12 months) and documentation of tort liability insurance coverage or waiver (some school systems require criminal record checks for the preceding 6 months).
- Completion of institution prerequisites for time in residence and pre-student teaching field experiences (minimum of 200 hours of field-based observation and participation).
- Submission of institution prerequisites for time in residence and pre-student teaching field experiences (minimum of 200 hours of field-based observation and participation).
- Students cannot schedule any activities, including employment, during the time (7:30 AM – 3:30 PM) of student teaching.
- Submission of a preliminary student teaching agreement (contract) with all necessary signatures.

Additional Fees Information

Additional fees will be charged to student accounts for the following:

Course Number & Name	Fee Description	Fee Amount
EDUC 210 Early Involvement Practicum	CASE / Praxis I	\$150
	Kentucky Background Check	\$21
	Kentucky Education Association (KEA) ST	\$10
	KCPS Central Registry Check	\$10
EDUC 310	KEA Aspiring Educators Program	\$10
EDUC 410 Advanced	KEA Aspiring Educators Program	\$10
EDUC 271	Art Supply Fee	\$30
EDUC 458	Student Teaching Fee	\$150
	Aspiring Educators Program	\$30
EDUC 478	Student Teaching Fee	\$150

	Aspiring Educators Program	\$30
EDUC 498	Student Teaching Fee	\$150
	Aspiring Educators Program	\$30

Elementary Education Curriculum

Elementary Education (P-5) majors need both a biological and physical science course; one of the courses must include a laboratory. To be eligible for Student Teaching: (a) All Professional Courses excluding EDUC 488, Professional Interaction in the School, must be completed, and (b) All PRAXIS II content area and PLT tests must be passed. Also see Requirements for Admission to Student Teaching. Students must be admitted to Teacher Education to take Advanced Block classes.

I - Pre-Professional Courses

Pre-professional courses for students preparing to teach Elementary Education (P-5). Minimum GPA of 2.75 required. Union College Liberal Education Core (General Education transfer equivalency). Carefully read the Core requirements given in this catalogue. Students should meet with their advisors to check if all Core requirements are being met.

Class Name	Credit Hours
PSYH 200 Introduction to Psychology	3 credit hours
PHED 261 Physical Education: Elementary School	3 credit hours
EDUC 271 Teaching Art in the Elementary School	3 credit hours
EDUC 305 Elementary Math for Teachers	3 credit hours
EDUC 363 Language Arts Instruction for Elementary & Middle Grades	3 credit hours
MUSC 373 Elementary School Music	3 credit hours
WELL 131 First Aid and Safety Education	3 credit hours
SPAN 213 Spanish for Professional Practice	3 credit hours
INSS 103 Cultural Geography	3 credit hours

II - Professional Preparation

Professional preparation for students preparing to teach Elementary Education (P-5). The following requirements cannot be met by CLEP, independent study, or pass/fail options. A GPA of 2.75 is required, and no grade below "C" is acceptable. To be eligible for Student Teaching (EDUC 458, Supervised Student Teaching Elementary School), all courses excluding EDUC 488, Professional Interaction in the School, must be completed.

Note: teacher certification requirements are subject to change. Additional fees may be required. Before registering for certifications tests, refer to the EPSB website at www.kyepsb.net for current requirements or call (502) 564-4606 or call toll free (888) 598-7667.

Courses in each semester are Corequisites and must be taken together. Courses are listed by semester block.

Novice

Class Name	Credit Hours
EDUC 231 Schooling in American Culture	3 credit hours
EDUC 210 Early Involvement Practicum	2 credit hours
EDUC 211 Early Involvement Seminar	1 credit hour

Total Hours Required for Novice Block	6 credit hours
The Novice Block is offered in the fall and spring semesters of each academic year.	

Intermediate

Class Name	Credit Hours
EDUC 283 Educational Technology	3 credit hours
EDUC 310* Intermediate Involvement Practicum	1 credit hour
SPED 321 Survey of Exceptionalities	3 credit hours
EDUC 374* Instructional Design and delivery in the Elementary School	3 credit hours
EDUC 388 Literacy in the Elementary School	3 credit hours
EDUC 470 Learning Theories for P12 Educators	3 credit hours
*Must be taken concurrently	
Total Hours Required for Intermediate Block	16 credit hours
The Intermediate Block is offered in the fall and spring semesters of each academic year.	

Advanced

Class Name	Credit Hours
EDUC 318 Teaching Mathematics Elementary School	3 credit hours
EDUC 328 Elementary School Social Studies	3 credit hours
EDUC 338 Teaching Reading in Content Subject	3 credit hours
EDUC 348 Teaching Science in Elementary Grades	3 credit hours
EDUC 389 Literacy in the Elementary School II	3 credit hours
EDUC 410 Advanced Involvement Practicum	1 credit hour
Total Hours Required for Advanced Block	16 credit hours
The Advanced Block for elementary majors is offered mainly during the fall semester of each academic year. All classes are restricted to those students who have been admitted to the Teacher Education Program.	

Final

Class Name	Credit Hours
EDUC 458 Supervised Student Teaching Elementary School	12 credit hours
EDUC 488 Professional Interaction in the Schools	3 credit hours
Total Hours Required for Final Block	15 credit hours
The Final Block is offered during fall and spring semesters.	

III – Academic Emphasis: Elementary Generalist Curriculum | 25 Additional Hours

A GPA of 2.75 is required and no grade below “C” is acceptable.

Class Name	Credit Hours
EDUC 305 Elementary Math for Teachers**	3 credit hours
EDUC 318 Teaching Mathematics Elementary School**	3 credit hours
EDUC 363 Language Arts Instruction for Elementary & Middle** Grades	3 credit hours
EDUC 388 Literacy in the Elementary School**	3 credit hours
EDUC 328 Elementary School Social Studies**	3 credit hours
EDUC 348 Teaching Science in Elementary Grades**	3 credit hours
ECON 203 Principles of Macroeconomics	3 credit hours

Or

ECON 204 Principles of Microeconomics	3 credit hours
HIST 311 American History to 1848	3 credit hours

HIST 312	American History from 1848 to 1919	3 credit hours
HIST 313	Twentieth Century American	3 credit hours
PLSC 101	American National Government	3 credit hours
HIST 110	Roots of Civilization	3 credit hours
BIOL 109	Elements of Biology	3 credit hours
GNSC 105	Physical Science	3 credit hours

Choose 1 of the Following:

BIOL 110	Elements of Biology Lab	1 credit hour
GNSC 106	Physical Science Lab	1 credit hour
ENVS 101*	People and the Environment	4 credit hours
*ENVS 101 will substitute for BIO 109/110		
** Courses part of Pre-Professional and Advanced Block Requirements		

Middle Grades Education Curriculum

Appropriate PRAXIS II and PLT Tests must be successfully completed for certification. Also see Requirements for Admission to Student Teaching.

I - Pre-Professional Courses

Pre-professional courses for students preparing to teach Middle Grades (5-9). Minimum 2.75 GPA required.

- Liberal Education Core (or General Education transfer equivalency)
- PSYH 200, Introduction to Psychology
- WELL 131, First Aid and Safety Education
- SPAN 213, Spanish for Professional Practice

II - Professional Preparation

Professional preparation for Middle Grades Teachers (5-9). The following requirements cannot be satisfied by CLEP, independent study, or the pass/fail option. A GPA of 2.75 is required, and no grade below "C" is acceptable. To be eligible for Student Teaching: (a) All Professional Courses excluding EDUC 488, Professional Interaction in the School, must be completed, and (b) All PRAXIS II content area and PLT tests must be passed. Student must be admitted to Teacher Education to take Advanced Block classes.

Note: teacher certification requirements are subject to change. Additional fees may be required. Before registering for certification tests, refer to the EPSB website at www.kyepsb.net for current requirements or call (502) 564-4606 or call toll free (888) 598-7667.

Courses in each semester are Corequisites and must be taken together. Courses listed by semester block.

Novice

Class Name	Credit Hours
EDUC 231 Schooling in American Culture	3 credit hours
EDUC 211 Early Involvement Seminar	2 credit hours
EDUC 210 Early Involvement Practicum	1 credit hour
Total Hours Required for Novice Block	6 credit hours

The Novice Block is offered in the fall and spring semesters of each academic year.

Intermediate

Class Name	Credit Hours
EDUC 310* Intermediate Involvement Practicum	1 credit hour
SPED 321 Survey of Exceptionalities	3 credit hours
EDUC 375* Instructional Design Delivery Middle School	3 credit hours
EDUC 470 Learning Theories for P12 Educators	3 credit hours
EDUC 283 Educational Technology	3 credit hours
*Must be taken concurrently	
Total Hours Required for Intermediate Block	13 credit hours
The Intermediate Block is offered in the fall and spring semesters of each academic year.	

Advanced

Class Name	Credit Hours
EDUC 338 Teaching Reading in Content Subject	3 credit hours
EDUC 388 Literacy in the Elementary School	3 credit hours
EDUC 437* Methods and Materials in Middle School	3 credit hours
EDUC 410* Advanced Involvement Practicum	1 credit hour
*Must be taken concurrently	
Total Hours Required for Advanced Block	10 credit hours
The Advanced Block for middle school majors is offered mainly during the spring semester of each academic year. All classes are restricted to those students who have been admitted to the	

Final

Class Name	Credit Hours
EDUC 478 Supervised Student Teaching Middle Grades	12 credit hours
EDUC 488 Professional Interaction in the School	3 credit hours
Total Hours Required for Final Block	15 credit hours
The Final Block is offered during fall and spring semesters.	

III – Teaching Fields

Each student will complete a minimum of 24 semester hours in one or two fields of study, with a minimum GPA of 2.75 required in each teaching field, and no grade below a “C” is acceptable. Students who choose English/Communication as an academic emphasis must complete a 200-level English course prior to taking courses within the English/Communication emphasis.

English / Communication | 24 Total Hours

Class Name	Credit Hours
COMM 221 Introduction to Media Studies	3 credit hours
ENGL 310 Major Author	3 credit hours
EDUC 363 Language Arts Instruction for Elementary & Middle Grades	3 credit hours
ENGL 421 History of the English Language	3 credit hours

Choose 1 of the Following:

ENGL 316: Creative Nonfiction Writing	3 credit hours
ENGL 317: Screenwriting	3 credit hours
ENGL 318 Fiction Writing	3 credit hours
ENGL 319 Poetry Writing	3 credit hours

Choose 1 of the Following:

ENGL 327	Theories of Rhetoric and Composition	3 credit hours
ENGL 402	Advanced Comp	3 credit hours

Choose 1 of each the Following:

Period Courses		
ENGL 320	Medieval Lit	3 credit hours
ENGL 321	Early Modern Lit	3 credit hours
ENGL 322	Restoration 18 th Century Lit	3 credit hours
ENGL 323	19 th Century Lit	3 credit hours
ENGL 431	Contemporary American Lit	3 credit hours
Genre Courses		
ENGL 351	English Novel I	3 credit hours
ENGL 352	English Novel II	3 credit hours
ENGL 451	Modern Poetry	3 credit hours
ENGL 452	American Novel	3 credit hours
ENGL 471	Shakespeare	3 credit hours

Mathematics | 25 Total Hours

Class Name	Credit Hours
MATH 131 College Algebra	3 credit hours
EDUC 305 Elementary Math for Teachers	3 credit hours
MATH 230 Elementary Probability & Statistics	3 credit hours
MATH 241 Differential Calculus & Analytic Geometry	4 credit hours
MATH 301 Principles of Geometry	3 credit hours
MATH 133 Trigonometry and Analytic Geometry	3 credit hours

Choose 2 of the Following:

MATH 242	Intermediate Calculus & Analytic Geometry	4 credit hours
MATH 243	Multivariate Calculus	3 credit hours
MATH 321	Discrete Mathematics	3 credit hours
MATH 331	Linear Algebra	3 credit hours

Sciences | 20 Total Hours

Class Name	Credit Hours
BIOL 111 General Biology	4 credit hours
BIOL 232 General Zoology	4 credit hours
GNSC 105 Physical Science	3 credit hours
GNSC 106 Physical Science Lab	1 credit hour
BIOL 223 General Botany	4 credit hours

Choose 1 of the Following:

CHEM 121	General Chemistry & Lab	4 credit hours
PHYS 111/113	College Physics & Lab	4 credit hours

Social Studies | 24 Total Hours

Class Name		Credit Hours
HIST 110	Roots of Civilization	3 credit hours
PLSC 101	American National Government	3 credit hours
HIST 235	Kentucky History	3 credit hours

Choose 1 of the Following:

HIST 311	American History to 1848	3 credit hours
HIST 312	American History from 1848 to 1919	3 credit hours

Choose 1 of the Following:

ANTH 221	Cultural Anthropology	3 credit hours
SOCI 131	Intro Sociology	3 credit hours
1 Elective (choose 1, 3-hour course) at the 300+ level from: History, Political Science, or Sociology		3 credit hours

Choose 1 of the Following:

ECON 203	Macroeconomics	3 credit hours
ECON 204	Microeconomics	3 credit hours
1 300+ Elective: World History		3 credit hours

Secondary Education Curriculum

Union College offers a variety of certification areas for secondary students. In accordance with state certification regulations, students wishing to teach at the secondary level must complete preparation in a standards-based format that is equivalent to a teaching field or specialization area.

Further, for certification the student must have a minimum cumulative GPA of 2.75 on a 4.0 scale on the last 60 hours of credit completed. Union College offers programs that lead to secondary certification (grades 8-12) in the following: Biology; Chemistry; English; Mathematics; and Social Studies. Multi-grade certification is available in Physical Education (P12) and Health (P12). See appropriate sections of catalogue for details. Appropriate PRAXIS II and PLT tests must be successfully completed for certification. Also see Requirements for Admission to Student Teaching.

Note: teacher certification requirements are subject to change. Additional fees may be required. Before registering for certification tests, refer to the EPSB website at www.kyepsb.net for current requirements or call (502) 564-4606 or call toll free (888) 598-7667.

I - Pre-Professional Courses

Pre-professional courses for students preparing to teach Secondary Education (8-12). Minimum GPA 2.75 required.

- Liberal Education Core (or General Education transfer equivalency)
- PSYH 200, Introduction to Psychology
- WELL 131, First Aid and Safety Education
- SPAN 213, Spanish for Professional Practice

II - Professional Preparation

Professional preparation for Secondary Teachers (8-12). The following requirements cannot be satisfied by CLEP, independent study, or pass/fail option. A GPA of 2.75 is required, and no grade below "C" is acceptable. To be eligible for Student Teaching: (a) All Professional Courses excluding EDUC 488, Professional Interaction in the School, must be completed, and (b) All PRAXIS II content area and PLT tests must be passed. Candidate must be admitted to Teacher Education to take Advanced Block courses.

Courses in each semester are Corequisites and must be taken together. Courses are listed by semester block.

Novice

Class Name	Credit Hours
EDUC 231 Schooling in American Culture	3 credit hours
EDUC 211 Early Involvement Seminar	2 credit hours
EDUC 210 Early Involvement Practicum	1 credit hour
Total Hours Required for Novice Block	6 credit hours
The Novice Block is offered in the fall and spring semesters of each academic year.	

Intermediate

Class Name	Credit Hours
EDUC 283 Educational Technology	3 credit hours
EDUC 310* Intermediate Involvement Practicum	1 credit hour
SPED 321 Survey of Exceptionalities	3 credit hours
EDUC 376* Instructional Design & Delivery Secondary School	3 credit hours
EDUC 470 Learning Theories for P12 Educators	3 credit hours
*Must be taken concurrently	
Total Hours Required for Intermediate Block	13 credit hours
The Intermediate Block is offered in the fall and spring semesters of each academic year.	

Advanced

Class Name	Credit Hours
EDUC 338 Teaching Reading in Content Subject	3 credit hours
EDUC 447* Methods and Materials Secondary School	3 credit hours
EDUC 410 Advanced Involvement Practicum	1 credit hour
*Must be taken concurrently	
Total Hours Required for Advanced Block	7 credit hours
The Advanced Block for secondary majors is offered during the fall semesters of each academic year. All classes are restricted to those students who have been admitted to the Teacher Education Program.	

Final

Class Name	Credit Hours
EDUC 498 Supervised Student Teaching Secondary School	12 credit hours
EDUC 488 Professional Interaction in the School	3 credit hours
Total Hours Required for Final Block	15 credit hours
The Final Block is offered during fall and spring semesters.	

III – Teaching Fields

The following are teaching certification area options for the B.A. degree in Secondary Education. Students must choose one certification area.

English / Communication Certification | 36 Hours

Class Name	Credit Hours
COMM 221 Introduction to Media Studies	3 credit hours
ENGL 310 Major Author	3 credit hours
ENGL 421 History of the English Language	3 credit hours
ENGL 471 Shakespeare	3 credit hours

Choose 1 of the Following:

ENGL 316:	Creative Nonfiction Writing	3 credit hours
ENGL 317:	Screenwriting	3 credit hours
ENGL 318	Fiction Writing	3 credit hours
ENGL 319	Poetry Writing	3 credit hours

Choose 2 of the Following:

ENGL 327	Theories of Rhetoric and Composition	3 credit hours
ENGL 402	Advanced Comp	3 credit hours
ENGL 427	Directed Writing	3 credit hours

Choose 6 hours in Period & 6 hours in Genre

Period Courses		
ENGL 320	Medieval Lit	3 credit hours
ENGL 321	Early Modern Lit	3 credit hours
ENGL 322	Restoration 18 th Century Lit	3 credit hours
ENGL 323	19 th Century Lit	3 credit hours
ENGL 431	Contemporary American Lit	3 credit hours
Genre Courses		
ENGL 351	English Novel I	3 credit hours
ENGL 352	English Novel II	3 credit hours
ENGL 451	Modern Poetry	3 credit hours
ENGL 452	American Novel	3 credit hours

Social Studies Certification | 36 Hours

Class Name	Credit Hours
HIST 211 Topics in Global History	3 credit hours
HIST 311 American History to 1848	3 credit hours
ECON 203 Principles of Macroeconomics	3 credit hours
ECON 204 Principles of Microeconomics	3 credit hours
PLSC 101 American National Government	3 credit hours

Choose 1 of the Following:

HIST 312	US History 1848-1919	3 credit hours
HIST 313	US History 1919-Present	3 credit hours

Choose 3 of the Following:

World History		
HIST 221	History & Culture of Spain/Portugal	3 credit hours
HIST 223	History of Latin America	3 credit hours
HIST 231	Topics in Late Classic & Medieval History	3 credit hours
HIST 241	History of Britain to 1485	3 credit hours
HIST 242	History of Britain 1485-1832	3 credit hours
HIST 443	Modern Britain	3 credit hours
HIST 451	Topics in Early European History	3 credit hours
HIST 452	Topics in Modern European History	3 credit hours
HIST 461	Islamic Religion & Civilization	3 credit hours
HIST 474	Topics in Latin America	3 credit hours
HIST 476	Special Topics in World History	3 credit hours

Choose 3 of the Following:

US History		
HIST 235	Kentucky History	3 credit hours
HIST 301	Readings in American History	1 credit hour
HIST 312	American History 1850-1919	3 credit hours
HIST 313	American History 1919-Present	3 credit hours
HIST 409	American Religion & Society	3 credit hours
HIST 431	American Revolutionary Era	3 credit hours
HIST 433	History of Appalachia	3 credit hours
HIST 441	Civil War & Reconstruction	3 credit hours
HIST 475	Special Topics in America History	3 credit hours

Biology Certification | 36 Hours

Class Name		Credit Hours
BIOL 111	General Biology	4 credit hours
BIOL 232	General Zoology	4 credit hours
BIOL 233	General Botany	4 credit hours

Choose 6 of the Following

BIOL 330	Vertebrate Anatomy & Histology	4 credit hours
BIOL 331	Human Physiology	4 credit hours
BIOL 362	Transmission & Population Genetics	4 credit hours
BIOL 363	Molecular Genetics	4 credit hours
BIOL 421	Biochemistry	4 credit hours
BIOL 431	Cell Biology	4 credit hours
BIOL 441	Ecology	4 credit hours

Chemistry Certification | 36 Hours

Class Name		Credit Hours
CHEM 121	General Chemistry I	4 credit hours
CHEM 122	General Chemistry II	4 credit hours
CHEM 212	Analytical Chemistry	4 credit hours
CHEM 311	Organic Chemistry I	5 credit hours
CHEM 312	Organic Chemistry II	5 credit hours
CHEM 313	Descriptive Physical Chemistry	3 credit hours
CHEM 411	Inorganic Chemistry	4 credit hours

Choose 2 of the Following:

CHEM 332	Physical Chemistry	3 credit hours
CHEM 381	Special Topics	3 credit hours
PHYS 111	College Physics	3 credit hours
PHYS 112	College Physics II	3 credit hours
BIOL 421	Biochemistry	3 credit hours

Choose 1 of the Following:

CHEM 314	Physical Chemistry Lab	1 credit hour
GNSC 471	Science Seminar	1 credit hour
PHYS 113	College Physics Lab I	1 credit hour
PHYS 114	College Physics Lab II	1 credit hour

Mathematics Certification | 39 Hours

Class Name	Credit Hours
MATH 131 College Algebra	3 credit hours
MATH 133 Trigonometry & Analytical Geometry	3 credit hours
MATH 230 Elementary Probability & Statistics	3 credit hours
MATH 241 Differential Calculus & Analytic Geometry	4 credit hours
MATH 242 Intermediated Calculus & Analytic Geometry	4 credit hours
MATH 243 Multivariate Calculus & Analytic Geometry	4 credit hours
MATH 301 Principles of Geometry	3 credit hours
MATH 321 Discrete Mathematics	3 credit hours
MATH 331 Intro to Linear Algebra	3 credit hours
MATH 433 Intro to Abstract Algebra	3 credit hours

Choose 2 of the Following:

MATH 110 Topics in Contemporary Math	3 credit hours
MATH 332 Linear Algebra	3 credit hours
MATH 403 Analysis	3 credit hours

Multi-Grade Curriculum: Health and Physical Education

Union College offers multi-grade certification in Health and Physical Education (P12). In accordance with state certification regulations, students wishing to teach at the primary through secondary level must complete preparation in a standards-based format that is equivalent to a teaching field or specialization area. Further, the student must have a minimum GPA for certification of cumulative 2.75 on a 4.0 scale on the last 60 hours of credit completed. Multi-grade certification is available in Health & Physical Education (P12). See appropriate sections of catalogue for details. Appropriate PRAXIS II and PLT tests must be successfully completed for certification. Also see Requirements for Admission to Student Teaching.

Note: teacher certification requirements are subject to change. Additional fees may be required. Before registering for certification tests, refer to the EPSB website at www.kyepsb.net for current requirements or call (502) 564-4606 or call toll free (888) 598-7667.

I - Pre-Professional Courses

Pre-professional courses for students preparing for multi-grade certification (P12). Minimum GPA 2.75 required.

- A. Union College Liberal Education Core (General Education transfer equivalency)
- B. PSYH 200, Introduction to Psychology
- C. WELL 131, First Aid and Safety Education
- D. SPAN 213, Spanish for Professional Practice

II - Professional Preparation

Professional preparation for multi-grade certification (P12). The following requirements cannot be satisfied by CLEP, independent study, or pass/fail option. A GPA of 2.75 is required, and no grade below "C" is acceptable. To be eligible for Student Teaching (EDUC 498, Supervised Student Teaching

Secondary School), all courses excluding EDUC 488, Professional Interaction in the School, must be completed.

Courses in each semester are Corequisites and must be taken together. Courses are listed by semester block.

Novice

Class Name	Credit Hours
EDUC 231 Schooling in American Culture	3 credit hours
EDUC 211 Early Involvement Seminar	2 credit hours
EDUC 210 Early Involvement Practicum	1 credit hour
Total Hours Required for Novice Block	6 credit hours
The Novice Block is offered in the fall and spring semesters of each academic year.	

Intermediate

Class Name	Credit Hours
EDUC 283 Educational Technology	3 credit hours
EDUC 310* Intermediate Involvement Practicum	1 credit hour
SPED 321 Survey of Exceptionalities	3 credit hours
EDUC 376* Instructional Design & Delivery Secondary School	3 credit hours
EDUC 470 Learning Theories for P12 Educators	3 credit hours
*Must be taken concurrently	
Total Hours Required for Intermediate Block	13 credit hours
The Intermediate Block is offered in the fall and spring semesters of each academic year.	

Advanced

Class Name	Credit Hours
EDUC 338 Teaching Reading in Content Subject	3 credit hours
EDUC 447* Methods and Materials Secondary School	3 credit hours
EDUC 410 Advanced Involvement Practicum	1 credit hour
*Must be taken concurrently	
Total Hours Required for Advanced Block	7 credit hours
The Advanced Block for secondary majors is offered during the fall semesters of each academic year. All classes are restricted to those students who have been admitted to the Teacher Education Program.	

Final

Class Name	Credit Hours
EDUC 498 Supervised Student Teaching Secondary School	12 credit hours
EDUC 488 Professional Interaction in the School	3 credit hours
Total Hours Required for Final Block	15 credit hours
The Final Block is offered during fall and spring semesters.	

III – Teaching Field: Health & Physical Education

P-12 Certification in Health & Physical Education | 39 Hours

These requirements may not be satisfied by CLEP or the pass/fail option. A minimum 2.75 GPA is required, and no grade below “C” is acceptable.

Class Name	Credit Hours
WELL 178 Life Choices	3 credit hours

WELL 361	Principles of Nutrition	3 credit hours
WELL 275	Foundations of Health Science	3 credit hours
WELL 311	Health Education - K-12	3 credit hours
WELL 131	First Aid and Safety Education	3 credit hours
WELL 350	Administration of Public Health	3 credit hours
WELL 340	Anatomy & Physiology	3 credit hours
PHED 420	Physical Education: Exceptional Child	3 credit hours
PHED 261	Physical Education: Elementary School	3 credit hours
PHED 340	Motor Development	3 credit hours
PHED 351	Tests and Measurement in Health & Physical Education	3 credit hours
PHED 421	Kinesiology (\$25 consumable items fee required)	3 credit hours
PHED 461	Physical Education: Secondary School	3 credit hours

Substitute Teaching (Associate Degree)

The Substitute Teacher Program (Non-Licensure) Associate of Science Degree provides students with knowledge and skills that support service as a substitute teacher. The program includes courses in Union's Liberal Education Core, in educational studies, and in one or more content areas of the student's choice. The program does not lead to KY teaching licensure, but coursework includes many of the foundational courses in Union's education programs and thus offers a pathway toward a Bachelor's degree and teaching licensure for students who wish to continue their studies.

The table below outlines the requirements in the three areas: Union College Liberal Education Core, Educational Studies, and the content area component.

Union College Liberal Education Core (22hrs)

	Required Course	Hrs.	Transfer/Substitution & Inst.	Grade
	ENGL 111: First-Year Comp. I	3		
	ENGL 112: First-Year Comp. II	3		
	HIST 110: Roots of Civilization OR HIST 211: Topics in Global History	3		
	MATH 110: Topics in Contemporary Mathematics OR MATH 131: College Algebra	3		
	Natural Science Course	3		
	PSYH 200: Intro. To Psychology	3		
	Wellness OR Fine Arts Course	3		
	GNST 381: College Success	1		

Core GPA _____

Educational Studies Component (22hrs)

	Required Course	Hrs.	Transfer/Substitution & Inst.	Grade
	EDUC 231: Sch/Am Culture	3		
	EDUC 210: Early Inv. Practicum	1		
	EDUC 211: Early Inv. Seminar	2		
	EDUC 374/75/76: Inst D&D	3		
	EDUC 310: Inter Inv. Practicum	1		
	EDUC 283: Educ. Technology	3		
	SPED 321: Survey of Except	3		
	PSYH 210: Child Development OR PSYH 225: Adolescent Psychology	3		
	PSYH 275: Cross Cultural Psychology	3		

Component GPA _____

Content Area Component (21hrs) *

	Required Course	Hrs.	Transfer/Substitution & Inst.	Grade

* Students may select 21hrs of content area coursework from the following: Math, Science, English, History, Fine, Performing and Communications Arts, or Social and Behavioral Sciences. These hours do not have to come from the same content area.

Component GPA _____

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English

English Major Requirements – Students Take the Following Courses (3 Credit Hours Each) | 36 Total Hours.

Class Name	Credit Hours
ENGL 310 Major Author***	3 credit hours
ENGL 421 History of the English Language	3 credit hours
ENGL 471 Shakespeare	3 credit hours
ENGL 472 Capstone Project*****	3 credit hours

Six (6) credits from among the following courses:

ENGL 315 *Creative Writing	3 credit hours
ENGL 327 Theories of Composition & Rhetoric	3 credit hours
ENGL 334 Small Group Writing Instruction	1 credit hour
ENGL 340 Writing in the Disciplines	3 credit hours
ENGL 410 Writing and the Environment	3 credit hours
ENGL 427 Directed Writing	3 credit hours
ENGL 485 Internship: Editing and Publishing	1 credit hour

Choose 1 cultural studies course from the following:

ENGL 235 Southern Literature	3 credit hours
ENGL 252 Appalachian Literature	3 credit hours
ENGL 262 African American Literature	3 credit hours

Choose 2 survey courses from the following:**

ENGL 211 Western Literature in Translation	3 credit hours
ENGL 212 Non-Western Literature in Translation	3 credit hours
ENGL 221 Survey of English Literature I	3 credit hours
ENGL 222 Survey of English Literature II	3 credit hours
ENGL 231 Survey of American Literature I	3 credit hours
ENGL 232 Survey of American Literature II	3 credit hours

Choose 2 period courses** from the following:**

ENGL 320 Medieval English Literature	3 credit hours
ENGL 321 Early Modern Literature	3 credit hours
ENGL 322 Restoration/Eighteenth Century Literature	3 credit hours
ENGL 323 Nineteenth Century Literature	3 credit hours
ENGL 431 Contemporary American Literature Fiction	3 credit hours

Choose 2 genre courses*** from the following:**

ENGL 320 Medieval English Literature	3 credit hours
ENGL 321 Early Modern Literature	3 credit hours
ENGL 351 The English Novel I	3 credit hours
ENGL 352 The English Novel II	3 credit hours
ENGL 451 Modern Poetry	3 credit hours
ENGL 452 American Novel	3 credit hours

English Literature **Minor** Requirements (3 Credit Hours Each) | 24 Total Hours

All these **Minor** requirements:

Class Name	Credit Hours
ENGL 310 Major Author***	3 credit hours
ENGL 471 Shakespeare	3 credit hours
ENGL 472 Capstone Project*****	3 credit hours

Choose 3 courses from the following:**

ENGL 211 Western Literature in Translation	3 credit hours
ENGL 212 Non-Western Literature in Translation	3 credit hours
ENGL 221 Survey of English Literature I	3 credit hours
ENGL 222 Survey of English Literature II	3 credit hours
ENGL 231 Survey of American Literature I	3 credit hours
ENGL 232 Survey of American Literature II	3 credit hours

Choose 1 period course ** from the following:**

ENGL 320 Medieval English Literature	3 credit hours
ENGL 321 Early Modern Literature	3 credit hours
ENGL 322 Restoration/Eighteenth Century Literature	3 credit hours
ENGL 323 Nineteenth Century Literature	3 credit hours
ENGL 431 Contemporary American Literature Fiction	3 credit hours

Choose 1 genre course from the following:

ENGL 320 Medieval English Literature	3 credit hours
ENGL 321 Early Modern Literature	3 credit hours
ENGL 351 The English Novel I	3 credit hours
ENGL 352 The English Novel II	3 credit hours
ENGL 452 American Novel	3 credit hours

*Only 3 credit hours from ENGL 316, ENGL 317, ENGL 318, and ENGL 319 may count towards the completion of this requirement.

**Students in the English program must also fulfill the College's Core requirement for Literature by taking an additional 200-level ENGL course.

***ENGL 310 (Major Author) is the English foundational course and should, except under special circumstances, be completed in fall of the student's junior year.

****ENGL 320 (Medieval English Literature) and ENGL 321 (Early Modern Literature) may be taken for either period or genre credit, but not for both.

*****ENGL 472 (Capstone Project) should be taken during the student's last year.

With communications and critical thinking persistently topping the list of skills employers want, students find the major and the minor in English valuable in developing these practical abilities. Through the close study of texts and practice in thinking, writing, speaking, and careful listening, students become better prepared for the demands of the present, and they develop the skills and mental habits necessary to confront the challenges of an ever-changing world.

English majors and minors find careers in a variety of fields, including teaching, business and industry, public relations, and journalism. In addition, the English program provides excellent preparation for graduate study, as well as for medical and law school. Union's English majors regularly present their scholarship at academic conference and will have the opportunity to work on the editorial team for an MLA-indexed journal. Courses taken as electives enhance students' analytical and forensic abilities, complementing their coursework in such programs as nursing and criminal justice.

Bachelor of Arts or Bachelor of Science with a Major in English

Upon graduation from Union College with a major in English, students should be able to:

- Produce written texts that follow the conventions of Standard English usage that are clear, organized, developed and thoughtful, and that demonstrate awareness of audience.
- Interpret texts with understanding, appreciation, and judgment.
- Discuss texts in their cultural contexts.
- Demonstrate knowledge of the history and structure of the English language.
- Demonstrate knowledge of major traditions in literature.
- Students may choose either the Bachelor of Science or the Bachelor of Arts. For the Bachelor of Arts (strongly recommended for further degrees in English and other graduate study), students complete the equivalent of four (4) semesters of a single foreign language (not native to the student) or two (2) semesters of each of two (2) foreign languages, in addition to the following courses.

A general prerequisite for any English (ENGL) course numbered 300 and above is successful completion of any 200-level ENGL course. Majors should complete the foundational course, ENGL 310 (Major Author), as early as possible and should take the Capstone Project course, ENGL 472, in their senior year. Courses with changed emphases may be repeated for further credit. Except for ENGL 472, all English courses numbered 300 and above are available for elective credit and upon request, for graduate credit.

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Exercise Science

The Exercise major requires semester hours which must include the following courses, plus 3-5 hours of activity courses. Exercise Science majors can count only 3 activity courses toward the major. If more than 3 activity courses are taken, the first 3 courses will count toward the major's GPA. A maximum of 8 semester hours of activity courses may be credited toward graduation.

Requirements for Exercise Science Major (B.S.) | 44 - 50 Required Semester Hours

Class Name		Credit Hours
Science Core, 14-15 required hours:		
BIOL 101	Human Biology	3 credit hours
Or		
BIOL 109	Elements of Biology	3 credit hours
BIOL 330	Vertebrate Anatomy & Histology	4 credit hours
BIOL 331	Human Physiology	4 credit hours
CHEM 230	General, Organic & Biochemistry	3 credit hours
Or		
CHEM 121	General Chemistry 1	4 credit hours
Exercise Science Core, 27-30 required hours:		
HMPF 441	Exercise Assessment & Prescription (\$25 consumable items	3 credit hours
PHED 241	History/Philosophy of Physical Education	3 credit hours
PHED 340	Motor Development	3 credit hours
PHED 351	Tests and Measurement in Health & Physical Education	3 credit hours
PHED 361	Organization & Administration: Physical Education	3 credit hours
PHED 410	Exercise Physiology (\$25 consumable items fee required)	3 credit hours
PHED 421	Kinesiology (\$25 consumable items fee required)	3 credit hours
EXSC 485	Exercise Science Internship	3-6 credit hours
WELL 131	First Aid and Safety Education	3 credit hours
Activity Courses (3 classes, 3-5 hours):		
PHED 111	Beginning Swimming	1 credit hour
PHED 112	Intermediate Swimming	1 credit hour
PHED 114	Water Aerobics	1 credit hour
PHED 116	Yoga	1 credit hour
PHED 121	Team Sports	1 credit hour
PHED 122	Volleyball	1 credit hour
PHED 132	Golf	1 credit hour
PHED 133	Tennis and Badminton	1 credit hour
PHED 134	Personal Fitness & Aerobic Activities	1 credit hour
PHED 136	Weight Training	1 credit hour
RECM 190	Special Topics	1 credit hour
PHED 192	Lifeguard Training	3 credit hours

Requirements for Exercise Science Minor | 26 Hours

Twenty-six (26) semester hours, which must include all required classes listed below. Note: students who declare the Exercise Science **Minor** may not declare a major or **minor** in Human Performance.

Class Name		Credit Hours
PHED 351	Tests and Measurement in Health & Physical Education	3 credit hours
PHED 410	Exercise Physiology (\$25 consumable items fee required)	3 credit hours

PHED 421	Kinesiology (\$25 consumable items fee required)	3 credit hours
HMPF 441	Exercise Assessment & Prescription (\$25 consumable items fee required)	3 credit hours
BIOL 330	Vertebrate Anatomy & Histology	4 credit hours
BIOL 331	Human Physiology	4 credit hours
PHED 340	Motor Development	3 credit hours
WELL 131	First Aid and Safety Education	3 credit hours

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General Business

General Business is offered in both a traditional on campus format and as a fully online program.

Required Courses for all Accounting, Business Management, and Marketing Majors | 18 Credit Hours

Class Name		Credit Hours
ACTG 270	Accounting for Managers 3 credit hours	3 Credit Hours
Or		
ACTG 271	Managerial Accounting 3 credit hours	3 Credit Hours
BUAD 151	Business Essentials 3 credit hours	3 Credit Hours
BUAD 302	Business Communications 3 credit hours	3 Credit Hours
BUAD 310	Legal Environment of Business 3 credit hours	3 Credit Hours
CIS 241	Intermediate Technology Applications 3 credit hours	3 Credit Hours
ECON 204	Principles of Microeconomics	3 Credit Hours

Requirements for General Business Major (B.S.) | 39 Credit Hours

Class Name		Credit Hours
ACTG 270	Accounting for Managers	3 credit hours
Or		
ACTG 271	Managerial Accounting	3 credit hours
BUAD 151	Business Essentials	3 credit hours
BUAD 302	Business Communications	3 credit hours
BUAD 310	Legal Environment of Business	3 credit hours
CIS 241	Intermediate Technology Applications	3 credit hours
ECON 204	Principles of Microeconomics	3 credit hours
MKTG 321	Principles of Marketing	3 credit hours
MGMT 352	Principles of Management	3 credit hours
General Electives, 15 credit hours in ACTG, BUAD, ECON, MGMT, MKTG, or other business disciplines; 9 of the 15 hours must be at level 300+		15 credit hours

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General Studies

The General Studies Major may be completed on campus or online.

Requirements for General Studies B.S. Major | 39 Hours

Primary Area of Focus | 24 hours

Students will select a primary academic emphasis area in which they have completed at least 24 credit hours. These may include disciplines not represented by a major at Union for transfer students.

Secondary Area of Focus | 15 hours

Students will select a secondary academic emphasis area in which they have completed at least 15 hours. These may include disciplines not represented by a major at Union for transfer students.

- Additional requirements for General Studies Majors:
- The Liberal Education Core must be completed.
- General Studies requires 39 credits which includes a primary academic emphasis area with 24 credits and a secondary academic emphasis area with another 15 credits. Twenty-four (24) hours in the primary and secondary academic emphasis areas must be taken in upper division course work (300+ level classes).
- Students must have a total of 39 upper division hours (level 300+ courses) for graduation.
- Students must earn a total of 120 credit hours for graduation.
- Students must have a minimum 2.0 GPA for graduation.

Students wishing to transfer more than 24 hours in a single discipline may petition to transfer those hours, but no additional hours taken in that discipline will count toward the General Studies degree.

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Health

Requirements for Health Minor | 25 Credit Hours

Twenty-five (25) semester hours, which must include all of the required classes listed below, plus 4 hours (4, 1-hour) Physical Education Activity courses, and 1 (3 hour) Health Elective course:

Class Name		Credit Hours
Required courses, 18 hours:		
PHED 351	Tests and Measurement in Health & Physical Education	3 credit hours
WELL 178	Life Choices	3 credit hours
WELL 275	Foundations of Health Science	3 credit hours
WELL 340	Anatomy & Physiology	3 credit hours
WELL 475	Critical Areas in Health	3 credit hours
WELL 361	Principles of Nutrition	3 credit hours
Or		
WELL 461	Nutrition for Special Needs	3 credit hours
Physical Education Activity courses, 4 courses:		4-6 hours
PHED 1XX		1 credit hour
PHED 1XX		1 credit hour
PHED 1XX		1 credit hour
PHED 1XX		1 credit hour
Health Elective courses, choose 1 course:		
WELL 131	First Aid and Safety Education	3 credit hours
WELL 252	Mental Health	3 credit hours
WELL 272	Drugs and Society	3 credit hours
WELL 350	Administration of Public Health	3 credit hours
WELL 361	Principles of Nutrition	3 credit hours
WELL 451	School and Community Health Workshop	3 credit hours
WELL 461	Nutrition for Special Needs	3 credit hours
WELL 485	Health Promotion Internship	3-6 credit hours
WELL 495	Independent Study	3 credit hours

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Health Promotion

The Health Promotion major is designed for individuals who do not wish to enter the teaching profession but do wish to seek employment in a health-related position. Requires 36-39 semester hours, plus 6 hours of elective courses (selected from Health Promotion Elective courses):

Requirements for Health Promotion Major (B.S.) | 36 - 39 Required Semester Hours

Class Name	Credit Hours
WELL 131 First Aid and Safety Education	3 credit hours
WELL 178 Life Choices	3 credit hours
WELL 252 Mental Health	3 credit hours
WELL 272 Drugs and Society	3 credit hours
WELL 275 Foundations of Health Science	3 credit hours
WELL 311 Health Education - K-12	3 credit hours
WELL 340 Anatomy & Physiology	3 credit hours
WELL 350 Administration of Public Health	3 credit hours
WELL 361 Principles of Nutrition	3 credit hours

Or

WELL 461 Nutrition for Special Needs	3 credit hours
WELL 485 Health Promotion Internship	3-6 credit hours
6 hours of Health Promotion Elective courses:	
PHED 351 Tests and Measurement in Health & Physical Education	3 credit hours
WELL 451 School and Community Health Workshop	3 credit hours
WELL 461 Nutrition for Special Needs	3 credit hours
WELL 475 Critical Areas in Health	3 credit hours
WELL 495 Independent Study	1-3 credit hours

Requirements for Health & Physical Education (Teaching) B.S. Major | 38 More Hours (See Education Section)

Students preparing to teach in Kentucky will receive both elementary and secondary certification by fulfilling the requirements of this program and passing the Praxis II test. It is strongly recommended that those students pursuing teaching certification in physical education also pursue a health promotion major. Please consult the Educational Studies section of the catalogue to determine other requirements for admission to and completion of the Teacher Education program.

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History

Requirements for History Major (B.A.) | 44 Semester Hours (Including 12 hours foreign language)

Class Name	Credit Hours
Program Core (14 hours) – required courses:	
HIST 211 Topics in Global History	3 credit hours
HIST 212 Historical Research and Methods	3 credit hours
HIST 301 Readings in U.S. History	1 credit hour
HIST 302 Readings in Non-U.S. History	1 credit hour
HUMN 477 Philosophy of Life	3 credit hours
HIST 476 Special Topics in World History	3 credit hours

Or

HIST 475 Special Topics: American History	3 credit hours
U.S. History (9 hours) – students will complete 3 of the following courses:	
HIST 311 American History to 1848	3 credit hours
HIST 312 American History from 1848 to 1919	3 credit hours
HIST 408 American Presidency	3 credit hours
HIST 413 Twentieth Century America	3 credit hours
HIST 431 American Revolutionary Era 1763-1789	3 credit hours
HIST 433 History of Appalachia	3 credit hours
HIST 441 Civil War & Reconstruction 1848-1877	3 credit hours
HIST 495 Independent Study course: U.S. History	3 credit hours

Non-U.S. History (9 hours) – students will complete 3 of the following courses:

HIST 110 Roots of Civilization	3 credit hours
HIST 221 History and Culture of Spain and Portugal	3 credit hours
HIST 223 History of Latin America	3 credit hours
HIST 241 History of Britain to 1485	3 credit hours
HIST 242 History of Britain from 1485-1832	3 credit hours
HIST 331 Late Classic & Medieval History Topics	3 credit hours
HIST 443 Modern Britain	3 credit hours
HIST 446 History of Russia	3 credit hours
HIST 451 Topics in Early European History	3 credit hours
HIST 452 Topics in Modern European History	3 credit hours
HIST 461 Islamic Religion & Civilization	3 credit hours
HIST 495 Independent Study course: Non-U.S. History	3 credit hours

Foreign Language Component (12 hours) – students must complete 12 hours of foreign language study. Students may substitute up to 6 hours of Logic for foreign language

Foreign language course	3 credit hours
Foreign language course	3 credit hours
Foreign language course	3 credit hours
Foreign language course	3 credit hours

Requirements for History Major (B.S.) | 32 Semester Hours (Required Courses)

Class Name	Credit Hours
HIST 211 Topics in Global History	3 credit hours

HIST 212	Historical Research and Methods	3 credit hours
HIST 301	Readings in U.S. History	1 credit hour
HIST 302	Readings in Non-U.S. History	1 credit hour

Elective Hours:

U.S. History	12 credit hours
Non-U.S. History	12 credit hours

One of the elective courses must be:

HIST 475	Special Topics: American History	3 credit hours
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Or

HIST 476	Special Topics in World History	3 credit hours
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Or

HUMN 477	Philosophy of Life	3 credit hours
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Requirements for Minor in History | 21 semester hours in History including:

Class Name		Credit Hours
HIST 211	Topics in Global History	3 credit hours

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History and Political Science

Requirements for History and Political Science Major | 36 Semester Hours (Required Courses)

Class Name	Credit Hours
Program Core (12 Hours) – Required Courses	
HIST 212 Historical Research and Methods	3 credit hours
HIST 301 Readings in U.S. History	1 credit hour
Or	
HIST 302: Readings in Non-U.S. History	1 credit hour
PLSC 101 American National Government	3 credit hours
HIST 476 Special Topics in World History	3 credit hours
HUMN 477 Philosophy of Life (Capstone Course)	3 credit hours
U.S. History Elective Courses (6 Hours) – Students will complete 2 of the following courses:	
HIST 235 Kentucky History	3 credit hours
HIST 311 American History to 1848	3 credit hours
HIST 312 American History 1848 to 1919	3 credit hours
HIST 313 Twentieth Century America	3 credit hours
HIST 409 American Religion & Society	3 credit hours
HIST 431 American Revolutionary Era 1763-1789	3 credit hours
HIST 433 History of Appalachia	3 credit hours
HIST 475 Special Topics in American History	3 credit hours
Non-U.S. History Elective Courses (3 Hours) – Students will complete 1 of the following	
HIST 223 History of Latin America	3 credit hours
HIST 241 History of Britain to 1485	3 credit hours
HIST 242 History of Britain from 1485-1832	3 credit hours
HIST 331 Late Classic & Medieval History Topics	3 credit hours
HIST 443 Modern Britain	3 credit hours
HIST 446 History of Russia	3 credit hours
HIST 451 Topics in Early European History	3 credit hours
HIST 452 Topics in Modern European History	3 credit hours
HIST 461 Islamic Religion & Civilization	
HIST 474 Topics in Latin American History	
Political Science Courses (15 Hours)	
PLSC 405 / CRJU 405 The American Founding	3 credit hours
PLSC 408 American Presidency	3 credit hours
PLSC 306 / CRJU 306 Special Topics in Political Science / Topics in	3 credit hours
PLSC 483 / CRJU 483 Constitutional Law II: National Powers	3 credit hours
PLSC 486 / CRJU 486 Constitutional Law I: Civil Liberties	3 credit hours
PLSC 382 / CRJU 382 Legal Political Thought-Classical	3 credit hours
PLSC 383 / CRJU 383 Legal Political Thought-Modern	3 credit hours
PLSC 409 / CRJU 409 Statesmen, Soldiers & Leadership	3 credit hours
PLSC 470 / CRJU 470 Political Violence	3 credit hours

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Human Performance

The Human Performance major is designed for individuals who do not wish to enter the teaching profession but do wish to seek employment in a sport-related profession.

Requirements for Human Performance B.S. Major | 37-39 Required Semester Hours

Human Performance Core:

Class Name	Credit Hours
HMPF 435 Social Psychology of Sport & Human Performance	3 credit hours
HMPF 441 Exercise Assessment & Prescription (\$25 consumable items fee required)	3 credit hours
PHED 241 History/Philosophy of Physical Education	3 credit hours
PHED 275 Principles: Elementary Movement Form	3 credit hours
PHED 340 Motor Development	3 credit hours
PHED 351 Tests and Measurement in Health & Physical Education	3 credit hours
PHED 361 Organization & Administration: Physical Education	3 credit hours
PHED 410 Exercise Physiology (\$25 consumable items fee required)	3 credit hours
PHED 421 Kinesiology (\$25 consumable items fee required)	3 credit hours
RECM 350 Recreation Administration & Leadership	3 credit hours
WELL 340 Anatomy & Physiology	3 credit hours

4-6 hours of Human Performance Service courses (choose 4, 1-hour courses) from the following:

PHED 111 Beginning Swimming	1 credit hour
PHED 112 Intermediate Swimming	1 credit hour
PHED 114 Water Aerobics	1 credit hour
PHED 116 Yoga	1 credit hour
PHED 121 Team Sports	1 credit hour
PHED 122 Volleyball	1 credit hour
PHED 132 Golf	1 credit hour
PHED 133 Tennis and Badminton	1 credit hour
PHED 134 Personal Fitness & Aerobic Activities	1 credit hour
PHED 135 Canoe and Kayaking	1 credit hour
PHED 136 Weight Training	1 credit hour
RECM 190 Special Topics	1 credit hour
PHED 192 Lifeguard Training	3 credit hours

Requirements for Human Performance Minor | 21 Hours

Twenty-one (21) semester hours, which must include 15 hours of required courses, plus 6 hours of elective courses (two 3-hour courses). Note: only one nutrition course may be used to fulfill the elective component of this minor. If both are taken, only the first one may count toward the minor.

Class Name	Credit Hours
Required courses, 15 hours:	
PHED 351 Tests and Measurement in Health & Physical Education	3 credit hours
PHED 410 Exercise Physiology (\$25 consumable items fee required)	3 credit hours
PHED 421 Kinesiology (\$25 consumable items fee required)	3 credit hours

HMPF 441	Exercise Assessment & Prescription (\$25 consumable items fee required)	3 credit hours
WELL 340	Anatomy & Physiology	3 credit hours
Elective courses, 6 hours:		
HMPF 435	Social Psychology of Sport & Human Performance	3 credit hours
PHED 275	Principles: Elementary Movement Form	3 credit hours
PHED 340	Motor Development	3 credit hours
PHED 361	Organization & Administration: Physical Education	3 credit hours
PHED 420	Physical Education: Exceptional Child	3 credit hours
WELL 361*	Principles of Nutrition	3 credit hours
Or		
WELL 461*	Nutrition for Special Needs	3 credit hours
*Only one nutrition course may be used to fill elective block		

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Latin American and Iberian Studies

The objective of this minor is for students to obtain a clear understanding of the Latin American/Spanish language, world, culture, and people. It consists of the following 21 hours, 15 required SPAN courses and electives.

Requirements for Minor in Latin American & Iberian Studies | 21 Credit Hours

Class Name		Credit Hours
Required Courses:		
SPAN 111/113	Elementary Spanish I OR Spanish for Prof. Practice	3 credit hours
SPAN 112	Elementary Spanish II	3 credit hours
SPAN 211	Intermediate Spanish I	3 credit hours
SPAN 212	Intermediate Spanish II	3 credit hours
SPAN 311	Spanish Grammar/Conversation/ Composition	3 credit hours
Electives in Latin American & Iberian Studies (any 2 of the following):		
HIST 221	History and Culture of Spain and Portugal	3 credit hours
HIST 223	History of Latin America	3 credit hours
HIST 474	Topics in Latin American History	3 credit hours
SPAN 342	Topics in Spanish Language Studies	3 credit hours

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Law Enforcement

Requirements for Law Enforcement B.S. Major (Online Only) | 30 Hours

Class Name		Credit Hours
Core courses:		
LAWS 101	Introduction to Law Enforcement	3 credit hours
LAWS 220	Substantive Law for Enforcement Professionals	3 credit hours
LAWS 230	Constitutional Procedure for Enforcement Professionals	3 credit hours
LAWS 240	Homeland Security	3 credit hours
LAWS 300	The Criminal Courts	3 credit hours
LAWS 303	Criminal Investigation for Enforcement Professionals	3 credit hours
LAWS 400	Criminal Justice Ethics	3 credit hours

General Electives, 9 hours with at least 6 hours at level 300+, to be selected from the following in consultation with Academic Advisor:

LAWS 305	Juvenile Justice	3 credit hours
LAWS 310	Corrections	3 credit hours
LAWS 320	Probation & Parole	3 credit hours
LAWS 325	Interviewing & Interrogation	3 credit hours
LAWS 405	Victimology	3 credit hours
LAWS 410	Criminology	3 credit hours
LAWS 481	Special Topics: Law Enforcement	3 credit hours

The Law Enforcement Minor

The Law Enforcement minor is a pre-professional program for students pursuing a career path in law enforcement. It may be used to augment the Criminal Justice Major or may be taken independently in conjunction with other major programs.

Requirements for Law Enforcement Studies Minor | 24 Credit Hours

Class Name		Credit Hours
LAWS 101	Introduction to Law Enforcement	3 credit hours
9 hours of Police Science courses, choose 3:		
LAWS 200	Community Policing	3 credit hours
LAWS 205	Patrol Operations	3 credit hours
LAWS 210	Traffic Enforcement	3 credit hours
CRJU 302 / LAWS 302	Methods & Problems of Investigation	3 credit hours
LAWS 307	Criminal Justice Administration	3 credit hours
LAWS 206	Topics in Law Enforcement	3 credit hours
6 hours of Public Law courses, choose 2:		
CRJU 205	Criminal Law	3 credit hours
Or		
CRJU 201	Criminal Procedure	3 credit hours
PLSC 209 / CRJU	American Courts & Judicial Process	3 credit hours
Or		
LAWS 301	The Law of Evidence	3 credit hours
PLSC 486 / CRJU	Constitutional Law I: Civil Liberties	3 credit hours

Or

PLSC 483 / CRJU	Constitutional Law II: National Powers	3 credit hours
6 hours of Interdisciplinary Foundations courses, choose 2:		
SOCI	Corrections: Institutional and Community Based	3 credit hours
Or		
SOCI	Deviance & Criminology	3 credit hours
PLSC 470 / CRJU	Political Violence	3 credit hours
CRJU 306	Topics in Criminal Justice	3 credit hours
Note: Satisfaction of the requirements for the minor in Law Enforcement Studies include the completion of a minimum of eighteen (18) unduplicated semester hours (hours not being counted towards the satisfaction of requirements for any other degree program)		

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Management

Management Minor | 21 Credit Hours (For Non-Business-Related Majors)

Class Name		Credit Hours
MGMT 352	Principles of Management	3 credit hours
MGMT 372	Human Resource Management	3 credit hours
MGMT 374	Operations Management	3 credit hours
MGMT 400	Organizational Behavior & Team Dynamics	3 credit hours
Business Electives (300+ level or above)		

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Marketing

Required Courses for all Accounting, Business Management, and Marketing Majors | 18 Credit Hours

Class Name	Credit Hours
ACTG 270 Accounting for Managers 3 credit hours	3 Credit Hours
Or	
ACTG 271 Managerial Accounting 3 credit hours	3 Credit Hours
BUAD 151 Business Essentials 3 credit hours	3 Credit Hours
BUAD 302 Business Communications 3 credit hours	3 Credit Hours
BUAD 310 Legal Environment of Business 3 credit hours	3 Credit Hours
CIS 241 Intermediate Technology Applications 3 credit hours	3 Credit Hours
ECON 204 Principles of Microeconomics	3 Credit Hours

Marketing Major | 30 Additional Credit Hours

Class Name	Credit Hours
BUAD 303 Business Statistics	3 credit hours
MGMT 352 Principles of Management	3 credit hours
MKTG 321 Principles of Marketing	3 credit hours
MKTG 322 Consumer Behavior	3 credit hours
MKTG 378 Sales Management	3 credit hours
MKTG 400 Marketing Management	3 credit hours
MKTG 450 Brand Management	3 credit hours

Select 9 hours from the following:

MKTG 370 Advertising	3 credit hours
MKTG 372 Public Relations	3 credit hours
MKTG 421 Business Logistics	3 credit hours
MKTG 481 Special Topics in Marketing	3 credit hours
MKTG 485 Marketing Internship	3 credit hours
BUAD 445 Global Business	3 credit hours
COMM 443 Social Media III	3 credit hours

The Marketing Minor

The Marketing Minor is offered both as a traditional on-campus program and as a fully online program.

Marketing Minor | 18 Credit Hours

Class Name	Credit Hours
MKTG 321 Principles of Marketing	3 credit hours
MKTG 322 Consumer Behavior	3 credit hours
MKTG 450 Brand Management	3 credit hours
9 hours of electives with the MKTG prefix, at 300+ level or above	9 credit hours

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Mathematics

Requirements for Mathematics Major | 43 semester hours in Mathematics

Class Name	Credit Hours
*MATH 133 Trigonometry and Analytic Geometry	3 credit hours
MATH 241 Differential Calculus & Analytic Geometry	4 credit hours
MATH 242 Integral Calculus & Analytic Geometry	4 credit hours
MATH 243 Multivariate Calculus & Analytic Geometry	4 credit hours
**MATH 321 Discrete Mathematics	3 credit hours
MATH 331 Introduction to Linear Algebra I	3 credit hours
MATH 341 Differential Equations I	3 credit hours
MATH 403 Introduction to Analysis	3 credit hours
MATH 433 Introduction to Abstract Algebra	3 credit hours
PHYS 211 General Physics	4 credit hours

And

PHYS 213 General Physics Lab 1	1 credit hour
PHYS 212 General Physics II	4 credit hours

And

PHYS 214 General Physics Lab II	1 credit hour
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Choose 1 of the following:

MATH 301 Principles of Geometry	3 credit hours
CIS 250 Introductory Programming	3 credit hours
MATH 372 Probability & Math Statistics	3 credit hours

Choose 1 of the following:

MATH 332 Linear Algebra	3 credit hours
MATH 342 Differential Equations II	3 credit hours
MATH 402 Functions of a Complex Variable	3 credit hours

*MATH 133 is not part of the Math Core, but it should be taken prior to MATH 241 by anyone who has not completed a subject-specific trigonometry course in high school or college.

**MATH 321 is a prerequisite to all remaining MATH 300 and 400 level courses

Requirements for Mathematics Minor | 24 semester hours in Mathematics including:

Class Name	Credit Hours
MATH 133 Trigonometry and Analytic Geometry	3 credit hours
MATH 241 Differential Calculus & Analytic Geometry	4 credit hours
MATH 242 Integral Calculus & Analytic Geometry	4 credit hours
MATH 243 Multivariate Calculus & Analytic Geometry	4 credit hours
MATH 321 *Discrete Mathematics	3 credit hours
MATH 331 Introduction to Linear Algebra	3 credit hours
MATH Elective (must be 300 or 400 level course)	3 credit hours

Or

CIS 250 Introductory Programming	3 credit hours
*MATH 321 is a prerequisite to remaining MATH 300/400 level courses	

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Media Communication

A major in Media Communication allows students to choose either the Bachelor of Science or Bachelor of Arts (recommended for further degrees in Media Communication and other study) with a major in Media Communication. A Bachelor of Science in Media Communication requires the following 51 semester hours. Students complete the B.A. language requirement, fulfilled by completing the equivalent of four semesters of a single foreign language (not native to the student) or two semesters of each of two foreign languages. Students preparing to teach in high school must use the English major – not this major.

Media Communication Major (B.A. or B.S.) | 51 Semester Hours

Class Name	Credit Hours
COMM 221 Introduction to Media Studies	3 credit hours
COMM 232 Layout & Design I	3 credit hours
COMM 234 Digital Career Management	3 credit hours
COMM 235 Social Media I	3 credit hours
COMM 261 Writing & Speaking for the Media	3 credit hours
COMM 322 Persuasion	3 credit hours
COMM 331 Video Production I	3 credit hours
COMM 332 Layout & Design II	3 credit hours
COMM 340 Social Media II	3 credit hours
COMM 342 Writing & Speaking for the Media II	3 credit hours
COMM 363 Web I, User Experience & Design	3 credit hours
COMM 364 Web II, Development	3 credit hours
COMM 453 Strategic Storytelling	3 credit hours
COMM 462 Media Law	3 credit hours
COMM 472 Mass Communication Capstone	3 credit hours

Choose 1 of the following (3 hours):

COMM 211 Public Speaking	3 credit hours
COMM 422 Video Production II	3 credit hours

Choose 1 of the following (3 hours):

COMM 336 Layout & Design III	3 credit hours
COMM 443 Social Media III	3 credit hours
COMM 464 Web III: Projects	3 credit hours

Media Communication Minor | 18 Total Hours

Class Name	Credit Hours
COMM 221 Introduction to Media Studies	3 credit hours
COMM 234 Digital Career Management	3 credit hours
12 hours of electives with the COMM prefix; 9 of the 12 hours must be at 300 level or above	12 credit hours

Social Media Management Certificate

The Social Media Management Certificate includes three 8-week courses for both degree and non-degree seekers. It is delivered entirely online and incorporates weekly writing assignments that build into a final project. By the time the certificate is complete, students will have an engagement plan, content plan, and a marketing plan created for use.

The Social Media Management Certificate consists of the following 9 hours:

Class Name		Credit Hours
COMM 235	Introduction to Social Media	3 credit hours
COMM 340	Social Media Publishing Strategies	3 credit hours
COMM 443	Social Media III	3 credit hours

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Music

The Bachelor of Arts in Music (36-hour major) will provide students an in-depth program of study in music, which will include music at the historical, theoretical, performance, and applied level. Students may choose as their primary instrument: piano, voice, guitar, or an instrument from the brass, string, woodwind, or percussion families.

Music Major (B.A.) | 36 Hours

Class Name	Credit Hours
Applied Music – 9 credit hours:	
MUSC 101 Applied Music	1 credit hour
MUSC 102 Applied Music	1 credit hour
MUSC 201 Applied Music	1 credit hour
MUSC 202 Applied Music	1 credit hour
MUSC 301 Applied Music	1 credit hour
MUSC 302 Applied Music	1 credit hour
MUSC 417 Recital (Capstone)	3 credit hours
Ensemble Performance – 6 credit hours – 6 hours from the following (all may be repeated)	
MUSC 152 Union College Singers	1 credit hour
MUSC 167 Bulldog Band	1 credit hour
MUSC 168 Concert Band	1 credit hour
Music History – 9 credit hours:	
MUSC 353 Blues, Jazz, & Rock N Roll	3 credit hours
MUSC 421 Music Before 1750	3 credit hours
MUSC 422 Music After 1750	3 credit hours
Music Theory and Musicianship – 9 credit hours:	
MUSC 265 Theory/Musicianship I	3 credit hours
MUSC 266 Theory/Musicianship II	3 credit hours
MUSC 345 Theory/Musicianship III	3 credit hours
Elective – 3 credit hours:	
MUSC 373 Elementary School Music	3 credit hours
Or	
MUSC 331 Choral Literature/Conducting	3 credit hours

Music Minor | 21 Total Hours

Class Name	Credit Hours
MUSC 101 Applied Music	1 credit hour
MUSC 102 Applied Music	1 credit hour
MUSC 121 Introduction to Music	3 credit hours
MUSC 201 Applied Music	1 credit hour
MUSC 202 Applied Music	1 credit hour
MUSC 265 Theory/Musicianship I	3 credit hours
MUSC 266 Theory/Musicianship II	3 credit hours

MUSC 422	Music after 1750	3 credit hours
MUSC ____	4 semesters* of ensembles required	4 credit hours
MUSC ____	1 semester hour of music elective	1 credit hour

*4 semesters = 2 years

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Nursing

Nursing Program Mission Statement

The Union College School of Nursing provides an environment of scholarly questioning, inquiry, and service. The liberal studies, sciences, and nursing core prepare graduates to address the holistic health care needs of diverse populations in the region and beyond, and to pursue graduate education.

The Edna Jenkins Mann School of Nursing

The Edna Jenkins Mann School of Nursing includes two tracks, both leading to the baccalaureate degree in nursing. The pre-licensure track is designed for an individual who wants to pursue a degree in nursing but who is not currently a registered nurse. The RN to BSN track is for the registered nurse who is currently licensed and desires a broader and deeper education in nursing and the liberal arts.

The baccalaureate degree program in nursing at Union College is accredited by the [Commission on Collegiate Nursing Education \(CCNE\)](#), 655 K Street NW, Suite 750, Washington, DC, 20001, 202- 887-6791. The baccalaureate degree program in nursing is also approved by the [Kentucky Board of Nursing](#).

Nursing Program Goals

The College Nursing Program seeks to:

1. Attract, develop, and retain excellent students with a passion for the art and science of nursing and lifelong learning.
2. Create an educational environment that fosters development of leaders through stimulating questioning, debate, and collaboration.
3. Graduate professionals who are caring and are prepared to use evidence, knowledge, and clinical reasoning in holistically addressing healthcare needs.
4. Prepare graduates for lifelong learning and leadership positions in nursing.

Student Program Outcomes

The graduate of the nursing program of Union College will:

- Use the knowledge, theory, evidence, and clinical reasoning to provide nursing care for patients across the lifespan.
- Effectively express ideas in written and oral communication.
- Participate in the coordination of care through an inter-professional teamwork approach to care for individuals and groups of patients.
- Manage the provision of nursing care through effective leadership and organizational skills.
- Practice within the context of professional, ethical, regulatory, and legal codes.
- Participate in political and regulatory processes that affect the health and well-being of society.
- Evaluate and use current and relevant technology and healthcare informatics.
- Create and foster a culture of safety and quality.
- Apply teaching/learning strategies and the nursing process to health care education.
- Demonstrate behaviors that support, enhance, and promote patient health, comfort, and hope.
- Articulate the value of lifelong learning within the nursing profession and develop a plan for continued education and educational mobility.

Pre-Licensure Nursing Track

Admissions Procedure and Criteria

Students who wish to pursue the pre-licensure nursing major are admitted to Union College as pre-nursing majors. During the first two (2) years of college, pre-nursing students complete Union College Core requirements and prerequisites for the program. Admission to the College is not a guarantee of admission to the upper division nursing major. Pre-nursing students who meet minimum criteria for admission to the nursing major may apply for admission to the program. Please note that admission to the nursing major is a competitive process and the most qualified students will be selected for admission to the major using the criteria described below. Completed applications to the major will be reviewed by the Nursing Faculty Committee on Admissions and the most qualified students will be selected by the following weighted score of criteria:

- **Cumulative GPA | 25% or 25 Points**

The entire post-secondary cumulative GPA (as reported to the Union College Registrar by the colleges the applicant has attended). A cumulative GPA of 2.75 is required to apply to the major. The GPA is calculated based on the entire undergraduate record.

- **ACT score | 25% or 25 Points | MUST SUBMIT COPY OF RESULTS**

Only the ACT will be considered; SAT or GRE scores will NOT be substituted. A minimum of 18 is required to apply.

- **Kaplan Nursing School Admissions Test | 50% or 50 Points**

The Kaplan Nursing School Admissions Test is a required pre-admission assessment tool to determine if students have the academic skills (i.e., math, reading, science, writing, and critical thinking) necessary to perform effectively within the school of nursing. The test must be taken, and a score of at least 50 must be on file at the Union College School of Nursing. Union College Kaplan testing dates will be announced; scores will be reported directly from the Kaplan Admissions Exam.

Applications for the upper division major will be available each fall. The deadline for submission of completed applications is posted each year. Students who are not selected one year must reapply to be considered the following year.

PROVISIONAL/FULL ADMISSION | PROGRESSION THROUGH THE NURSING MAJOR

Students apply to the nursing major in the fall of the year prior to beginning the program the following fall and are notified of acceptance, provisional, denial of acceptance, or waitlist status prior to the upcoming spring semester. Students will be notified by official Union College email or U.S. mail (for transfer students not currently enrolled at Union College) of the admission decision by January.

Provisional Admission Status

All students are admitted on a provisional basis, once admitted to the Nursing major, all students must maintain the following standards to progress from one semester to the next:

- All pre-requisites should be completed prior to the beginning of the first nursing class in the fall and a cumulative GPA of 2.75 or above is maintained. Admission may be withdrawn for any student who fails to meet this requirement.
- Students are admitted pending a criminal background check, which will be conducted in the summer semester, prior to admission. Admission will be withdrawn for students who, in the judgment of the Dean of the School of Nursing and the Admissions Committee, have been convicted of or have pending a charge that would not be acceptable by the Kentucky Board of Nursing (KBN).

- Students are admitted pending a negative drug screen.
- All required documentation is completed and submitted by the July of the Fall admission date.

Full Admission to the Nursing Major | Fall

Students who successfully complete the Sophomore Spring sessions to include NURS 301 and meet all other prerequisite and provisional admission course requirements in addition to the following:

- The student must maintain a minimum GPA of 2.75 following admission into the nursing program; if the students GPA falls below a 2.75 following admission into the program; the student will be excluded from the program without the option for readmission.
- Follow all attendance policies as required for courses and clinical work.
- Participate in and document activities that will promote academic success in the nursing major.
- Failure to meet these requirements will result in withdrawal of admission. If admission is withdrawn, students who wish to be considered for future admission to the nursing major must re-apply. Applications are not carried forward from one class to the next.

Pre-Licensure Required Nursing Courses | 55 Hours

Class Name	Credit Hours
NURS 301 Foundations Professional Nursing Practice	4 credit hours
NURS 302 Foundations Professional Nursing Practice Clinical	2 credit hours
NURS 305 Pharmacology I	2 credit hours
NURS 314 Health Assessment	3 credit hours
NURS 315 Foundations & Pharmacology Lab	1 credit hour
NURS 321 Concepts Adult & Geriatric Nursing	3 credit hours
NURS 325 Adult & Geriatric Health Clinical	3 credit hours
NURS 331 Mother-Baby & Pediatric Nursing	3 credit hours
NURS 335 Mother-Baby & Pediatric Nursing Clinical	2 credit hours
NURS 336 Transcultural Nursing	3 credit hours
NURS 360 Evidence Based Practice & Research	3 credit hours
NURS 401 Introduction to Community Health	1 credit hour
NURS 403 Community & Family Clinical	1 credit hour
NURS 405 Pharmacology II	3 credit hours
NURS 411 Mental Health Nursing	2 credit hours
NURS 415 Mental Health Nursing Clinical	1 credit hour
NURS 423 Community Health Nursing	2 credit hours
NURS 425 Community Health Nursing Clinical	1 credit hour
NURS 430 Management/Leadership	3 credit hours
NURS 444 Emerging & Persistent Issues in Nursing Healthcare	3 credit hours
NURS 451 Concepts Adult & Geriatric Health II	3 credit hours
NURS 455 Adult & Geriatric Health II Clinical	3 credit hours
NURS 475 Senior Practicum	3 credit hours

RN to BSN Online Track

The RN to BSN Nursing Major at Union College offers registered nurses with the Associate in Applied Science degree in Nursing or a hospital diploma in nursing, the opportunity to earn the Bachelor of Science in Nursing (BSN). The curriculum is arranged for the nurse who works full time; most students will be able to complete requirements in two and one-half academic years. With the increased focus in nursing on graduate study at both the master's and doctoral degree levels, earning a bachelor's degree in Nursing is essential.

Criteria for Admission and Progression

Students are eligible for admission who have earned an associate degree or diploma in nursing from a regionally accredited institution, and who are licensed to practice nursing in Kentucky or a compact state. Students must have achieved a grade of C or higher in all science courses taken prior to entrance. Nursing students may be admitted to Nursing with a GPA of 2.00.

Requirements for the RN to BSN Program (Online) | 33 Hours

Class Name	Credit Hours
NURS 300 The Professional Role	3 credit hours
NURS 314 Health Assessment	3 credit hours
NURS 332 Nursing Theory	1 credit hour
NURS 334 Healthcare Policy & Finance	3 credit hours
NURS 336 Transcultural Nursing	3 credit hours
NURS 338 Healthcare Informatics	3 credit hours
NURS 340 Pathophysiology	3 credit hours
NURS 360 Evidence Based Practice & Research	3 credit hours
NURS 426 Community Health Nursing & Clinical	4 credit hours
NURS 435 Management & Leadership in Nursing & Clinical	4 credit hours
NURS 444 Emerging & Persistent Issues in Nursing Healthcare	3 credit hours

Medicaid Nurse Aide Certificate

To earn the Medicaid Nurse Aid Certificate, students take a single three-credit course, NURS 100: Nursing Assistant Skills: Medicaid Nurse Aide. The course is designed to provide knowledge and skills for nurse aides to assume the role and responsibility required in long-term care. Topics addressed in the course include communication, infection control, safety, resident rights, and basic nursing skills.

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Philosophy

Requirements for Minor in Philosophy | 21 Credit Hours (Required Courses)

Class Name	Credit Hours
PHIL 215 Philosophy in the Modern World	3 credit hours
PHIL 261 Topics in Philosophy of Religion	3 credit hours
And	
Additional hours in Philosophy	15 credit hours

Language Recommendation

All History majors and minors are strongly encouraged to undertake the study of a foreign language in conjunction with their History program. For those intending to go to graduate school, it is recommended that a course of study leading to a Bachelor of Arts degree be completed.

Secondary Teaching

Students preparing to teach high school History or Social Studies must complete the Area in Social Studies and the requirements for secondary teacher certification, both outlined in the Educational Studies section.

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Physical Science

Requirements for Physical Science Minor | At Least 29-31 Credit Hours

At least 23 semester hours in Physics and/or Chemistry, including:

Class Name		Credit Hours
Two (2) sequential semesters of freshman Physics and lab from either algebra-based track or the calculus-based track (PHYS 111/PHYS 112/PHYS 113/PHYS 114 or PHYS 211/PHYS 212/PHYS 213/PHYS 214):		
PHYS 111	College Physics I	3 credit hours
PHYS 112	College Physics II	3 credit hours
PHYS 113	College Physics Lab I	1 credit hour
PHYS 114	College Physics Lab II	1 credit hour
Or		
PHYS 211	General Physics I	4 credit hours
PHYS 212	General Physics II	4 credit hours
PHYS 213	General Physics Lab I	1 credit hour
PHYS 214	General Physics Lab II	1 credit hour
PHYS 304	Modern Physics	3 credit hours
CHEM 121	General Chemistry I	4 credit hours
CHEM 122	General Chemistry II	4 credit hours
CHEM 314	Physical Chemistry Lab	1 credit hour
And one of the following three courses:		
CHEM 313	Descriptive Physical Chemistry	3 credit hours
CHEM 332	Physical Chemistry	3 credit hours
PHYS 331	Heat and Thermodynamics	3 credit hours
Plus 6 hours of electives to be chosen from Chemistry, Physics, or Math (MATH 321, Discrete Mathematics, or higher)		

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Physics

Requirements for Physics Minor | 36 Credit Hours

36-39 semester hours in Physics including: 17 to 20 hours in Physics; 4 hours in Chemistry; 12 hours in Calculus; and 3 hours of Electives. The following courses are required:

Class Name		Credit Hours
PHYS 211	General Physics I	4 credit hours
PHYS 212	General Physics II	4 credit hours
PHYS 213	General Physics Lab I	1 credit hour
PHYS 214	General Physics Lab II	1 credit hour
PHYS 304	Modern Physics	3 credit hours
PHYS 305	Problem Solving in Modern Physics	1 credit hour
PHYS 331	Heat and Thermodynamics	3 credit hours
CHEM 314	Physical Chemistry Lab	1 credit hour
CHEM 332	Physical Chemistry	3 credit hours
MATH 241	Differential Calculus & Analytic Geometry	4 credit hours
MATH 242	Intermediate Calculus & Analytic Geometry	4 credit hours
MATH 243	Intermediate Calculus & Analytic Geometry	4 credit hours

And 3 hours of electives to be chosen from:

PHYS 402	The Physics of Solids	3 credit hours
CIS 250 (or higher)	Introductory Programming	3 credit hours
Or		
MATH 332 (or higher)	Linear Algebra	3 credit hours

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Political Science

Political Science minor students take the basic course in American government, as well as courses selected from the areas of American Institutions, Comparative Politics & International Relations, Political Theory, and Public Law. The development of reading, writing, and analytical skills are emphasized in this program in the use and comprehension of language, broad knowledge and appreciation of legal, political and social institutions, familiarity with both western and non-western traditions and value systems, and a capacity for both linear and non-linear problem solving. The Political Science minor is an excellent complement to any major and is of interest to students contemplating careers in law, government, criminal justice, or other public service.

Requirements for Political Science Minor | 24 Credit Hours

The minor in Political Science requires the completion of 18 unduplicated credit hours (hours not also applying to another degree).

Class Name		Credit Hours
PLSC 101	American National Government	3 credit hours
4 Sub-Fields include 21 required hours		
Sub-Field 1: 6 required hours of American Institutions courses		
PLSC 405 / CRJU	The American Founding	3 credit hours
PLSC 408	American Presidency	3 credit hours
Sub-Field 2: 3 required hours of Comparative Politics choose 1 of the following:		
PLSC 470 / CRJU	Political Violence	3 credit hours
PLSC 409 / CRJU	Statesmen, Soldiers & Leadership	3 credit hours
Sub-Field 3: 6 required hours of Political Theory		
PLSC 382 / CRJU	Legal Political Thought-Classical	3 credit hours
PLSC 383 / CRJU	Legal Political Thought-Modern	3 credit hours
Sub-Field 4: 6 required hours of Public Law		
PLSC 486	Constitutional Law I: Civil Liberties	3 credit hours
PLSC 483	Constitutional Law II: National Powers	3 credit hours

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Pre-Engineering (Associate Degree)

Union offers an Associate of Science (AS) degree in Pre-Engineering that facilitates transfer from Union to a four-year college with an engineering program. Students complete two years of coursework at Union, including courses in the Liberal Education Core and the math and science courses that are typically taken in the first two years of an engineering program. Below is a list of requirements and a recommended schedule for completing them.

Associates of Science – Pre-Engineering

First Year – UNION COLLEGE			
Fall Semester		Spring Semester	
ENGL 111 – First Year Composition I	3	ENGL 112 – First Year Composition II	3
CHEM 121 – General Chemistry I	4	CHEM 122 – General Chemistry II	4
MATH 133 – Trigonometry & Analytical Geometry	3	MATH 241 – Differential Calculus & Analytical Geometry	4
Fine Arts Core Requirement	3	Life Skills Core Requirement	3
Social/Behavioral Science Core Requirement	3	History/Religion/Philosophy Core Requirement: History 110, 113, or 213	3
UCE 100 – First Year Seminar	1	UCE 181 – First Year Seminar	1
Total Hours	17	Total Hours	18

Second Year – UNION COLLEGE			
Fall Semester		Spring Semester	
MATH 242 – Intermediate Calculus & Analytical Geometry	4	MATH 243 – Multivariate Calculus & Analytical Geometry	4
PHYS 211 & 213 – General Physics I & Lab	5	PHYS 212 & 214 – General Physics II & lab	5
MATH 331 – Intro Linear Algebra or MATH 341 – Differential Equations I	3	Literature Core Requirement	3
CHEM 212 – Analytical Chemistry OR COMP 250 – Introduction to Programming	4 3	GNSC 281 – Special Topics (Pre- Internship or Career Exploration)	2
		History/Religion/Philosophy Requirement: PHIL 260 - Logic	3
Total Hours	15- 16	Total Hours	17

**It is highly recommended if a student enrolls with several Core requirements fulfilled through Dual Credit, they complete 3 additional hours of coursework in Social/Behavioral Science.

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Pre-Law

Law schools seek applicants from a wide variety of academic backgrounds. Pre-Law develops skills such as reading critically, writing clearly, thinking analytically, and speaking persuasively. These serve as a foundation for other matters as well: excellence in the use and comprehension of language; broad knowledge and appreciation of legal, political, and social institutions; familiarity with both western and non-western traditions and value systems; and a capacity for problem solving. The Pre-Law minor is an excellent complement to any major, and especially for students considering careers in law, government, criminal justice, or other public service. The faculty Pre-Law advisor will assist students who are preparing for post-graduate study in Law. Students are encouraged to meet with the Pre-Law advisor at any time, but preferably before the end of their sophomore year.

Requirements for Pre-Law Minor | 24 Hours

Note: The minor in Pre-Law will require the completion of a minimum of 18 unduplicated credit hours (hours not applying to another degree).

Class Name		Credit Hours
PLSC 101	American National Government	3 credit hours
CRJU 209	American Courts & Judicial Process	3 credit hours
PLSC 382 / CRJU 382	Legal Political Thought-Classical	3 credit hours
PLSC 383 / CRJU 383	Legal Political Thought-Modern	3 credit hours
CRJU 201	Criminal Procedure	3 credit hours
CRJU 205	Criminal Law	3 credit hours
PLSC 486 / CRJU 486	Constitutional Law I: Civil Liberties	3 credit hours
PLSC 483 / CRJU 483	Constitutional Law II: National Powers	3 credit hours

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Professional Writing

Writing is an academic skill of almost incalculable importance, the chief means by which students deeply participate in the epoch-and world-spanning conversation of minds. Across the academic disciplines, student writers not only write to communicate how well they know their subjects, but also through that exploratory process to expose new ideas and burnish old ones. The ability to write well in a number of different rhetorical situations has been and remains a top skill that potential employers look for in recent college graduates (National Association of Colleges and Employers), a professional leg-up leading to higher employment rates and faster promotion. Writers tell the stories of their communities—not only to their contemporaries, but also to the future.

The Professional Writing Minor comprises at least 21 total hours from the courses listed below. At least 15 of those hours must be housed in English and have an ENGL prefix.

Professional Writing Minor Requirements | At Least 21 Total Credit Hours

Class Name		Credit Hours
ENGL 315	Creative Writing (may be repeated twice for credit)	3 credit hours
ENGL 327	Theories of Composition & Rhetoric	3 credit hours
ENGL 334	Small Group Writing Instruction	1 credit hour
ENGL 340	Writing in the Disciplines	3 credit hours
ENGL 407	Writing for the Community	3 credit hours
ENGL 410	Writing and the Environment	3 credit hours
ENGL 427	Directed Writing	3 credit hours
ENGL 485	Internship: Editing and Publishing	1 credit hour
BUAD 302	Business Communications	3 credit hours
COMM 261	Writing & Speaking for the Media	3 credit hours
COMM 322	Persuasion	3 credit hours
COMM 342	Writing & Speaking for the Media II	3 credit hours

Assessment Procedures

Each senior in the program compiles a portfolio of work in courses both in the Liberal Education Core and in the major and writes a short analysis of that work. This analysis includes a statement explaining why the student chose these pieces and what they show about the student's progress through the program. The portfolio is due two (2) weeks before departmental Assessment Day, when each graduating senior will be interviewed by a departmental team as part of the process of assessing whether departmental goals are being met.

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Psychology

The psychology program at Union College helps students gain knowledge, skills, and abilities in the applied and basic science of psychology. Psychology students are prepared to be ethically responsible and have an enhanced understanding of human behavior and thought.

Psychology offers both graduate and undergraduate programs. Offered at the undergraduate level are:

1. Major in Psychology (Bachelor of Science, 45 credit hours)
2. Major in Substance Abuse Counseling (Bachelor of Science, 39 credit hours)
3. Minor in Psychology (21 credit hours)
4. Chemical Dependency Counselor Concentration program (21 credit hours)

The programs offer students broad exposure to the discipline of psychology. Students take a range of courses in clinical and experimental psychology and are encouraged to pursue an area of specialization. The majors, minor, and the concentration prepare students for a variety of careers, such as positions in the helping professions, or enables students to increase their knowledge of human behavior. Students who wish to specialize in various areas are encouraged to speak with their advisor as early as possible for guidance in selecting elective courses. For exceptionally qualified students majoring in psychology, an advanced admission to the master's program (the Psychology Scholars Program) is also available (see below). It allows for taking graduate courses at the lower cost of undergraduate classes, and both the bachelor's and master's degrees could be obtained in as little as five (5) years rather than the traditional six (6) years.

Undergraduates Taking Graduate Courses

With permission from the School Dean, exceptional students, who have GPA 3.2 or higher, may enroll in up to four (4) graduate psychology courses between their junior and senior years (foundation courses only, and no more than two (2) courses per semester). These courses may satisfy elective requirements in the undergraduate psychology programs.

Psychology Major

Requirements for Psychology Major, Bachelor of Science | 45 Hours (33 Required Hours and 12 Hours Electives)

Class Name	Credit Hours
PSYH 200 Introduction to Psychology	3 credit hours
PSYH 290 Clinical Psychology	3 credit hours
PSYH 301 Statistics for Psychology	3 credit hours
PSYH 302 Research Design	3 credit hours
PSYH 315 Physiological Psychology	3 credit hours
PSYH 330 Social Psychology	3 credit hours
PSYH 332 Lifespan Development	3 credit hours
PSYH 352 Abnormal Psychology	3 credit hours
PSYH 461 History and Systems of Psychology	3 credit hours
PSYH 497* Senior Seminar I	3 credit hours
PSYH 498 Senior Seminar II	3 credit hours

It is recommended students take PSYH 301, Statistics for Psychology (only offered fall term) and PSYH 302, Research Design (only offered spring semester) during their junior year.

*Prerequisites for PSYH 497: PSYH 200, PSYH 301, and PSYH 302. It is essential that students take PSYH 497 (Senior Seminar I) fall term and PSYH 498 (Senior Seminar II) spring term during their senior year.

Exit requirements for the psychology major include an acceptable score on the ETS® Major Field Test for Psychology, and a Senior Exit Interview to be scheduled in the last semester of course work. These assessment activities will be coordinated by the psychology faculty the semester the student plans to graduate (spring semester for May and August graduation; fall semester for December graduation). Information is provided to graduating seniors by the capstone course.

Psychology Major Electives | 12 Hours

Elective hours may be selected from any of the tracks below (General Psychology, Experimental, and/or Chemical Dependency), according to the student's career plans or interests.

General Psychology Track Electives

Class Name	Credit Hours
PSYH 202 Forensic Psychology	3 credit hours
PSYH 275 Cross-Cultural Psychology	3 credit hours
PSYH 425 Crisis and Trauma	3 credit hours
PSYH 481 Special Topics in Psychology	3 credit hours

Experimental Track Electives

Class Name	Credit Hours
PSYH 350 Cognitive Psychology	3 credit hours
PSYH 360 Sensation and Perception	3 credit hours
PSYH 470 Learning Theories	3 credit hours
PSYH 475 Advanced Behavioral Neuroscience	3 credit hours

Chemical Dependency Track Electives

Class Name	Credit Hours
PSYH 405 Foundations of Chemical Dependency I	4 credit hours
PSYH 406 Foundations of Chemical Dependency II	4 credit hours
PSYH 407 Ethical Issues in Chemical Dependency Treatment	1 credit hour
PSYH 410 Psychology of Addictions	3 credit hours
PSYH 413 Recovery & Relapse	3 credit hours
PSYH 424 Biological Systems of Chemical Dependency	3 credit hours

Psychology Minor

Requirements for Psychology Minor | 21 Hours

Class Name	Credit Hours
PSYH 200 Introduction to Psychology	3 credit hours
Students will complete either PSYH 301 and PSYH 302 or BHSC 245 and BHSC 246	
PSYH 301 Statistics for Psychology taken fall term, junior year	3 credit hours
PSYH 302 Research Design taken spring term, junior year	3 credit hours
Or	
BHSC 245 Basic Statistics: Theory & Application	3 credit hours

BHSC 246	Methods of Behavioral Science Research	3 credit hours
Students will complete 12 credit hours of other Psychology Minor *Electives:		
PSYH XXX		3 credit hours
PSYH XXX		3 credit hours
PSYH XXX		3 credit hours
PSYH XXX		3 credit hours

Chemical Dependency Counselor Certificate

The Chemical Dependency Certificate Program is a fully online program that is designed to train students in the skills necessary for assisting chemically dependent persons to alleviate that dependency. The program includes courses designed to provide students with knowledge of the field through focusing on the development of counseling skills specific to the needs of chemically dependent individuals as identified by appropriate agencies.

Requirements for Admission to the Chemical Dependency Counselor Certificate

1. Signed curriculum contract on file in Psychology Department (available in the Psychology Department)
2. For GPA requirements, contact Psychology Department

Consideration will be given to previous work experience, academic background, scholarship, interpersonal skills, and commitment to the field of chemical dependency.

Completion of the Chemical Dependency Counselor Certificate

- Application for program certificate
- Payment of \$25.00 application fee
- Completion of 21 credit hours (minimum of 14 credit hours earned at Union College)
- For GPA requirements, contact Psychology Department

Chemical Dependency Counselor Certificate | 21 Hours, a minimum of 14 credit hours earned at Union College

Class Name	Credit Hours
PSYH 405 Foundations of Chemical Dependency I	4 credit hours
PSYH 406 Foundations of Chemical Dependency II	4 credit hours
PSYH 407 Ethical Issues in Chemical Dependency Treatment	1 credit hour
PSYH 410 Psychology of Addictions	3 credit hours
PSYH 413 Recovery & Relapse	3 credit hours
PSYH 424 Biological Systems of Chemical Dependency	3 credit hours
PSYH 275 Cross-Cultural Psychology (elective)	3 credit hours

Kentucky State Board Information / Requirements for Certification as a Chemical Dependency Counselor

The Kentucky State Board accepts either undergraduate or graduate hours for credit toward certification. The Union College Chemical Dependency Counselor Concentration program

satisfies the 270-contact hour requirement (270 classroom hours of board approved curriculum), including the ethics training requirement (6 hours of ethics training).

Completion of the Chemical Dependency Counselor Certificate does not automatically guarantee certification by the Kentucky Board of Alcohol and Drug Counselors but provides the requisite academic background to sit for the CADC (Certified Alcohol and Drug Counselor) examination. Kentucky state certification information can be found at: <http://adc.ky.gov>

It is the student's responsibility to check reciprocal agreements among different states.

Substance Abuse Counseling

The Substance Abuse Counseling major is a fully online program.

Requirements for Substance Abuse Counseling Major, Bachelor of Science | 39 Hours

24 Required Hours, 6 Hours Professional Electives, 9 Hours Supporting Electives

Substance Abuse Counseling Core, Required Courses | 24 Hours

Class Name	Credit Hours
PSYH 405 Foundations of Chemical Dependency I	4 credit hours
PSYH 406 Foundations of Chemical Dependency II	4 credit hours
PSYH 407 Ethical Issues in Chemical Dependency Treatment	1 credit hour
PSYH 410 Psychology of Addictions	3 credit hours
PSYH 413 Recovery & Relapse	3 credit hours
PSYH 424 Biological Systems of Chemical Dependency	3 credit hours
PSYH 275 Cross-Cultural Psychology	3 credit hours
PSYH 485 Substance Abuse Internship	3 credit hours

Substance Abuse Counseling Professional Electives | 6 Hours

Choose 6 hours from the following:

Class Name	Credit Hours
PSYH 200 Introduction to Psychology	3 credit hours
WELL 272 Drugs and Society	3 credit hours
SOCI 231 Juvenile Delinquency	3 credit hours
PSYH 352 Abnormal Psychology	3 credit hours
PSYH 202 Forensic Psychology	3 credit hours
CRJU 101 Introduction to Criminal Justice	3 credit hours

Substance Abuse Counseling Supporting Electives | 9 Hours

Choose 9 hours from the following:

Class Name	Credit Hours
SOCI 464 Deviance & Criminology	3 credit hours
PSYH 315 Physiological Psychology	3 credit hours
PSYH 332 Lifespan Development	3 credit hours
PSYH 330 Social Psychology	3 credit hours
PSYH 425 Crisis and Trauma	3 credit hours
PSYH 475 Advanced Behavioral Neuroscience	3 credit hours
PSYH 481 Special Topics in Psychology	3 credit hours

Additional Substance Abuse Counseling Graduation Requirements

- The General Education Core must be completed.
- Students must have a total of 39 upper division hours (300+ level course work).
- Students must earn a total of 120 credit hours.
- Students must have a minimum 2.0 GPA.

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Public Health

Public Health is the science and art of preventing disease, prolonging life, and promoting human health through organized efforts and informed choices. This program addresses the study of public health from a wide range of sociological, scientific, and mathematical approaches. It is intended to prepare students for a variety of career options, including healthcare administration, health and safety engineering, community health work, and health education. Further, it provides a pathway to graduate studies in public health, epidemiology, healthcare administration, social work, and related disciplines. When supplemented with medical school requirements, it is a good course of study for pre-med students who wish to understand the broader context of a physician's work. The Public Health minor complements a variety of disciplines including nursing, sociology, psychology, criminal justice, business, and others. Students develop skills in data analysis and interpretation, critical thinking, and effective communication in a variety of contexts.

Requirements for Public Health Major | 55 Semester Hours

Class Name	Credit Hours
BIOL 101/102 Human Biology and Lab	4 credit hours
PLSC 101 American National Government	3 credit hours
ECON 203 Macroeconomics	3 credit hours
PSYH 200 Introduction to Psychology	3 credit hours
SOCI 131 Introduction to Sociology	3 credit hours
PBHL 150 The History of Public Health	3 credit hours
WELL 272 Drugs and Society	3 credit hours
MATH 230 Elementary Probability and Statistics	3 credit hours
PSYH 301 Statistics for Psychology	3 credit hours
SOCI 300 Methods of Qualitative Research & Community Development	3 credit hours
WELL 350 Administration of Public Health	3 credit hours
PBHL 300 Epidemiology	3 credit hours
APST 381 Special Topics in Appalachian Studies OR SOCI 251 Social Problems	3 credit hours
PBHL 350 Health Services	3 credit hours
PBHL 375 Health Economics	3 credit hours
PBHL 450 Public Health Studies I	3 credit hours
PBHL 451 Public Health Studies II	3 credit hours
SOCI 387 Field Practicum	3 credit hours
Major Total	55 credit hours

Requirements for Public Health Minor | 19 Hours

Class Name	Credit Hours
BIOL 101/102 Human Biology and Lab	4 credit hours
MATH 230 Elementary Probability and Statistics	3 credit hours
PBHL 150 The History of Public Health	3 credit hours
APST 381 Special Topics in Appalachian Studies OR SOCI 251 Social Problems	3 credit hours
PBHL 300 Epidemiology	3 credit hours

PBHL 350	Health Services	3 credit hours
Minor Total		19 credit hours

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Religious Studies

Requirements for B.A. in Religious Studies | 30 Semester Hours

Students must also fulfill the B.A. language requirement by either:

- Completing six (6) credit hours in a world language (or the equivalent at the elementary level in one language not native to the student).
- Completing PHIL 260, Logic and Language (3 credit hours) and three (3) courses: GREK 113, Morphology & Syntax in Classical Languages I (1 credit hour); GREK 114, Morphology & Syntax in Classical Languages II (1 credit hour); and GREK 213, Intermediate Greek Readings (1 credit hour).

Required courses:

Class Name	Credit Hours
RLGN 211 History & Faith of Ancient Israel	3 credit hours

Or

HIST 113 Religion and Empire	3 credit hours
RLGN 231 Topics in World Religions	3 credit hours
PHIL 261 Topics in Philosophy of Religion	3 credit hours
RLGN 301 Readings in Religion	1 credit hour

Or

PHIL 301 Readings in Philosophy	1 credit hour
RLGN 302 Readings in Religion	1 credit hour

Or

PHIL 302 Readings in Philosophy	1 credit hour
RLGN 251 Topics in Early Christianity	3 credit hours
RLGN 356 Topics in Modern Christianity	3 credit hours
HUMN 477 Philosophy of Life	3 credit hours

Elective courses, any 3 of the following totaling 9 hours:

RLGN 454 Religion in the United States	3 credit hours
RLGN 452 Renaissance & Reformation	3 credit hours
RLGN 461 Islamic Religion and Civilizations	3 credit hours
RLGN 479 Seminar in Religion	3 credit hours
RLGN 495 Independent Study	3 credit hours
PHIL 352 Ethics & Political Philosophy	3 credit hours

Or a second sequence of:

RLGN 301 / PHIL 301 Readings in Religion / Readings in Philosophy	1 credit hour
RLGN 302 / PHIL 302 Readings in Religion / Readings in Philosophy	1 credit hour

Requirements for Minor in Religious Studies | 18 Semester Hours

18 semester hours in religion or religion/philosophy including:

Class Name	Credit Hours
PHIL 261 Topics in Philosophy of Religion	3 credit hours
At least 9 credit hours must be in courses numbered above 300	9 credit hours

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Sociology

Sociology is the scientific study of human behavior and society. Sociology students are introduced to the concepts, theories, and research methods to understand a broad range of human activities: from those that connect humankind across the globe, to activities that sustain meaning in a small group. The sociology major prepares students for graduate study or for entry-level employment in the criminal justice system, helping professions, and business community, as well as in a variety of other professions. Also, the sociology major was developed in a manner that will allow students to complete concentrations in related areas such as psychology or criminal justice.

Requirements for Sociology Major | 33 semester hours; 15 required semester hours, including:

Class Name	Credit Hours
BHSC 245 Basic Statistics: Theory & Application	3 credit hours
BHSC 246 Methods of Behavioral Science Research	3 credit hours
SOCI 131 Introduction to Sociology	3 credit hours
SOCI 460 Sociological Theory	3 credit hours
SOCI 490 Senior Seminar	3 credit hours
18 hours of elective courses, selected from:	
Any combination of non-required courses bearing a SOCI prefix. It is strongly recommended that PSYH 330, Social Psychology, 3 credit hours, be substituted for 3 hours of the elective requirement	

Requirements for Sociology Minor | 21 semester hours; 9 required semester hours, including:

Class Name	Credit Hours
BHSC 245 Basic Statistics: Theory & Application	3 credit hours
BHSC 246 Methods of Behavioral Science Research	3 credit hours
SOCI 131 Introduction to Sociology	3 credit hours
12 hours of elective courses, selected from:	
Any combination of non-required courses bearing a SOCI prefix. It is strongly recommended that PSYH 330, Social Psychology, 3 credit hours, be substituted for 3 hours of the elective requirement	

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Sports and Recreation Management

Requirements for Sports & Recreation Management Major (B.S.) | 55 Required Semester Hours

Twenty-four (24) required hours from Program Core plus 31 hours from either the Recreation Management Emphasis or the Sports Management Emphasis. This program provides students with the knowledge, skills, and confidence to handle a wide array of professional opportunities in public and non-profit sports and recreation program management. The major also prepares students for life-long involvement in leisure activities. Opportunities for careers may exist with professional sports teams, YMCA, health clubs, sporting goods sales, athletic management, parks, public-lands agencies, outfitters, commercial and non-profit recreation providers.

Class Name	Credit Hours
Program Core, 24 required hours:	
RECM 111 Introduction to Recreation & Leisure	3 credit hours
RECM 250 Recreation Programming	3 credit hours
RECM 350 Recreation Administration & Leadership	3 credit hours
BUAD 151 Business Essentials	3 credit hours
PHED 420 Physical Education: Exceptional Child	3 credit hours
ACTG 270 Accounting for Managers	3 credit hours
MGMT 352 Principles of Management	3 credit hours
MKTG 321 Principles of Marketing	3 credit hours
Outdoor Recreation Management Emphasis, 31 required hours:	
RECM 130 Wilderness Survival	3 credit hours
RECM 201 Principles of Outdoor Recreation	3 credit hours
RECM 235 Wilderness Adventure & Education	3 credit hours
RECM 237 Expedition Planning	3 credit hours
RECM 333 Recreation Visitor Behavior	3 credit hours
RECM 411 Interpretive Methods	3 credit hours
RECM 475 Philosophy of Recreation Management	3 credit hours
RECM 480 Environmental Ethics	3 credit hours
RECM 485 Recreation Management Internship*	6 credit hours
*May be repeated for credit	
A 1-hour RECM activity or certification course	1 credit hour
Sports Management Emphasis, 31 required hours:	
WELL 340 Anatomy & Physiology	3 credit hours
PHED 241 History/Philosophy of Physical Education	3 credit hours
PHED 351 Tests and Measurement in Health & Physical Education	3 credit hours
PHED 361 Organization & Administration: Physical Education	3 credit hours
PHED 421 Kinesiology (\$25 consumable items fee required)	3 credit hours
HMPF 435 Social Psychology of Sport & Human Performance	3 credit hours
HMPF 441 Exercise Assessment & Prescription (\$25 consumable items fee required)	3 credit hours
PHED 471 Sports Management Internship	6 credit hours
4-6 hours of activities courses (4 courses, 1-3 hours each), may be repeated	4-6 credit hrs

Recreation Management Minor

Requirements for Recreation Management Minor | 21 Credit Hours

Twenty-one (21) semester hours, which must include 6 hours of required courses (RECM 111 and RECM 201), plus 15 hours of electives (5, 3-hour courses):

Class Name	Credit Hours
Required courses, 6 hours:	
RECM 111 Introduction to Recreation & Leisure	3 credit hours
RECM 201 Principles of Outdoor Recreation	3 credit hours
Elective courses, 15 hours:	
RECM 130 Wilderness Survival	3 credit hours
RECM 235 Wilderness Adventure & Education	3 credit hours
RECM 237 Expedition Planning	3 credit hours
RECM 250 Recreation Programming	3 credit hours
RECM 333 Recreation Visitor Behavior	3 credit hours
RECM 350 Recreation Administration & Leadership	3 credit hours
RECM 411 Interpretive Methods	3 credit hours
RECM 475 Philosophy of Recreation Management	3 credit hours
RECM 480 Environmental Ethics	3 credit hours
RECM 485 Recreation Management Internship	6 credit hours

Science Education Majors – Specialization Component for Certification

Students who wish to teach secondary science may choose one of the following certification areas: Biology, Chemistry, or Mathematics.

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Supply Chain Management

Supply Chain Management has become one of the most critical areas for companies with a need to move products around the globe. The major in Supply Chain Management offers students who are interested in business management a focused career pathway in manufacturing, purchasing, transporting, and distributing, while also providing a broad background that could lead to employment in other areas of management. Through learning how to manage risk, innovation, and the dynamics of supply chains in the current global economy, students develop skills in problem solving, critical thinking, data analysis, and decision-making that transfer to many contexts.

Requirements for Supply Chain Management Major | 54 Semester Hours

Required Courses for all Accounting, Business Management, and Marketing Majors | 18 Credit Hours

Class Name	Credit Hours
ACTG 270 Accounting for Managers	3 Credit Hours
BUAD 151 Business Essentials	3 Credit Hours
BUAD 302 Business Communications	3 Credit Hours
BUAD 310 Legal Environment of Business	3 Credit Hours
CIS 241 Intermediate Technology Applications	3 Credit Hours
ECON 204 Principles of Microeconomics	3 Credit Hours

Supply Chain Management Major | 36 Additional Credit Hours

Class Name	Credit Hours
CIS 250 Introduction to Computer Programming	3 credit hours
MGMT 205 Forecasting and Logistics	3 credit hours
MGMT 210 Sourcing and Operations	3 credit hours
BUAD 303 Business Statistics	3 credit hours
BUAD 351 Principles of Finance	3 credit hours
MGMT 352 Principles of Management	3 credit hours
MGMT 356 Supply Chain Management Technologies	3 credit hours
MGMT 362 Supply Chain in Action	3 credit hours
MGMT 374 Operations Management	3 credit hours
MGMT 425 Supply Chain Management Practicum	3 credit hours
BUAD 430 Project Management	3 credit hours
BUAD 451 Strategic Decisions	3 credit hours
Program Total	54 credit hours

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Theatre

The Theatre Minor is designed for students seeking to augment their major program of study at Union College. The Theatre Minor focuses on theatre as a humanistic discipline, concentrating on fundamentals of interpersonal communication, building individual's confidence through storytelling and advocacy, and student's contributions to the local creative and cultural landscape of Kentucky. The minor consists of a selection of courses that expose students to the fundamentals of theatrical production, including acting, writing, directing, and design. Courses integrate history, theory, and practice to give students a holistic understanding of performance, expanding student's overall cultural competency.

Requirements for Theatre Minor | 18 Hours

Any combination of THTR classes that adds up to 18 credits satisfies the theatre minor.

Class Name		Credit Hours
THTR 131	INTRO TO THEATRE	3 credit hours
THTR 151	INTRO TO ACTING	3 credit hours
THTR 252	VOICE AND MOVEMENT	3 credit hours
THTR 301	DIRECTING	3 credit hours
THTR 304	DEvised THEATRE	3 credit hours
THTR 330	THEATRE FOR SOCIAL CHANGE	3 credit hours
THTR 180	THEATRE PRACTICUM	1 credit hours
THTR 280	THEATRE PRACTICUM	2 credit hours
THTR 380	THEATRE PRACTICUM	3 credit hours
THTR 480	THEATRE PRACTICUM	4 credit hours

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Course Descriptions

ACTG 270: Accounting for Managers, (F, S) (3). This is an Accounting course for non-majors. It is a study of financial statements without the debits and credits. The study will emphasize analysis and use of financial statements rather than creation of them. This will be more beneficial for managers and investors than a course on bookkeeping.

ACTG 271: Managerial Accounting, (S) (3). Introduction to analysis and interpretation of accounting data with emphasis on its use by managers in planning operations, controlling activities, and in decision making. ACTG 270 accepted as substitute.

ACTG 272: Financial Accounting, (F) (3). An introduction to accounting concepts and principles with emphasis on preparations and reporting of financial information.

ACTG 331: Cost Accounting, (F) (3). Concepts of cost and methods in developing information for use by management in decision making process. The course is an analysis of costing from products, projects, and management control. Prerequisites: ACTG 272.

ACTG 371: Intermediate Accounting I, (F) (3). Accounting topics include the income statement, balance sheet, and change in owners' equity statements. Cash, receivables, inventories, plant, investments, and intangible assets are also covered. Prerequisites: ACTG 371.

ACTG 372: Intermediate Accounting II, (S) (3). Continuation of Accounting 371 covering current liabilities, contingent liabilities, long-term liabilities, accounting for income taxes, and owners' equity. State of Change in Financial Position, financial statement analysis, and the impact of changing prices are also covered. Prerequisites: ACTG 271.

ACTG 376: Tax Accounting, (S) (3). This course is a fundamental study of the federal income tax structure with emphasis upon the taxation of individuals. Included is an introduction to taxation of corporations and partnership, as well as administrative procedures and research. This course is relevant for any student, in any major.

ACTG 433: Auditing, (S) (3). This course serves as a Capstone course for accounting majors. Topics covered include discussion of the ethics and liability of the verification, analysis, and interpretation of accounting records, and issuance of audit reports and other reports by CPAs. Prerequisites: ACTG 372 and BUAD 351. This course must be taken at Union College. Students must earn a grade of "C" or higher in this course.

ACTG 471: Advanced Accounting, (F) (3). This course is an advanced in-depth discussion of accounting for joint ventures, consolidated statements, and inter-company transactions. Prerequisite: ACTG 372.

ACTG 472: Not-for-Profit & Fund Accounting, (S) (3). This course covers governmental and not-for-profit accounting, interim and segmental reporting, multi-national accounting, and insolvency. Prerequisite: ACTG 372.

ACTG 481: Special Topics in Accounting, (On Demand) (3). This is an advanced course on selected topics of interest in the field of Accounting. Prerequisites: Business Department major/minor with junior or senior standing and 21 credit hours in business courses or permission from instructor.

ACTG 485: Accounting Internship, (On Demand) (1-6). Supervised practical field experience at approved business site is combined with an academic component to strengthen the student's theoretical background. To be considered for a placement, the student has attained junior or senior status with 15 hours of completed Union College Department of Business courses, a Department of Business GPA of 3.0, and approval from School Dean. Students work 40 hours for each hour of credit and may earn up to a maximum of six (6) credit hours for successful performance. Course will be taken on a credit/fail basis only.

ANTH 221: Introduction to Cultural Anthropology, (F) (3). A survey of the archaeological and biological history of mankind as it relates to the development of man and his culture, with comparisons drawn between the cultures of primitive people and western civilizations.

ANTH 234: American Folklore, (F) (3). Folklore speaks to the creative expression of tradition in everyday life including the cultural, social, and family groups we are part of, and the formal or informal rituals in which we participate. Examples in this course are drawn from the diversity of American life. Topics may include, but are not limited to, storytelling, social media, humor, food ways, architecture, music, and the handmade. Students learn how folklore is documented and analyzed through readings, fieldwork, and presentations. Odd years only.

ANTH 251: North American Indian Cultures, (On Demand) (3). The historical development of North American Indian technology, and the cross-cultural study of four diverse Indian cultures at the time of White contact will be the main focus of this course. Economics, ecology, technology, role relations, medicine, politics, and conflict will be the focus of study in each culture.

ANTH 360: Introduction to Physical Anthropology, (On Demand) (3). This course will focus on the diversity of human life in the present and in the past. It will delve into such topics as humanity as a biological organism, and the behavioral and social life of primates and human ancestors. This course will consider ethnographic, physiological, and archaeological evidence.

APST 104: Introduction to Appalachian Studies, (S) (3). Beginning with the landmark contributions of Mr. Cratis Dearl Williams, this course will introduce students to the theories, methods, and understandings of Appalachian experiences. A broadly interdisciplinary course, it will incorporate the contributions of sociologists, anthropologists, historians, cultural geographers, psychologists, folklorists, and others.

APST 202: Service Learning, (On Demand) (3). This course has, as its major objective, the encouragement of critical thinking and practical experience, with respect to the concepts of citizenship and social responsibility. To achieve this objective, the course will examine Service Learning from historical and contemporary perspectives and provides students with a guided community-based learning experience.

APST 203: Wilderness in Appalachia, (S) (3). An introduction to wilderness in Appalachia as seen from ecological, social, political, and economic perspectives. Lectures, class discussion, readings, and writing assignments will lead up to, reflect upon, and complement a sustained and intensive wilderness field experience, which will occur during the spring break. Prerequisite: permission from instructor.

APST 204: Appalachian Culture, (S) (3). This course will introduce the culture of the Appalachian Region, from its earliest inhabitants, through the various immigrant groups, to the current situation of multicultural mixture.

APST 241: Sociology of Appalachia, (F) (3). Uses the basic principles and concepts of sociology to study life in the Appalachian region. The areas of study include socio-economic class, culture, folklore, social institutions, the family, religion, schooling, poverty, and development. Cross-lists with SOCI 241.

APST 300: Methods Qualitative Research & Community Development, (F) (3). This course will provide an introduction to the methods and tools of qualitative analysis and writing. Course material will include training in qualitative research, emphasizing interviewing, oral history collection, and historiography. Students will also have the opportunity to examine ethical issues related to historical writing, research, and presentation of materials. In addition, the course will cover the basic skills needed to conduct historical research, including locating, using, and evaluating sources, and will explore how such work can shape and inform community development initiatives at the local level. Readings will be assigned regarding qualitative methods as well as community development. Students will also be trained in oral history collection. Each student will be required to collect at least one oral history for this course.

APST 304: Peoples of Appalachia, (S) (3). Those living in the southern Appalachian Mountains are not a homogeneous bunch. Instead, there are diverse identities and histories for those living on the ridges, in the valleys, and in the hollows. By examining case studies of such peoples as African Americans, Hispanics, Cherokee, Melungeons, and coal miners, this course will explore these diverse experiences. Audiovisual materials will be used to supplement discussions and lectures.

APST 401: Feuds, Fights, Murders and Violence: Issues in Appalachia, (F) (3). Employing the approaches of a number of social scientific perspectives, this course will try to better understand violence, murder, and feuding in Appalachia and in the Upland South. This course will consider these issues through the examination of a series of case studies including a murder case in the Ozarks, the Hatfield-McCoy feud in Kentucky and West Virginia, and the violation of honor leading to violence in the South. Cross-listed with SOCI 401.

ACSI 250: Mathematical Theory of Interest, (F) (3). Actuaries focus on using math and statistics to evaluate risk and make strategic decisions. This course covers a range of topics relevant to actuaries, including measurement of interest rates, interest theory, and the pricing of bonds, mortgages, annuities, and other financial instruments. This course will also fully prepare you to successfully take the Society of Actuaries Financial Mathematics (FM) Exam and its equivalents. This online class has optional live sessions. Prerequisites: MATH 241.

ASCI 350: Probability for Actuaries, (S) (3). Actuaries and quantitative professionals deal primarily in probabilities. This course will cover a wide range of topics and introduce you to core probability concepts needed for Actuarial and Quantitative work. By the end of this course, you will learn all of the content required for the Society of Actuaries P Exam - as well as its equivalents – and be able to apply concepts of probability to real-world scenarios. This online course has optional live sessions. Prerequisites: MATH 241, MATH 242, MATH 243.

ASCI 450: Actuarial Sciences and Risk Management with R, (S) (3) This course focuses on team-based problem solving in actuarial science & risk management. Students will learn the fundamentals of the R programming language, RStudio and R Markdown, and use these tools to complete a range of projects. Projects vary, but may include bond and loan amortization, analysis of the efficient frontier and the capital asset pricing method, insurance liability & estimates of expected loss. This course culminates in a capstone project that ties together skills from throughout the Actuarial Sciences program. Prerequisites: MATH 241, CIS 250, ASCI 250.

ATHT 131: Basic Athletic Training, (F, S) (3). Basic training in the prevention, recognition, care, assessment, and treatment of athletic injuries.

ATHT 152: Bracing and Taping, (F, S) (3). Development of skills in taping, bracing, and equipment fitting that are required for the entry-level athletic trainer. Prerequisite: ATHT 131.

ATHT 310: Sports Nutrition for Health Professionals, (F, S) (3). This course covers the essentials of human nutrition that improve and sustain optimal performance for sport and exercise. The effects of eating disorders (in both male and female athletes), weight management, and sport nutrition resources are also discussed.

BHSC 245: Basic Statistics: Theory & Application, (S) (3). Basic concepts of descriptive and inferential statistics; illustrations of applications in the fields of sociology, psychology, business, education, and natural science.

BHSC 246: Methods of Behavioral Science Research, (F) (3). Techniques and philosophies of behavioral science research including experimental, quasi experimental, survey, evaluation, field, and unobtrusive designs for the collection and interpretation of information.

BIOL 101. Introduction to Human Biology. (F, S) (3). An introductory study of the human body, including the basic structure and function of the tissues and major organ systems and the effects of diet, exercise, stress, and environmental change on human health. Strongly recommended for nursing and exercise science majors. Cannot be applied toward the biology major

BIOL 102. Human Biology Lab. (F, S) (1). Exercises and investigations into the structure and physiology of humans. Cannot be applied toward the biology major. Co-requisite of BIOL 101, Human Biology

BIOL 104. Introduction to Human Sexuality. (on demand) (3). This course provides a comprehensive introduction to the biological, psychological, behavioral, and cultural aspects of human sexuality with biological emphasis. Contemporary research addressing such issues as communication, love, relationships, sexual problems, therapies, pregnancy, sexually transmitted diseases, and childbirth is discussed

BIOL 109. Elements of Biology. (F, S) (3) An introduction to the principles of modern biology for nonmajors including: biological chemistry, cell biology, modern and classical genetics, cellular energetics, ecology, and evolution.

BIOL 110. Elements of Biology Lab. (F, S) (1) A companion laboratory of BIOL 109 with emphasis on data collection and analysis for nonmajors.

BIOL 111. General Biology. (F, S) (4) A course emphasizing general concepts of modern biology for freshman biology majors. Topics surveyed include molecular and cell biology, bioenergetics, molecular and Mendelian genetics. This course includes a laboratory component. *Prerequisites:* high school biology and chemistry and permission of instructor.

BIOL 112. Organismic Biology. (F, S) (4) An introduction to evolution, physiology, and diversity of organisms, designed for elementary education majors. This course includes a laboratory component. Prerequisite: BIOL 109 and BIOL 110 or equivalent.

BIOL 232. General Zoology. (S) (4) A survey of the animal kingdom with emphasis on physiological systems, evolution, and diversity. This course includes a laboratory component. *Prerequisite:* Biology 111 or consent of instructor.

BIOL 233. General Botany. (F) (4) A survey of the organisms which possess cell walls including: Protocista, Fungi, and especially plants. Emphasis is given to ecological and economic importance, morphology, and evolutionary relationships. The course includes a laboratory component. *Prerequisite:* Biology 111 or consent of instructor.

BIOL 235. Microbiology for Health Professions. (S) (4) This is a foundation course designed in collaboration with nursing and other health sciences. Students will be introduced to the classification, morphology, physiology, bacteria, fungi viruses, and other microorganisms; their role in nature, health, and industry. This course includes a laboratory component. *Prerequisites:* BIOL 101, BIOL 109 or BIOL 111 and CHEM 230.

BIOL 330. Vertebrate Anatomy and Histology. (S) (4) The anatomical study of the tissues, organs, and organ systems of vertebrates with emphasis on human anatomy. The course includes a laboratory component that primarily involves detailed study of the human skeleton, other anatomical structures, and microscopic examination of vertebrate tissues. *Prerequisite:* BIOL 101, 109, 232 or consent of instructor.

BIOL 331. Human Physiology. (F, S) (4) A study of the functioning of the human organ systems with normal and clinical considerations. *Prerequisites:* CHEM 121

BIOL 334. Microbiology. (On demand) (4) An introduction to the classification, morphology, physiology, and genetics of the bacteria, fungi, viruses, and micro metazoans, as well as their roles in nature, health, and industry. This course includes a laboratory component. *Prerequisites:* BIOL 111 and CHEM 122 or consent of instructor.

BIOL 362. Transmission and Population Genetics. (F) (4) The study of the processes by which genes and chromosomes are transmitted from parent organisms to offspring and from one unrelated organism to another. It is also an introduction to the genetic composition of populations and the changes in genetic composition of populations as they undergo evolution. This course includes a laboratory component. *Prerequisites:* BIOL 111 or consent of instructor,

BIOL 363. Molecular Genetics. (S) (4) The study of the molecular structure of genes and chromosomes, and the molecular mechanisms of DNA replication, transcription, translation, repair, and regulation are provided. This course includes a laboratory component. *Pre-requisites:* BIOL 111 or consent of Professor

BIOL 421. Biochemistry. (On demand) (3) A survey of major topics of biochemistry including thermodynamics, enzyme kinetics, and photosynthesis; and the structure, synthesis and metabolism of lipids, carbohydrates, proteins and nucleic acids. *Prerequisites:* BIOL 111 and CHEM 311 or consent of Instructor

BIOL 430. Embryological Development. (On demand) (3) Invertebrate and vertebrate developmental biology, embryonic gastrulation neurulation, patterning, and organogenesis; plant development and gene function, cell signaling, and signal transduction during embryogenesis. Includes evo-devo: evolution and

embryological development. Pre-requisites: BIOL 232, BIOL 233, and CHEM 122 or consent of professor.

BIOL 431. Cell Biology. (F) (4) An in-depth survey of the structure and function of a wide range of living cells with consideration of biochemical and biophysical bases of this structure and function. Certain characteristics of viruses are also considered. *Prerequisites:* BIOL 232 and 233 and CHEM 122 or consent of instructor. BIOL 363 is highly recommended.

BIOL 436. Evolution. (On demand) (3) An introduction to the theory and processes of evolutionary biology. Topics include the historical development of the discipline, the principal mechanisms by which it occurs, tempo and mode of speciation, both biological and geological sources of evidence, and the impact of evolutionary thought on biology and society. *Prerequisites:* BIOL 232 and 233. BIOL 362 is recommended as a pre- or co-requisite,

BIOL 441. Ecology. (F) (4) A study of the relationships between organisms and their abiotic and biotic environment including biogeochemical cycles, population dynamics, diversity, and community organization and structure. *Prerequisites:* BIOL 232 and BIOL 233.

BIOL 495: Independent Study and Research. (On demand). (1-3). An introduction to the methods of science through original research. For advanced students who have demonstrated potential for performing an independent investigation of a substantive problem. The problem is chosen and carried out in collaboration with the instructor. A typewritten report in publication style is required. *Prerequisite:* permission of instructor.

BUAD 151: Business Essentials, (F, S) (3). A study of business functions, methods of business operation, types of business ownership, and the role of business organizations in contemporary society. The course covers the organization and role of business in the free enterprise system. The course is designed to provide an overview of the field of business and to provide a framework into which specialized fields may be studied.

BUAD 302: Business Communications, (F, S) (3). Methods of mastering writing, research, and presentation skills needed in business. The course emphasizes preparing, organizing, and communicating business information. Also enhances speaking, reading, and listening skills. *Prerequisite:* BUAD 151.

BUAD 303: Business Statistics, (F, S) (3). This course is designed to familiarize basic concepts of statistics and statistical methods used in business. This course aims to equip students with the capability for applying statistical methods and interpreting the meaning of the result. It includes topics such as: organizing and interpreting data; probability; hypothesis testing; correlations and regressions; Chi square and F-distributions; and nonparametric statistics. *Prerequisite:* MATH 110 or MATH 131.

BUAD 310: Legal Environment of Business, (F, S) (3). This course provides a theoretical legal framework within which responsible decisions can be made. The course relates legal principles of the firm's responsibility to society. The traditional legal environment topics, such as judicial reasoning, administrative law, antitrust law, contracts, torts, agencies, real and personal property, leases, bankruptcy, and business-related laws are discussed.

BUAD 351: Principles of Finance, (F) (3). This course introduces managerial finance as a functional area of business, including financial analysis, working capital practices, capital budgeting, corporate valuation, and cost of capital and capital structure, while building upon the quantitative analysis

associated with the managerial financial activities of an organization. Financial analysis will require expanded use of Excel. Prerequisite: ACTG 270 or ACTG 271.

BUAD 376: Entrepreneurship, (S) (3). This course provides the tools for establishing a successful small business venture. In this applied course, students will actually begin and implement a small business by developing a business plan that includes the business purpose, competitive advantage, marketing plan, management team, facility location, and financial requirements. Prerequisites: BUAD 151, MGMT 352. Odd years only.

BUAD 402: Business Protocol, (F) (3). This is a study of domestic and international protocol procedures for conducting business in a global society. This course will examine customs, courtesies, lifestyle, the people, and a nation's history and government. Prerequisite: BUAD 151.

BUAD 404: Investments, (On Demand) (3). Intermediate discussion of stocks, bonds, and other investments, analysis of the theories of investing, and return and risk valuation of stock. Prerequisite: BUAD 351 or permission from instructor.

BUAD 430: Project Management, (S) (3). This course introduces the key concepts, tools, and principles of strategy formulation and competitive analysis. It is concerned with managerial decisions and actions that affect the performance and survival of business enterprises. The course is focused on the information, analyses, organizational processes, and skills and business judgment managers must use to devise strategies, position their businesses, and define firm boundaries and maximize long-term profits in the face of uncertainty and competition. Prerequisites: BUAD 151, MGMT 352.

BUAD 445: Global Business, (S) (3). A study of the global business practices commonly used throughout the world. This course will focus on functional areas of business and their various applications in a global setting. Prerequisite: BUAD 151.

BUAD 451: Strategic Decisions, (S) (F) (3). A Capstone course for Business Management majors which attempts to bring together knowledge acquired in all of the functional areas of business (accounting, economics, finance, management, marketing and technology). Strategic decision-making models will be introduced to develop the implementation of functional knowledge to life situations. Prerequisites: senior status in Business Administration or Sports Management program and the successful completion of ACTG 270 or ACTG 271, BUAD 310, BUAD 351, ECON 204, MKTG 321 and MGMT 352. Students must earn a grade of "C" or higher in this course.

BUAD 481: Special Topics in Business, (On Demand) (3). Investigation of selected topics of importance in the field of business. Prerequisite: Business Department major or minor with junior or senior standing and 21 credit hours in business courses or permission from instructor.

BUAD 485: Business Administration Internship, (On Demand) (1-6). Supervised practical field experience at approved business site is combined with an academic component to strengthen the student's theoretical background. To be considered for a placement, the student has attained junior or senior status with 15 hours of completed Union College Department of Business courses, a Department of Business GPA of 3.0, and approval from School Dean. Students work 40 hours for each hour of credit and may earn up to a maximum of six (6) credit hours for successful performance. Course will be taken on a credit/fail basis only.

CHEM 121-122. General Chemistry I, II. (F, S) (4, 4). A 2-semester sequence. A systematic study of the fundamentals and applications of the experimental and theoretical laws of chemistry. Major topics

include nomenclature, stoichiometry, chemical thermodynamics, equilibrium, acid-base reactions, atomic and molecular theory and structure, chemical kinetics, and nuclear chemistry. Examples and problems are drawn from all areas of chemistry. Laboratory experiments in general chemistry illustrate basic principles and develop laboratory skills. Experiments are coordinated with the General Chemistry topics. Inorganic qualitative analysis is included in CHEM 122. Three hours of laboratory per week. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of high school algebra, or MATH 131 (which may be taken concurrently), or a composite ACT score of 21. CHEM 121 and CHEM 122 are prerequisites to all other chemistry courses.

CHEM 212: Analytical Chemistry, (F) (4). A study of important volumetric and gravimetric analyses presented from a modern theoretical standpoint. Also an introduction to the study of advanced methods of analysis including some newer instrumentation techniques. *Prerequisites:* CHEM 122 or consent of instructor.

CHEM 230: General, Organic & Biochemistry, (F, S) (3). This is a foundation course designed in collaboration with nursing and health sciences. Students will be introduced to the basics of general, organic, and biochemistry to help them understand the role of chemistry in our lives and health. Both quantitative and qualitative descriptions of matter and the changes that matter undergoes will be studied. The interrelationships of chemistry with other areas/disciplines will be stressed. Chemistry boosts numerical, analytical, and problem-solving skills which are valuable in the health professions and general education. *Prerequisite:* high school AP Chemistry or permission from instructor.

CHEM 311-312. Organic Chemistry. (F, S) (5, 5). A 2-semester sequence. A course in the chemistry of organic compounds. Unitized laboratory work is designed to illustrate the basic principles of organic chemistry. *Prerequisites:* CHEM 122. (CHEM 311- Fall; CHEM 312- Spring).

CHEM 313: Descriptive Physical Chemistry, (On Demand) (3). A study of the fundamentals of thermodynamics, quantum theory, chemical kinetics, and statistical mechanics. *Prerequisites:* CHEM 121 and CHEM 122, or PHYS 111 and PHYS 112, or PHYS 211 and PHYS 212.

CHEM 314: Physical Chemistry Lab, (On Demand) (1). A laboratory course designed to accompany CHEM 313, CHEM 332, and PHYS 331.

CHEM 332: Physical Chemistry, (On Demand) (3). A study of atomic structures and chemical bonding in terms of modern quantum theory. Topics include quantum mechanics, molecular spectra, and chemical kinetics. *Prerequisites:* MATH 242 and PHYS 212. Odd years only.

CHEM 381: Special Topics in Chemistry, (S) (On Demand) (3-12). An in-depth study of selected chemistry topics presented under formal classroom organization. *Prerequisites:* CHEM 311 or CHEM 312 or permission from instructor.

CHEM 411: Inorganic Chemistry, (S) (On Demand) (4). A systematic study of the structure, properties and reactions of non-carbon elements, with emphasis on the non-metals and the transition metals. Topics include atomic-molecular structure and bonding, physical methods of investigation, organometallic chemistry, and bioinorganic chemistry. *Prerequisites:* CHEM 121 and CHEM 122.

CHEM 413: Organic Spectroscopy, (F) (3). Organic spectroscopy is a one-semester course that will provide the student with an in-depth understanding of the instrumentation and techniques of modern spectroscopic methods and their application to structural elucidation. Interpretation of spectral data

obtained from techniques such as MS, UV-VIS, IR, H1-NMR, and C13-NMR. COSY and NOESY will be stressed during the semester. Prerequisites: CHEM 311 and CHEM 312.

CIS 241: Intermediate Technology Applications, (F, S). (3). An intermediate level of office productivity applications, such as word processing, spreadsheet, presentation, database, and web-page design are presented. Students will gain an in-depth theoretical and practical knowledge of these applications. They will be capable of implementing the knowledge attained in this course to solve business problems.

CIS 250: Introductory Programming, (F), (3). This is an introductory course in computer programming in which visual programming and object-oriented programming is employed. It introduces basic programming concepts such as data types, decisions, looping, arrays, files, and databases. The course will utilize the most current language in the marketplace.

CIS 300: Computer Hardware and Maintenance, (S), (3) This course introduces students to the physical components of a computer as well as basic hardware support and troubleshooting. At the end of the course, students will be able to identify the various parts of a computer and understand how they function together.

CIS 310: Operating Systems, (S), (3) This course examines the principles, techniques, and trends of contemporary operating systems such as Windows and Linux. The concepts presented include administration, remote access, security, and troubleshooting.

CIS 320: Computer Networking, (S), (3) This course will introduce students to basic network design including physical hardware, cabling, and software that make up a computer network. Emphasis will be placed upon the analysis and design of networking in an organizational environment.

CIS 485: Computer Information Systems Internship, (F, S), (3-6) Supervised practical field experience at approved business site is combined with an academic component to strengthen the student's theoretical background. Students can earn three (3) or six (6) credit hours for successful performance, with 100 hours worked for three (3) credit hours and 200 hours worked for six (6) credit hours. Course will be taken on a credit/fail basis only.

COMM 211: Public Speaking, (F) (Online) (3). Examines the principles and process of speech communication through applied oral presentations in a small group public speaking setting. Discussion and application of basic theories of human communication and role of audience in the communication process.

COMM 221: Introduction to Media Studies, (F, S) (Online) (3). Examines the history of mass communication with an emphasis on the evolution of media. This course enhances media literacy by addressing the history of media through the societal, economic, technological, and political spectrums through which the media is influenced and influences. Formerly ENCO 221.

COMM 232: Layout & Design I, (F) (Hybrid) (3). Students learn the basics of layout and design terminology and begin developing projects using various media programs.

COMM 234: Digital Career Management, (F) (Online) (3). Students explore various aspects of life and career management within the field of Communications and related disciplines. This course provides students with the skills to understand their digital footprint, prepare for a career, and to create the space and beginnings of a personal portfolio.

COMM 235: Social Media I, (F, S) (Online) (3). Competency in the online arena requires an understanding of the Internet as more than “just another channel” or promotional vehicle. Students are introduced to the history, theory, technology, and uses of social media. Social Media are technologies enabling individuals to create, collaborate, and share messages with audiences of all sizes.

COMM 261: Writing & Speaking for the Media, (F) (3). Students learn basic journalism writing—the fundamentals of writing and speaking for print, broadcast, internet and emerging media, focusing on writing and speaking to inform, the editing process, and integration of visual and audio elements.

COMM 322: Persuasion, (S) (3). Examines classical and contemporary theories and applications of rhetoric, persuasion, propaganda, social change and the processes involved in attitudinal changes.

COMM 331: Video Production I, (F) (3). In studio production applicable for a variety of digital platforms. Work will include television, web, and social media. Specific topics covered include pre-production planning, writing, and strategy, production skills involving camera, lenses, lighting, switchers, directing, and related post-production activities including editing.

COMM 332: Layout and Design II, (S) (Hybrid) (3). Students build upon Layout and Design I lessons—looking more in depth at the software (Illustrator and InDesign), theory and practice of layout and design within print, online, and magazine. This course focuses on more complex products such as packaging, those with multiple pages, and single page pieces which are part of a larger campaign.

COMM 336: Layout and Design III, (S, on demand) (Hybrid) (3). Students build upon Layout and Design II lessons—exploring theories, styles, and approaches through implementation and practice. This course focuses on more complex products such as packaging, print design, typography design, illustration, and campaign development. Prerequisites: COMM 221, COMM 232, and COMM 363. Odd years only.

COMM 340: Social Media II, (F, S) (Online) (3). Students will understand how to determine a target audience, how to figure out what interests them, and when and how to reach them. Students will navigate around social platforms and know when to use which platform. They will also explore the behavioral and psychological factors that drive social media, how to use social media without spending money to build community and market a brand, and to design effective communication strategies of social networks through storytelling.

COMM 342: Writing & Speaking for the Media II, (S) (3). Building upon the journalistic writing and speaking skills from Writing and Speaking for the Media I, students continue to hone their skills in writing and speaking for print, broadcast, internet and emerging media. Students apply strategies of persuasion, storytelling, and marketing through blogging, vlogging, and video production. The editing process is more fully highlighted and explored in this course. Prerequisite: COMM 261.

COMM 363: Web I, User Experience & Design, (F) (Hybrid) (3). Students learn and practice designing a website using digital strategy with the user in mind. This course covers market research, graphic design for the web, project management, and digital strategy.

COMM 364: Web II, Development, (S) (Hybrid) (3). Students study and implement how to deconstruct a website design in order to build a site using WordPress' Content Management System and learn how to develop a mobile responsive site that communicates a message. Prerequisite: COMM 363.

COMM 422: Video Production II, (S) (3). This course builds upon Video Production I and emphasizes location and field production. Specific topics covered include advanced production skills: camera, lenses, lighting, directing and editing. Genres, styles, basic shots, and reproducing shots will be explored. Work will include advertising and PR products and will frequently be on-location (some in-studio work). Prerequisite: COMM 331.

COMM 441: Propaganda, (3). Propaganda is pervasive; it is completely encompassing our modern culture, and our world. “It is in the very air we breathe” (Nimmo, 1993). It is a major form of social power with consequences. This course will analyze the techniques and media, the effects and ethics of persuasion and propaganda—intended and unintended, individual, and societal.

COMM 443: Social Media III, (F, S) (Online) (3). This survey course will examine how mobile marketing fits into the overall digital and social media strategy. We will investigate geo-marketing, localized marketing, designing for mobile media, mobile websites, mobile advertising, e-commerce and mobile spending, SMS, and mobile apps. Students will develop a creative mobile marketing campaign that integrates with a traditional marketing plan.

COMM 453: Strategic Storytelling, (S) (3). When you share a brand’s message via stories, you are more likely to impact the target audience. The impact of great stories is measured in how they affect people’s emotions and perceptions. This course shares some of the greatest brand stories (and some to learn from). Students will produce a package and a plan for stories designed to captivate stakeholders and produce results for an organization. The emphasis of this course isn’t so much direct outcomes, but great stories that help us achieve those outcomes.

COMM 462: Media Law, (S) (3). Examines segments of the U.S. laws which govern mass media including freedom of the press (First Amendment to the U.S. Constitution, libel, invasion of privacy, pornography/obscenity). This course will address laws and regulations pertaining to print, radio, broadcast, and web media, with an emphasis on broadcast media. Prerequisite: junior standing.

COMM 464: Web III: Projects, (F, on demand) (3). Students will learn how to develop an integrated digital media campaign. Through strategic planning, students will develop a web project from initial inquiry through media ready implementation. Prerequisites: COMM 363, COMM 364, COMM 235, and COMM 340.

COMM 472: Mass Communication Capstone, (S) (3). In this course, students complete a semester long group media project. Students are also responsible for all aspects from idea development and content production to promotion. Prerequisite: junior standing.

COMM 480: TV Production or PR Practicum, (On Demand) (1). Supervised on-campus field work in communication, either in television production or public relations. Television production provides experience in developmental, creative work, concepts and storyboards, production (including camera work, lighting, and talent) and 103 and post-production (particularly as it involves editing). PR Practicum provides experience in writing, reporting, editing, photojournalism, advertising, and desktop publishing. Prerequisites: COMM 380 and junior standing. May be repeated for credit.

COMM 485: Internship: Communication, (On Demand) (up to 6). Professional experience with focus on gaining experience in writing, editing, design, advertising, or photography. Students work a minimum of 30 hours for each hour of credit. Prerequisites: 14 credit hours in completed COMM courses and junior or senior standing.

CRJU 101 (Introduction to Criminal Justice) and PLSC 101 (American National Government) are prerequisites to all CRJU courses numbered 200 or greater.

CRJU 101: Introduction to Criminal Justice, (F, S) (3). An introduction to the system and process of criminal justice encompassing the history and development of both, as well as an examination of their contemporary characteristics.

CRJU 201: Criminal Procedure, (Offered Annually) (3). Substantive law course examining prevailing legal standards for arrest, search and seizure, self-incrimination and confessions, the exclusionary rule, and other matters pertaining to suspect rights and governmental prerogatives in the context of criminal proceedings. (Alternates [F] / [S] with CRJU 205.)

CRJU 205: Criminal Law, (Offered Annually) (3). Substantive law course providing an introduction to criminal law including the origins and principles of criminal law, criminal liability, criminal defenses, and crimes against persons and property. (Alternates [F] / [S] with CRJU 201.)

CRJU 209: American Courts & Judicial Process, (S) (3). This course presents an overview of the development of federal and state court systems examining structure, administration, case flow, and interaction with other portions of the criminal justice and governmental systems. Cross-listed with PLSC 209.

CRJU 302: Methods & Problems of Investigation, (3). This course introduces the student to the fundamentals of police science investigation. An overview of the current problems that law enforcement investigators face will be addressed. Also, a comparative analysis of different agencies will be outlined. Prerequisites: CRJU 101 or permission from instructor. Cross-listed with LAWS 302.

CRJU 306: Topics in Criminal Justice, (3). Provides in-depth coverage of topics not included in the regular Criminal Justice curriculum. Cross-listed with PLSC 306.

CRJU 382: Legal Political Thought - Classical, (F) (3). This course examines ancient understandings of law, statesmanship, and the good society. Problems relating to these interwoven components of the political arena are considered on both theoretical and practical levels, the first concerning what the relationship of citizen and state should be, the latter involving review of practices as seen through the lives of actual rulers from ancient Greece and Rome. Cross-listed with PLSC 382.

CRJU 383: Legal Political Thought - Modern, (S) (3). This course examines the way in which seminal questions with relation to the proper foundations and structures of society have been approached in the modern era. Analysis includes examination of founders, religion, and the military, especially in connection to the concepts of fortune and necessity. Cross-listed with PLSC 383.

CRJU 387: Criminal Justice Practicum, (On Demand) (3). Criminal justice practicum consists of an 80-hour field placement in a law enforcement, legal/judicial, or corrections environment. Prerequisites: CRJU 200 or permission from instructor and upper division standing.

CRJU 390: Comparative Criminal Justice System I, (F) (1). Course examines and compares structural and policy attributes of non-American systems of justice. Specific systems considered vary continuously by semester and academic year and include those outside the Anglo-American and Western traditions. This course may be used interchangeably for satisfaction of degree requirements for the Criminal justice major (requires completion of two semester hours).

CRJU 391: Comparative Criminal Justice System II, (S) (1). Course examines and compares structural and policy attributes of non-American systems of justice. Specific systems considered vary continuously by semester and academic year and include those outside the Anglo-American and Western traditions. This course may be used interchangeably for satisfaction of degree requirements for the Criminal Justice Major (requires completion of two semester hours).

CRJU 401: Public Policy and Criminal Justice, (F) (3). This course involves close examination of fundamental policy questions arising within the system of criminal justice and involves consideration of the linkages between crime; electoral politics; policies of executive, judicial, legislative, and administrative structures; and the substantive law. This course is an integrative capstone for undergraduate study within the Liberal Education Core and the Criminal Justice program. Available for upper-division elective credit in Political Science. Prerequisite: upper division standing. Cross-listed with PLSC 401.

CRJU 405: The American Founding, (F) (3). The American Founding is an inquiry into the governing principles of the Declaration of Independence and how its transformation culminated in the Constitution of the United States. To understand the modern American political system requires a re-examination of first principles and the relationship between the two fundamental documents of the American republic. Even years only. Cross-listed with PLSC 405.

CRJU 409: Statesmen, Soldiers & Leadership, (F) (3). This course is an inquiry into the nature, purpose, origin, structure, and practical consequences of political and military leadership. Questions concerning the elements of great leadership from perspectives of personal attributes and implementation of policy will be of prime import. Odd years only. Cross-listed with PLSC 409.

CRJU 470: Political Violence, (On Demand) (3). The purpose of this course is to introduce the student to the issues relating to violence as a component of politics. Topics such as terrorism, warfare, and arms proliferation will be analyzed, as well as regional flashpoints such as the Middle East. Cross-listed with PLSC 470. Odd years only.

CRJU 483: Constitutional Law II: National Powers, (S) (Alternates Annually) (3). An overview of the United States Supreme Court's interpretation of Articles I, II, and III of the federal Constitution. These articles divide the powers of the federal government between three ostensibly co-equal branches. The respective branches may only exercise those powers granted to them by the respective Articles. Powers not delegated to one of the branches are reserved to the states. These two constitutional principles - separation of powers and federalism - invariably generate conflicts among the three branches and between the branches and the various states. The Supreme Court's efforts to arbitrate such conflicts are examined through analysis of its decisions and its efforts to interpret the "plain meaning" of the Constitution's language, and to discern the "intent of the founders." Cross-listed with PLSC 483. (Alternates annually with CRJU 486 / PLSC 486.)

CRJU 486: Constitutional Law I: Civil Liberties, (S) (Alternates Annually) (3). The development and interpretation of the Constitution examined through analysis of the decisions of the Supreme Court and secondary sources, focusing on the Bill of Rights and the Fourteenth Amendment. The course serves as an introduction to how our national heritage of civil liberties has been articulated by the Court to form law and legal doctrine over the course of two centuries, including consideration of the areas of privacy, public morality, defendant's rights, and the death penalty. Prerequisites: CRJU 201 and CRJU 205, or permission from instructor. (Alternates annually with CRJU 483 / PLSC 483.) Cross-listed with PLSC 486.

CRJU 495: Independent Study, (On Demand) (1-3). Independent study and/or research on approved topics. Prerequisite: permission from instructor.

DATA 250: Foundations of Data Analytics I, (F) (3). In an increasingly data-driven world, everyone should be able to understand the numbers that govern our lives. Whether or not you want to work as a data analyst, being “data literate” will help you in your chosen field. In this course, you’ll learn the core concepts of inference and data analysis by working with real data. By the end of the term, you’ll be able to analyze large datasets and present your results. This online class has optional live sessions.

Prerequisites: none.

DATA 251: Foundations of Data Analytics II, (S) (3). This course is intended as a continuation of Foundations of Data Analytics I. In this course, you’ll learn how Data Analytics are applied within the workforce. Particular attention will be paid to the role of the Data Scientist or Analyst, machine learning and the applications of Big Data. By the end of the term, you will be able to design and execute a range of data-driven experiments. This online class has optional live sessions. Prerequisites: Foundations of Data Analytics I.

ECON 203: Principles of Macroeconomics, (F, S) (3). This course will introduce the student to macroeconomic theory including a study of the economizing problem, pure and mixed economics systems, demand and supply, the economic functions of government, national income accounting, the business cycle, employment theory, money and banking, and fiscal policy.

ECON 204: Principles of Microeconomics, (F, S) (3). This course will introduce the student to microeconomic theory, including demand and supply analysis, elasticity, the production function, price and output determination, costs of production, pricing and employment of resources, and market structures.

ECON 481: Special Topics in Economics, (On Demand) (3). An advanced course of selected topics of interest in the field of Economics. Prerequisite: Business major/minor with junior or senior standing and 21 credit hours in business courses or permission from instructor.

EDUC 210: Early Involvement Practicum, (F, S) (1). Students are assigned to a school classroom and meet periodically to discuss and generalize their experiences. Fifty (50) hours of field experience is required. Novice Block. To be taken concurrently with EDUC 211 and EDUC 231. Additional fees will apply.

EDUC 211: Early Involvement Seminar, (F, S) (2). A practical course in which students are introduced to the culture of teaching. The course focuses specifically on dispositions and the key aspects of Kentucky's Unbridled Learning Initiative and Kentucky Core Academic Standards. Students set up their web-based electronic student portfolios. Novice Block. To be taken concurrently with EDUC 210 and EDUC 231.

EDUC 231: Schooling in American Culture, (F, S) (3). This course will expose students to the many facets of education, especially teaching. It is designed to help the students make the important decision about a professional career. Students will be guided through the history and philosophy of education, the requirements and responsibilities of the teacher, the nature of the curriculum, an introduction to behavioral theory, and social issues that impact schooling. Fifteen (15) hours of field experience is required. Novice Block. To be taken concurrently with EDUC 210 and EDUC 211.

EDUC 271: Teaching Art in the Elementary School, (F) (3). A studio course involving many kinds of art projects in media suitable to and practicable for elementary grades. Additional course fees will apply.

EDUC 283: Educational Technology, (F, S) (3). This course explores classroom applications of educational technology. Students will examine the integration of educational technology in classroom settings through web- based resources, video case studies, in-class discussions, and field experiences. Students will evaluate and use digital applications and tools in addition to educational web sites and software. The use of technology in designing and implementing various types of assessment (pre-assessment, formative, and summative) will be explored. Emphasis will be placed on the understanding of issues and techniques related to the use of technology in P12 educational settings. This is a hybrid course with face-to-face, online meetings, and assignments.

EDUC 305: Elementary Math for Teachers, (F, S) (3). Utilizing both Kentucky and National Council of Teachers for Mathematics (NCTM) standards, this course will provide a comprehensive overview of mathematical instruction for elementary teachers across the P-6 grade spectrum. Special emphasis is placed on content mastery expectations, knowledge and implementation of pedagogical theories, and differentiated instruction needs for all students as they relate to the success of an elementary teacher. An additional focus for the course is to address mathematic components of the PRAXIS II exam.

EDUC 310: Intermediate Involvement Practicum, (F, S) (1). The second of three public school field experiences during which students spend fifty (50) hours observing and participating in developmentally appropriate classroom teaching activities. Course is to be taken by (a) elementary majors concurrently with EDUC 374, EDUC 470, and SPED 321; (b) middle school majors concurrently with EDUC 375 and SPED 321; and (c) secondary majors concurrently with EDUC 376 and SPED 321. Fifty (50) hours of field experience is required. Intermediate Block. Prerequisite: completion of Novice Block. Additional fees will apply. Corequisite: EDUC 374, EDUC 375, and EDUC 376.

EDUC 318: Teaching Mathematics Elementary School, (F, S) (3). Focuses upon the development of the understanding of the content and professional issues associated with the teaching and learning of mathematics, in the elementary school setting. Emphasized are the content of elementary mathematics, developing an understanding of how children learn, and how to promote that learning by teaching through problem solving, and how to plan for and assess learning on a daily basis. Also included are strategies for incorporating children's literature, technology, and differentiation of instruction to meet the needs of the diverse learners in today's classrooms. Advanced Block. Prerequisites: admission to Teacher Education, completion of Intermediate Block, and EDUC 305.

EDUC 328: Elementary School Social Studies, (F, S) (3). This course focuses on the methods and materials, and the principles and practices, needed to foster intellectual and social growth in primary and elementary school students in the area of social studies. Emphasis will be placed on appropriate and broad social studies content review, highlighting the instructional practices related to geography and history, and other social science disciplines. Discussion of philosophies and terminology, evaluation of methods and materials, and development of a thematic unit will be included. Advanced Block. Prerequisites: admission to Teacher Education and completion of Intermediate Block.

EDUC 338: Teaching Reading in Content Subject, (F, S) (3). This course focuses on the design, planning, and implementation of instruction while recognizing the unique literacy demands of content-area coursework. Emphasis is placed upon comprehension and study strategies, the reading and writing connection, the role of technology in today's classrooms, the importance of differentiated instruction that respects cultural differences, and the needs of the diverse learner. Students participate in in-class microteaching demonstrations, develop a content-area instructional unit, and submit an electronic

portfolio entry as a result of off-site visits to minority classrooms. Twenty-five (25) hours of field experience is required. Advanced Block. Prerequisites: admission to Teacher Education and completion of Intermediate Block.

EDUC 348: Teaching Science in Elementary Grades, (F, S) (3). The students will examine science curriculum materials and activities in terms of Piaget's developmental stages. Topics will be identified that could be taught using experimental, inquiry, or discovery methods. Lesson plans will be developed using each of the three methods and activities constructed. Advanced Block. Prerequisites: admission to Teacher Education, completion of Intermediate Block classes, and completion of science core courses.

EDUC 363: Language Arts Instruction for Elementary & Middle Grades Teachers, (F, S) (3). Utilizing both Kentucky and National Council of Teachers of English (NCTE) standards, this course will provide a comprehensive overview of language arts instruction for elementary and middle grades teachers across the P-8 grade spectrum. Special emphasis of the course is placed on content mastery expectations, knowledge and implementation of pedagogical theories, and differentiated instruction needs for all students.

EDUC 374: Instructional Design & Delivery Elementary School, (F, S) (3). This course focuses on the design elements and delivery mechanisms of curriculum in the classroom. Students will develop competencies in instructional focus and assessment, and the relationship between these concepts. The students will produce a Standards Based Unit of Study. Intermediate Block. Prerequisite: completion of Novice Block. Corequisite: EDUC 310.

EDUC 375: Instructional Design Delivery Middle School, (F, S) (3). This course focuses on the design elements and delivery mechanisms of curriculum in the classroom. Students will develop competencies in instructional focus and assessment and the relationship between these concepts. The students will produce a Standards Based Unit of Study. Intermediate Block. Prerequisite: Novice Block. Corequisite: EDUC 310.

EDUC 376: Instructional Design & Delivery Secondary School, (F, S) (3). A required course for all secondary majors who plan to student teach. This course focuses on the design elements and delivery mechanisms of curriculum in the classroom. Students will develop competencies in instructional focus and assessment, and the relationship between these concepts. The students will produce a Standards Based Unit of Study. Intermediate Block. Prerequisite: Novice Block. Corequisite: EDUC 310.

EDUC 388: Literacy in the Elementary School, (F, S) (3). Education 388 focuses on the principles, techniques, and materials for the teaching of reading in the primary grades, with an emphasis on the methods and materials which provide for developmental and differentiated instruction. Also included will be discussion of various reading philosophies, practices, and terminology; evaluation of instructional methods and materials; independent completion of a word attack tutorial for teachers; development of a literature focus unit; and reading and discussion of children's literature selections. Sixteen (16) hours of field experience is required. Advanced Block. Prerequisites: admission to Teacher Education and completion of Intermediate Block.

EDUC 410: Advanced Involvement Practicum, (F, S) (1). To be taken concurrently with courses in Advanced Block. Specific assignments to be completed in the field will come from Corequisite courses. Fifty (50) hours of field experience is required. Prerequisites: admission to Teacher Education and completion of Intermediate Block. Additional fees will apply. Corequisite: EDUC 437 or EDUC 447.

EDUC 437: Methods & Materials in Middle School, (F, S) (3). This course focuses on instructional strategies and materials needed for releasing the potential for the middle grade student, leading from concrete to abstract learning. The course will include curriculum concepts and designs, innovative activities using hands-on experiences, techniques of writing lesson plans, the development of a unit of work, materials for journal writing, class demonstrations, and evaluation. Prerequisites: admission to Teacher Education and completion of Intermediate Block. Corequisite: EDUC 410.

EDUC 447: Methods and Materials Secondary School, (F, S) (3). Current teaching methods, materials, and innovations in the secondary school, with directed observations, micro-teaching, and curriculum design. Internet, PowerPoint, and Web-page design will also be covered. Prerequisites: admission to Teacher Education and completion of Intermediate Block. Corequisite: EDUC 410.

EDUC 458: Supervised Student Teaching Elementary School, (F, S) (12). Supervised student teaching in the elementary school for a period of 70 instructional days and 525 clinical hours. Students will work closely with a classroom teacher, a college supervisor, and the school principal in a team approach to apply knowledge and skills acquired in their coursework. Prerequisite: passing score on PRAXIS II and PLT Tests. See Requirements for Admission to Student Teaching. Additional course fees will apply. Corequisite: EDUC 488.

EDUC 470: Learning Theories for P12 Educators, (F, S) (3). Students will research, examine, and apply the major historical and modern learning theorists/theories utilized by P12 school districts to advance the cause of student achievement for all learners. Further, students will evaluate, implement, and assess key concepts, models, and strategies related to commonly recognized learning theories including but not limited to: behaviorism, constructivism, cognitivism, and connectivism. A significant focus of the course also centers on preparing Education students to successfully pass the Principals of Teaching and Learning (PLT) exam required for Kentucky teaching licensure.

EDUC 478: Supervised Student Teaching Middle Grades, (F, S) (12). Supervised student teaching in the middle school for a period of 70 instructional days and 525 clinical hours. Students will work closely with two classroom teachers, a college supervisor, and the school principal in a team approach to apply knowledge and skills acquired in their coursework. Prerequisite: passing score on specific PRAXIS II Content Area and PLT Tests. See requirements for Admission to Student Teaching. Additional fees will apply. Corequisite: EDUC 488.

EDUC 488: Professional Interaction in the School, (F, S) (3). This is a senior level course designed to help students understand the predicaments of teaching. Understanding the dynamics of interaction between students and teachers is a particular focus. Professional relationships between teachers, parents, and administrators are also investigated. Classroom management and discipline and how teachers establish positive control of the learning environment are particular concerns. Prerequisite: admission to Student Teaching. Corequisite: EDUC 458, EDUC 478, or EDUC 498.

EDUC 498: Supervised Student Teaching Secondary School, (F, S) (12). Supervised student teaching in the secondary school for a period of 70 instructional days and 525 clinical hours. Students will work closely with a classroom teacher, a college supervisor, and the school principal in a team approach to apply knowledge and skills acquired in their class work. Prerequisite: passing score on specific PRAXIS II Content Area and PLT Tests. See Requirements for Admission to Student Teaching. Additional fees will apply. Corequisite: EDUC 488.

All English courses numbered 200 and above require successful completion of ENGL 111 (First Year Composition I) and ENGL 112 (First Year Composition II).

ENGL 100: Introduction to First Year Composition, (F, S) (3). This course develops skills of writing (including use of documentation), speaking, and critical reading. Tutorials and writing groups are a required component of the course. Students are placed into this course based upon ACT scores in English.

ENGL 111: First Year Composition I, (F, S) (3). Writing papers for a variety of rhetorical situations, as an introduction to academic discourse and reading of short prose pieces, as models and for discussion. Introduces scholarly modes of documentation and academic integrity. Must precede ENGL 112.

ENGL 112: First Year Composition II, (F, S) (3). Continuing the work of ENGL 111, students review mechanics and strengthen rhetorical skills through critical academic writing, culminating in a term project including scholarly research and documentation. Prerequisite: ENGL 111.

ENGL 211: Western Literature in Translation, (F) (3). A survey of non-Anglophone Western literary works and forms from antiquity to the present. May focus on a form, region, or theme.

ENGL 212: Non-Western Literature in Translation, (S) (3). A survey of non-Western literary works and forms from antiquity to the present. May focus on a form, region, or theme.

ENGL 221: Survey of English Literature I, (F) (3). A survey of literature written in English, in Great Britain. Includes the Middle Ages, Renaissance, Restoration, and the Eighteenth Century.

ENGL 222: Survey of English Literature II, (S) (3). A survey of literature written in English in Great Britain. Includes the Romantic, Victorian, Modern, and Contemporary periods.

ENGL 231: Survey of American Literature I, (F) (3). A survey of literature from the Colonial period to the American Civil War.

ENGL 232: Survey of American Literature II, (S) (3). A survey of literature from the Civil War to the present.

ENGL 235: Southern Literature, (F) (3). A survey of the fiction, poetry, and drama of the American South, including such canonical figures as Poe, Faulkner, Toomer, Warren, O'Connor, Dickey, Welty, Williams, McCarthy, and others, as well as emerging or disputed writers. The course may be arranged by period, theme, or genre. Prerequisites: ENGL 111 and ENGL 112, or equivalent courses. Even years only.

ENGL 252: Appalachian Literature, (S) (3). An interdisciplinary study of the literature(s) of Appalachia, focusing on the region's cultural richness and diversity, exploring such texts as novels, poems, films, and recorded song from the perspectives of literary critics and cultural historians. Odd years only.

ENGL 262: African American Literature, (S) (3). An introduction to the oral and written literature of African Americans, from the colonial period through the 20th century. Multiple genres such as the novel, essay, short story, autobiography/slave narrative, poetry, drama, speech/sermon, and songs are studied from the perspectives of literary critic and cultural historian. Even years only.

ENGL 310: Major Author, (F) (3). This course closely examines a single canonical author or a small number of closely connected canonical authors through a variety of critical methods, with the aim of

understanding texts in their historical, social, and cultural contexts. English majors should take this course in the fall of their junior year.

ENGL 316 Creative Nonfiction Writing (F) (3). This course will reinforce the writing competencies learned in previous courses through focusing on the story structure and form of short creative nonfiction. Even years only.

ENGL 317 Screenwriting (S) (3). This course will reinforce the writing competencies learned in previous courses through focusing on the story structure and form of screenplays. Odd years only.

ENGL 318 Fiction Writing (F) (3). This course will reinforce the writing competencies learned in previous courses through focusing on the story structure and form of short fiction. Odd years only.

ENGL 319 Poetry Writing (S) (3). This course will reinforce the writing competencies learned in previous courses through focusing on writing poetry. Even years only.

ENGL 320: Medieval English Literature, (S) (3). A study of major texts of the Middle Ages in England, with special emphasis on generic diversity and development. Even years only.

ENGL 321: Early Modern Literature, (F) (3). A study of major texts in the Early Modern Period (1530-1660), with special emphasis on generic diversity and development. Even years only.

ENGL 322: Restoration/Eighteenth Century Literature, (S) (3). A study of major poetry and prose of 1660-1798, covering Milton, Dryden, Behn, Pope, Swift, Johnson, and their contemporaries. Odd years only.

ENGL 323: Nineteenth Century Literature, (F) (3). Major poetry, fiction, drama, and non-fiction prose of the nineteenth century. Odd years only.

ENGL 327: Theories of Composition & Rhetoric, (F) (3). A practical and historical study of theories of rhetoric and composition, emphasizing their application to writing and the teaching of writing. Even years only.

ENGL 334: Small Group Writing Instruction, (F) (1). The theory and practice of writing, workshops and tutorials.

ENGL 340: Writing in the Disciplines, (S) (3). This course develops students' skills in the preparation of writing proposals, case studies, literature reviews, and other common genres in scientific and technical fields. Even years only.

ENGL 351: The English Novel I, (F) (3). This course offers a study of the early novel in England from 1700-1850. In addition to examining representative works from this period, the class will also trace the historical and cultural contexts which contributed to the emergence and development of this new literary form. Odd years only.

ENGL 352: The English Novel II, (S) (3). The English novel from Dickens through the present. Even years only.

ENGL 371: Texts & Themes, (On Demand) (1). Study of texts (fiction, non-fiction, and/or film) related to an announced topic: for example, Sports and Film, The Hero's Journey, Science Fiction and Society,

Tolkien on Page and Screen, etc. May be taken up to three times for elective credit. Prerequisite: completion of ENGL 111 and ENGL 112.

ENGL 402 Advanced Composition (S) (3). Writing competency is reinforced by further developing what has been learned in previous writing courses, including discussion and practice of the writing process; technology in the writing classroom; and other issues of concern to class members, such as research and documentation, grammatical correctness, and writing for various media. Odd years only.

ENGL 410: Writing and the Environment, (S) (3). We examine the growing field of environmental communication, including the conversations and controversies surrounding ecological issues ranging from Appalachia to distant parts of the planet. Odd years only.

ENGL 415: History of Literary Criticism & Theory, (On Demand) (3). This course provides an overview of various theories of literary interpretation. Approaches will address traditional forms of criticism (Aristotle, Sidney, Coleridge, etc.), as well as new criticism, deconstructionism, Marxist theory, women and gender theory, postcolonial theory, new historicism, and/or other approaches to literary interpretation. Prerequisites: ENGL 111, ENGL 112, and a 200-level literature course.

ENGL 421: History of the English Language, (F) (3). A study of the origins and development of the English language and its grammar from Anglo-Saxon times to the present. Odd years only.

ENGL 427: Directed Writing, (On Demand) (3). A tutorial in the production of public writing for an academic audience. Requires participation in an approved conference (undergraduate or academic) or other academic showcase; submission to an academic journal (undergraduate or professional); or submission to a literary magazine.

ENGL 431: Contemporary American Literature Fiction, (S) (3). A critical and historical study of novels and short fiction, from the nineteen-fifties to the present. Even years only.

ENGL 451: Modern Poetry, (S) (3). A critical and historical study of poetry in English from Whitman and Dickinson, to the present. Even years only.

ENGL 452: American Novel, (S) (3). A critical and historical study of American fiction from its beginnings to the present. Odd years only.

ENGL 471: Shakespeare, (F) (3). A critical approach to selected histories, comedies, and tragedies, focusing on historical context, the plays as cultural phenomena, and human, literary and dramatic qualities. Odd years only.

ENGL 472: Capstone Project, (S) (3). Intensive study of a topic arising out of study in the major. Includes senior research project. Prerequisite: senior status.

ENGL 473: Popular Literature, (On Demand) (3). An examination of a popular genre (mystery, science fiction, fantasy, horror, romance, others) from a historical, critical, or thematic perspective.

ENGL 475: Film, (On Demand) (3). An examination of narrative film from a historical, critical, or thematic perspective. Odd years only.

ENGL 485: Internship: Editing & Publishing, (S) (1). Under the supervision of the editor of an MLA-indexed academic journal, students observe and participate in every stage of publication: calling for papers; preliminary editing; securing and directing peer reviewers; steering revise-and-resubmit; line

editing; and production. Students will also practice publication on the journal's blog. Successful completion of the course includes recognition as an editorial assistant in the masthead of the journal. May be retaken once for credit.

ENGL 495: Independent Study, (On Demand) (3). Intensive supervised work in some phase of literature or composition not otherwise covered in the curriculum. Prerequisites: Twenty-four (24) credit hours in English (ENGL) courses and permission from the School Dean. May be repeated for credit.

ENVS 101: People and the Environment, (On Demand) (3). A multi-disciplinary course in which basic ecological principles are developed and used to show human impact on natural ecosystems. Topics include endangered species, impact of population growth, land use and management problems, and food production and demands.

ENVS 110: Physical Systems of the Environment, (On Demand) (3). A study of the physical environment as it relates to human activities. The emphasis is on the distribution and interaction of environmental variables (weather, land forms, vegetation, soils, and climate).

EXSC 181: Introduction to Kinesiology, (F) (3). This course provides an overview of the field of kinesiology with particular focus on the integrative nature of the discipline, current trends, key concepts of subdisciplines, and the diverse range of professional careers associated with physical activity. It is intended for students entering or exploring a major in exercise science.

EXSC 485: Exercise Science Internship, (F, S, Sum) (3-6) Supervised experience in an exercise science related setting. Students will have the opportunity to put into practice the knowledge and practice skills they have learned in their course work. Students should take this course in their senior year of study. Pre-requisite: permission from the instructor.

GEOG 241: Geography of Appalachia, (F) (3). This course will provide a systematic analysis of the physical, demographic, economic, and cultural characteristics of the Appalachian landscape, with emphasis on the great diversity within the region.

GNSC 105. Physical Science. (F, S) (3). An introduction to the physical sciences: physics, chemistry, and earth sciences. Completion of the core math course is strongly advised before enrollment.

GNSC 106. Physical Science Laboratory. (F, S) (1). Optional laboratory to accompany GNSC 105.

GNSC 385: Internship. (On demand). (1- 3). Supervised field experience at an approved health care site. Students will gain experience about the operation of such facilities. A daily journal is required as well as an end-of-term reflection paper on how the intern experience has influenced the student's career plans. The course will be taken on a credit pass/fail or satisfactory, S or Unsatisfactory, U basis only.

GNSC 471. Science Seminar. (S) (1-2). A lecture/discussion of selected topics of interest, led by faculty members of the School of Health and Natural Sciences, invited speakers, and student participants. May be repeated once; a student can earn a maximum of two credit hours through this course. All natural science majors must take this course at least once. *Prerequisite:* Natural science major with junior or senior standing, or permission from instructor.

GNST 103: College Reading Strategies, (F, S) (3). Focuses on the development of practical, critical, and analytical strategies for reading college-level materials. This course considers tone, purpose, and

rhetorical structures. Placement is based on ACT scores and/or college assessments. Students may also elect to take the course. Offered every semester.

GNST 105: Igniting Higher Order Thinking, (F, S) (3). This course is designed to support the Quality Enhancement Plan student learning goals of critical, creative and metacognitive thinking. Students will study and practice using the elements of critical and logical thinking, the elements of creative thinking, and the tools necessary to evaluate critical thought processes. Students will also examine critical and creative thinking as it is implemented in various academic disciplines and career contexts.

GREK 111: Elementary Greek I, (F, S) (3). A study of Classical and Koine Greek to prepare students for advanced study of Greek philosophy, the New Testament, and early Christian theology.

GREK 112: Elementary Greek II, (F, S) (3). A study of Classical and Koine Greek to prepare students for advanced study of Greek philosophy, the New Testament, and early Christian theology.

GREK 113: Morphology & Syntax in Classical Languages I, (F, S) (1). A study of basic principles of word formation and grammar in Greek and Latin. Each course may be taken concurrently with GREK 111 or GREK 112, or separately.

GREK 114: Morphology & Syntax in Classical Languages II, (F, S) (1). A study of basic principles of word formation and grammar in Greek and Latin. Each course may be taken concurrently with GREK 111 or GREK 112, or separately.

GREK 211: Intermediate Greek—Grammar, (F) (3). A continuation of Greek 112 designed to review grammar through translations of primary texts. Prerequisite: GREK 112.

GREK 213: Intermediate Greek Readings, (F, S) (1). A reading and translation course which may be taken with GREK 211 or separately.

GREK 300: Greek Readings, (S) (3). Translation of classical and Hellenistic Greek texts. Prerequisite: GREK 211.

HBRW 111: Elementary Hebrew I, (On Demand) (3). A study of biblical Hebrew to prepare students for advanced study of the Hebrew Bible.

HIST 110: Roots of Civilization, (F, S) (3). A study of civilizations of the ancient world designed to introduce students to the study of history and allied disciplines such as religious studies and art history. The course includes a brief survey of the rise of the first cities in river valleys of the ancient world and focuses on the development of one or two major civilizations of the ancient world; for example, those of Greece, Rome, India, or China.

HIST 113: Religion and Empire, (F, S) (3). This course examines the role of religion in the maintenance of Roman, Christian, and Islamic empires, with particular attention to religiously inspired art, architecture, and literature. The course begins with an examination of the rise of the Roman Empire and proceeds to examine the Christian transformation of that empire from Constantine through the Middle Ages. The primary focus is “Christendom” in Western Europe, with limited attention to developments in the Byzantine Empire. The rise and spread of Islam is also examined, with special attention given to the interaction between Christian and Muslim civilization. The course ends with examination of forces that challenge the medieval political-religious establishment in Western Europe in the late Middle Ages and Renaissance. Prerequisite: HIST 110 or permission from instructor. May cross-list with HUMN 112.

HIST 211: Topics in Global History, (F, S) (3). A study of such topics in global history as the building and maintenance of empire, colonization and de-colonization, impact of industrialization and secularization on societies around the world, nationalisms and revolutionary movements, and religious and ideological antagonisms (e.g., Islam and the West). The reading and interpretation of primary sources of historical information receives special attention. Course may be taken for credit more than once provided that the topic of the course is different each time it is taken.

HIST 212: Historical Research and Methods, (S) (3). Gathering and criticism of data; bibliographies and aids; problems in historiography, composition analysis, and the final monograph. Regardless of the monograph topic chosen by the student, this course does not count toward either the United States or non-United States requirement within the major. This course must be taken in conjunction with another history course.

HIST 213: Roots of Modernity: Revolution in Politics, Society and Thought, (F, S) (3). This course begins with an examination of the Reformation, Catholic Counter-Reformation, and the religious wars in the late 16th and early 17th centuries. Attention then shifts to the Scientific Revolution and Enlightenment and their impact on society and culture, with particular attention to the rise of revolutionary ideologies and conflicts in England, France, and the Americas. Requirements include papers and oral presentations. Prerequisite: Sophomore status or permission from instructor.

HIST 221: History and Culture of Spain and Portugal, (F) (3). An introduction to the history and culture of Spain and Portugal, which serves as the foundation course for upper-level courses dealing with the history and culture of those regions and Latin America. Even years only.

HIST 223: History of Latin America, (F) (3). Course is an overview of the history of Latin America from the colonial period to the present day. Odd years only.

HIST 231: Topics Late Classic & Medieval History, (S) (3). The course examines the social, political, and cultural developments in Europe during the Middle Ages, with particular attention to interaction between Christian and Islamic civilizations. Possible topics for a course include the transmission and transformation of the Latin intellectual tradition from the late Roman Empire to the Renaissance, the classical intellectual tradition in the Islamic world, the development and spread of monasticism, feudal monarchy, and the papacy, the crusades, and commercial and cultural interaction between Europe and the Near East. The course is designed for students who have already had a survey course on the period. Prerequisite: HUMN 112, HIST 113, or permission from instructor. The course may cross-list with RLGN 331. Even years only.

HIST 235: Kentucky History, (F, S) (Sum) (W) (3). This course examines the complex, contradictory, and ultimately vital history of Kentucky from its frontier beginnings to the present, and its role in shaping larger American society. This course privileges the importance of the local in understanding the specific contexts that shape a given people. Students will explore the ways topics such as race, religion, geography, migration, gender, politics, violence, and power influenced Kentucky's development over time. Ultimately, this course deeply investigates what made Kentuckians, Kentuckians.

HIST 241: History of Britain to 1485, (S) (3). The course covers the history of Britain from the Roman period to the rise of the House of Tudor. The social and political impact of Roman, Anglo-Saxon, Viking, and Normand invasions are examined. Relations with continental Europe and developments in church-state relations as principal focal points. The course may cross-list with RLGN 251. Odd years only.

HIST 242: History of Britain 1485-1832, (F) (3). A study of British history from the Tudor Monarchy to the first half of the 19th century, with emphasis on political and institutional developments, social and cultural developments, and the rise of the British empire. Prerequisite: a previous 200-level course in history or permission from instructor. Even years only.

HIST 301: Readings in U.S. History, (F) (1-3). A course allowing students (History, History/Political Science Majors and History Minors) to explore subjects in history not covered in the regular courses. Prerequisite: HIST 211 and permission from instructor.

HIST 302: Readings in Non-U.S. History, (S) (1-3). A course allowing students (History, History/Political Science Majors and History Minors) to explore subjects in history not covered in the regular courses. Prerequisite: HIST 211 and permission from instructor.

HIST 311: American History to 1848, (S) (3). An examination of colonial society and culture, the Revolution, the Constitution, the early national period, Jacksonian Democracy, and historiography. Prerequisite: a previous 200-level course in history or permission from instructor.

HIST 312: American History from 1848 to 1919, (F) (3). A consideration of the Civil War, Reconstruction, industrialization, Populism, Progressivism, World War I, and historiography. Prerequisite: a previous 200-level course in History or permission from instructor.

HIST 313: Twentieth Century America, (S) (3). Selected topics on the nation's history since 1919, including the 1920s, the Great Depression and New Deal, World War II, the Cold War, the Civil Rights Revolution, and political and social developments since 1945. Prerequisite: a previous 100-level course in History, Religion, Philosophy, or permission from instructor.

HIST 341: History of Britain to 1688, (F) (3). British history from the Roman occupation to the Glorious Revolution with emphasis on the development of the English people and state. Prerequisite: a previous 200-level course in History or permission from instructor. Odd years only.

HIST 342: History of Britain since 1688, (F) (3). A study of British history from the Glorious Revolution to the present with emphasis on political and institutional development, and the role of Britain in the world, including the rise and decline of the British empire. Prerequisite: a previous 200-level course in History or permission from instructor. Even years only.

HIST 408: American Presidency, (F) (3). Analysis of the institution of the presidency, its functions, formal and informal relationships, and its limitations within the American political system. Cross-lists with PLSC 408. Odd years only.

HIST 409: American Religion & Society, (3). This course examines the rich and vital religious landscape of the United States, and its contribution to shaping larger society. Students will explore religious life in America through the engagement of primary and secondary texts. By studying the expansion of religious life in the nation, moreover, students will develop a deeper understanding of how particular ideas underpinning American society have continuously informed and reshaped religious expression. Specific attention will be given to the way religious ideas, organizations, and people have influenced laws, social movements, culture, and the physical landscape.

HIST 413: Twentieth Century America, (S) (3). Selected topics on the nation's history since 1919, including the 1920s, the Great Depression and New Deal, World War II, the Cold War, the Civil Rights

Revolution, and political and social developments since 1945. Prerequisites: a previous 200-level course in history or permission from instructor.

HIST 431: American Revolutionary Era 1763-1789, (S) (3). A study of the causes, events, and consequences of the American Revolution from the end of the Seven Years War through the ratification of the Constitution. Historiographical controversies will be emphasized. Prerequisites: HIST 311 or permission from instructor. Odd years only.

HIST 433: History of Appalachia, (S) (3). A survey of the region from settlement to the present, with emphasis on the period since the Civil War. The course examines the diversity of historical development within the region, and the paradox of relative isolation along with integrating aspects of industrialization and modernization. Odd years only.

HIST 441: Civil War & Reconstruction 1848-1877, (F) (3). A study of the events, causes, and consequences of the American Civil War. Attention is paid to primary sources, and especially the analysis of conflicting scholarly interpretations. Prerequisite: History 312 or permission from instructor. Odd years only.

HIST 443: Modern Britain, (S) (3). A study of modern British history from the early 19th century to the era of New Labour. Emphasis will be given to the impact of the world wars, the decline of British power, the rise of the welfare state, and the role of Britain in Europe. Prerequisite: a previous 200-level course in History or permission from instructor. Even years only.

HIST 446: History of Russia, (On Demand) (3). Russian history since 1689. Survey of the political and social changes in Russia from the time of Peter the Great to the present, including an extensive review of the origins and development of the modern Soviet state. Prerequisite: a previous 200-level course in History or permission from instructor.

HIST 451: Topics in Early European History, (F) (3). A study of developments in European politics, society, and culture in the period of 1350 to 1650. Prerequisite: a previous 200-level course in history or permission from instructor. Students may take the class for credit more than once as the topic changes. Odd years only. Cross-lists with RLG 452.

HIST 452: Topics in Modern European History, (S) (3). A study of the political, social, and cultural history of Europe from the Congress of Vienna to the contemporary era of European integration. Possible topics are the process of modernization, nationalism, secularization, the world wars, and the course of European history since 1945. Students may take the class for credit more than once as the topic changes. Prerequisite: a previous 200-level course in History or permission from instructor.

HIST 461: Islamic Religion & Civilization, (S) (3). The political and religious history of the Middle East from the beginnings of Islam to the beginning of the modern era. Particular attention is given to interaction with Byzantine and medieval Christian civilizations. Prerequisite: a previous 200-level course in History or permission from instructor. Even years only. Cross-lists with RLG 462.

HIST 474: Topics in Latin American History, (S) (3). An in-depth examination of topics and issues in the study of Latin American history. Prerequisite: HIST 223. Odd years only.

HIST 475: Special Topics: American History, (F) (3). Topics that might be covered include, but are not limited to such titles as Colonial America, the Early National Period, Industrial America in the Gilded Age, the Progressive Era and World War I, the Period between the World Wars, World War II, the

United States since 1945, the Vietnam War, American Economic History, American Constitutional History, African-American History, and the American South. Prerequisite: a previous 200-level History course or permission from instructor. Even years only.

HIST 476: Special Topics in World History, (S) (3). An intense, analytic study of a major problem or topic in world history. May be repeated for credit as long as the topic is different. Prerequisite: a previous 200-level History course or permission from instructor. Even years only.

HIST 495: Independent Study: U. S. History, (F, S) (Sum) (1-3). Independent study and/or research on approved topics. Prerequisite: permission from instructor.

HLSC 110: Medical Terminology, (3) (Online) This course covers medical terminology, symbols and abbreviations, and the application of this new language in the field of health care. While terms are covered as they relate to body structure and function, the main focus is on medical vocabulary and being able to construct terms using word parts such as roots, suffixes, and prefixes.

HMPF 435: Social Psychology of Sport & Human Performance, (F) (3). An in-depth look at the psychological, as well as some social concerns, of sport and human performance. Topics include motivation, psyching up, team cohesion, exercise adherence, mental imagery, visualization, and exercise and its ability to postpone the effects of aging. The objective of the course is to enable students to comprehend and apply available information to enhance their effectiveness as teachers and coaches.

HMPF 441: Exercise Assessment & Prescription, (S) (3). This course covers laboratory and field tests used for assessing physical fitness components as well as principles of exercise prescription. Test results are used in developing individualized exercise prescriptions to improve cardiorespiratory fitness, muscular fitness, body weight and body composition, flexibility, and balance. Prerequisites: PHED 410 or permission from instructor. Fee: \$25 consumable items fee required.

HMPF 485: Human Performance Internship, (F, S) (Sum) (3). Supervised experience in fitness and wellness promotion in a related setting. Students will have the opportunity to put into practice the knowledge and practical skills they have learned in their class work. Students should take this course in the final year of their studies.

HUMN 112: Religion and Empire, (F, S) (3). As part of the Humanities sequence and the sequel to HIST 110, this course examines the role of religion in the maintenance of Roman, Christian, and Islamic empires, with particular attention to religiously inspired art, architecture, and literature. The course begins with an examination of the rise of the Roman Empire and proceeds to examine the Christian transformation of that empire from Constantine through the Middle Ages. The primary focus is “Christendom” in Western Europe, with limited attention to developments in the Byzantine Empire. The rise and spread of Islam are also examined, with special attention given to the interaction between Christian and Muslim civilization. The course ends with examination of forces that challenge the medieval political-religious establishment in Western Europe in the late Middle Ages and Renaissance. Prerequisite: HIST 110.

HUMN 151: Readings I, (F) (1). Focusing on primary texts in translation as well as on contemporary secondary texts, HUMN 151 enriches students’ awareness and understanding on the ideas and aesthetics that help shape the world. Corequisites: ENGL 101 and HIST 110, or permission from instructor.

HUMN 152: Readings II, (S) (1). Focusing on primary texts in English and in translation as well as on contemporary secondary texts, HUMN 152 enriches students' awareness and understanding of the ideas and aesthetics that shaped the world from Ancient to Early Modern times. Prerequisites: ENGL 101,

HIST 110, HUMN 151 or equivalent transfer credit. Corequisites: ENGL 102 and HUMN 112, or permission from instructor.

HUMN 211: Roots of Modernity: Revolutions in Literature, (F, S) (3). As part of the Humanities sequence, this course examines Western Culture from the Enlightenment to the 20th Century. This course focuses on the development of literature and the major trends in art and music. This course includes student papers and presentations. Prerequisite: ENGL 102.

HUMN 213: Roots of Modernity: Revolutions in Politics, Society, and Thought, (F, S) (3). This interdisciplinary course examines revolutionary developments in society and culture that mark the beginning of the modern world in Europe and the Americas. The course begins with examination of major developments in Europe in the 16th and early 17th century—Reformation and Counter-Reformation, the ensuing religious wars, and the rise of absolutism—and then focuses on political revolutions in Europe and the Americas in the 17th, 18th, and early 19th centuries. Attention is given to revolutionary and counter-revolutionary ideologies and their various cultural forms of expression. Possible related topics include: Scientific Revolution and Enlightenment, mass society and popular religion, secularization and civil religion, and nationalism. Requirements include papers and oral presentations. Prerequisites: ENGL 102 and HUMN 112. Corequisite: HUMN 211.

HUMN 214: The Modern World in Crisis, (F, S) (3). As a final part of the Humanities sequence, this interdisciplinary course focuses on significant developments in Western society and culture in the 20th Century. Prerequisites: HUMN 211 and HUMN 213 or 27 hours of transfer credit in the humanities, including courses in composition, speech, modern history, modern literature, fine arts, and modern religion or philosophy.

HUMN 215: Philosophy & the Crisis of Modernity, (S) (3). As the final part of the Humanities sequence, this interdisciplinary course focuses on significant developments in Western society and culture in the 20th Century. Attention is given to developments in philosophy in the 20th century, including but not limited to pragmatism, philosophy of language, and existentialism. Prerequisites: HUMN 211 and HUMN 213 or 27 hours of transfer credit in the humanities, including courses in composition, speech, modern history, modern literature, fine arts, and modern religion or philosophy. This course may cross-list with PHIL 215.

HUMN 251: Readings 3, (F) (1). Focusing on primary texts in English and in translation as well as on contemporary secondary texts, HUMN 251 enriches students' awareness and understanding of the ideas and aesthetics that shaped the world from the Enlightenment to the beginnings of modernity. Prerequisites: ENGL 102, HUMN 112, or equivalent transfer credit. Corequisites: HUMN 211 and HUMN 213, or permission from instructor.

HUMN 252: Readings 4, (S) (1). Focusing on primary texts in English and in translation as well as on contemporary secondary texts, HUMN 252 focuses on an event, author, or idea introduced in a designated section of HUMN 214. Prerequisites: HUMN 211, HUMN 213, or equivalent transfer credit. Corequisite: HUMN 214 or permission from instructor.

HUMN 351: Readings 5, (F) (1). A seminar in recent fiction and nonfiction of significant merit. Prerequisite: HUMN 252 or permission from instructor.

HUMN 352: Readings 6, (S) (1). A seminar in recent fiction and nonfiction of significant merit.
Corequisite: junior standing or permission from instructor.

HUMN 477: Philosophy of Life, (S) (3). The senior Capstone seminar for History and Religious Studies majors (but any student may take the course).
Interdisciplinary Social Sciences

INSS 101: Introduction to Social Sciences, (F, S) (3). This course is designed to familiarize students with the questions asked by disciplines of the Social Sciences. Thematic in approach, this course will examine common questions as well as the requisite theories and approaches employed by sociologists, anthropologists, political scientists, cultural geographers, psychologists, Appalachian Studies scholars, criminal justice specialists, and economists.

INSS 103: Cultural Geography, (S) (3). Emphasis on the concepts of place, region, spatial interaction, landscape interpretation, and landscape evolution. Deals with the graphic media of geography - maps, graphs, and scale models. Case studies illustrate geographic principles to familiarize students with various parts of the world. For future teachers as well as students of the natural and social sciences.

LAWS 101: Introduction to Law Enforcement, (F) (3). The modern study of law enforcement encompasses a wide range of topics requiring an understanding of both theoretical concepts and applied practices. This course is intended to utilize both perspectives to provide students with a broad and well-structured foundation for further studies in law enforcement. Topics include (but are not necessarily limited to) law enforcement history; an overview of local, state, and federal agencies; the functions of modern law enforcement organizations; recent trends in criminal behaviors; homeland security; and policing ethics.

LAWS 200: Community Policing, (F) (3). This course provides students with a broad perspective on the evolving relationship between policing agencies and citizens. This relationship forms a tentative framework for the resolution of issues arising between the two. As both a philosophy and an organizational strategy, community policing expands the scope of law enforcement activity to encompass partnerships with the community which facilitate mutual support and participation of all concerned parties. Coverage includes consideration of and strategies to address the current climate of suspicion associated with racial profiling and threats posed by terrorism, both of which have eroded the community trust which is indispensable to effective policing.

LAWS 205: Patrol Operations, (S) (3). This course introduces students to a range of topics relating to police operations. Coverage includes basic concepts of patrolling, patrol techniques, police communications, vehicle operations, controlled substances, field interviews, arrests, officer safety, racial profiling, police force staffing and deployment, and crowd and riot control. A segment is also devoted to the future of law enforcement.

LAWS 206: Topics in Law Enforcement, (3). Provides in-depth coverage of topics not included in the regular Law Enforcement Studies curriculum.

LAWS 210: Traffic Enforcement, (S) (3). This course acquaints students with basic elements in traffic enforcement practice. Topics include the history of traffic laws and future trends, impaired driving, tolerances and officer discretion, low and high risk stop tactics, one-officer and multi-unit response protocols, approach strategies, issues and tactics in pursuit driving, traffic point control, and hit and run and crash related investigations.

LAWS 220: Substantive Law for Enforcement Professionals, (Online). This course provides students with a historical understanding of criminal law, an overview of general legal principles including possible defense to a criminal charge, and an awareness of the fundamental nature of law.

LAWS 230: Constitutional Procedure for Enforcement Professionals, (Online). This course focuses on the constitutional rights of criminal defendants as interpreted by the U.S. Supreme Court. Students discuss Supreme Court decisions and identify their significance for the justice system.

LAWS 240: Homeland Security, (Online). This course addresses the functions of homeland security as they relate to government, industry, and the community. The key functions of threat prevention, crisis response, and operations recovery are addressed from a variety of perspectives, given that homeland security is a responsibility shared by government agencies, the private sector, and individuals, and encompasses a broad spectrum of professional career positions throughout our society. This course provides an overview of the elements involved in the homeland security function, as well as the challenges critical infrastructure managers in government and industry can and will face maintaining mission operations and staff accountability in the midst of multiple overlapping roles and responsibilities in our rapidly changing world.

LAWS 300: The Criminal Courts, (Online). This course provides students with an overview of the criminal justice system and its processes. It examines the courtroom work group, the trial process, and challenges to the process. It also provides an overview of the juvenile court system.

LAWS 301: The Law of Evidence, (F) (3). This course provides an introduction to the law of evidence. Coverage includes trial procedures, the exclusionary rule, relevance, classification of evidence, burdens of production and proof, standards of proof, demonstrative evidence, presumptions, the vagaries of eyewitnesses, privileges, admissibility, authentication, hearsay, impeachment, and expert testimony.

LAWS 302: Methods & Problems of Investigation, (3). The course introduces the student to the fundamentals of police science investigation. An overview of the current problems that law enforcement investigators face will be addressed. Also, a comparative analysis of different agencies will be outlined. Cross-listed with CRJU 302.

LAWS 303: Criminal Investigation for Enforcement Professionals, (Online). This course teaches students the fundamentals of criminal investigation by examining the processes involved in identifying and arresting criminal suspects, identifying the types of crimes and offenses, and in preparing for court.

LAWS 305: Juvenile Justice, (Online). This course gives students an overview of American juvenile justice, in terms of both system and practice. It examines the juvenile offender, causes of juvenile crime, the juvenile court system, and juveniles in the adult court system. This course also looks at institutionalization, rehabilitation, the treatment of juveniles, and the future of juvenile justice in America.

LAWS 307: Criminal Justice Administration, (3). A study of the administrative principles and management practices of criminal justice organizations including police agencies, courts, and correctional institutions. Cross-listed with PLSC 307.

LAWS 310: Corrections, (Online). This course provides an overview of the field of corrections. It reviews prisons and jails, correctional policies, agencies, prison life, and challenges facing corrections.

LAWS 320: Probation & Parole, (Online). This course focuses on adult and juvenile probation, parole, and related institutions.

LAWS 325: Interviewing & Interrogation, (Online). This course explores policing techniques and tactics used to combat and prevent crime. Emphasis is placed on the knowledge and working skills involved in the art of interviewing and interrogating witnesses and suspects, and the relevant legal parameters that must be followed during field procedures.

LAWS 381: Special Topics in Law Enforcement, (F) (On Demand) (3). A study of selected topics of interest within the discipline of law enforcement. May be repeated for credit as the topic varies. Prerequisite: vary depending on course topic or permission from instructor.

LAWS 400: Criminal Justice Ethics, (Online). This course looks at the ethical dilemmas and professional problems faced by criminal justice personnel. Students review various ethical perspectives and discuss the practical applicability of ethical ideals.

LAWS 405: Victimology, (Online). This course examines the causes of victimization and looks at theories associated with violent victimization. It analyzes the offender-victim relationship and presents ideas on preventing violence and responding to victimization.

LAWS 410: Criminology, (Online). This course explores policing techniques and tactics used to combat and prevent crime. Emphasis is placed on the knowledge and working skills involved in the art of interviewing and interrogating witnesses and suspects, and the relevant legal parameters that must be followed during field procedures.

LAWS 481: Special Topics: Law Enforcement, (Online). A topics course that explores a wide range of possible topics like, but not limited to, comparative police systems, women in policing, the issue of excessive force, and many more.

MATH 110: Topics in Contemporary Mathematics, (F, S) (3). Selected topics from consumer mathematics, set theory, counting methods, probability, statistics, systems of linear equations, graphs and solutions of linear and quadratic equations using graphical methods. Modeling and problem-solving techniques will be illustrated to give students an understanding of the nature and applications of mathematics. Designed as a terminal course for the non-math or science major and serves as a prerequisite for MATH 230.

MATH 131: College Algebra, (F, S, Sum) (3). This course contains topics selected from the following: applications of linear and quadratic equations; solving inequalities including quadratic inequalities; graphing equations; graphs of functions; combining functions and finding inverse functions; exponential and logarithmic functions; polynomial functions; and systems of equations.

MATH 133: Trigonometry and Analytic Geometry, (F) (3). Right triangle ratios, trigonometric functions, graphing trigonometric functions, identities, inverse trigonometric functions, laws of Sines and Cosines, polar coordinates and complex numbers, and analytic geometry.

MATH 230: Elementary Probability & Statistics, (F, S) (3). Descriptive statistics, probability, random variables, variance and standard deviation, various probability distributions, estimation and hypothesis testing, chi-square distribution, t-tests, regression, and correlation. Goals: (1) to understand the basic concepts used in probability and statistics; (2) to equip students for applying the concepts in appropriate real-life situations; (3) to be able to analyze data presented in graphical and numerical forms; and (4) to

enable students to solve typical problems in statistical inference and hypothesis. Prerequisite: MATH 110 or permission from instructor.

MATH 241: Differential Calculus & Analytic Geometry, (S) (4). Review of algebra, limits, the derivative, differentiation of algebraic and trigonometric functions, applications of the derivative, extrema, and the antiderivative. Prerequisite: MATH 133 or permission from instructor.

MATH 242: Intermediate Calculus & Analytic Geometry, (F) (4). Course contains the integral, applications of the integral, logarithmic and exponential functions, trigonometric functions, hyperbolic functions, techniques of integration, L'Hospital's Rule and indeterminate forms, and improper integrals. Prerequisite: MATH 241.

MATH 243: Multivariate Calculus & Analytic Geometry, (S) (4). Topics selected from polar coordinates, vectors, solid analytic geometry, partial differentiation, multiple integration, infinite series, and differential equations. Prerequisite: MATH 242.

MATH 301: Principles of Geometry, (F) (3). Mathematical Proof: conjunctions, disjunction, implications, and truth tables. Proofs using triangles, polygons, and circles; transformations, area, and space geometry. Prerequisites: MATH 131 or MATH 133.

MATH 321: Discrete Mathematics, (S) (3). Logic, methods of proof, sets, relations, functions, equivalences, combinatorics, induction, recursion, and elementary number theory. Prerequisite: MATH 241 or permission from instructor. Prerequisite to MATH 332, 342, 402, 403, and 433.

MATH 331: Introduction to Linear Algebra, (F, odd years or on demand) (3). Vector algebra in Euclidean spaces, lines and planes in space, matrices and linear equations, and abstract vector spaces. Prerequisite: MATH 131 or permission from instructor.

MATH 332: Linear Algebra, (S, on demand) (3). Vector spaces, subspaces, linear independence, linear transformations, determinants, inner product spaces, orthogonality, and unitary transformations. Prerequisite: MATH 331.

MATH 341: Differential Equations I, (F, even years or on demand) (3). Differential equations of first order including basic theory, separation of variables, homogeneous systems, exactness, change of variables, and modeling. Prerequisites: MATH 242 and MATH 321.

MATH 342: Differential Equations II, (On demand) (S) (3). Differential equations of first order and higher degree; differential operators and linear differential equations; reduction of order; and applications. Prerequisites: MATH 321 and MATH 341.

MATH 372: Probability & Math Statistics, (F, On demand) (3). Theoretical probability using point set approach, probability as a frequency ratio; probability for finite sample spaces; conditional probability; joint and continuous distributions, binomial distribution; Baye's theorem; statistical applications of probability; theory of sampling and variance. Prerequisite or Corequisite: MATH 242.

MATH 402: Functions of a Complex Variable, (On demand) (3). Complex numbers, analytic functions, and elementary functions of a complex variable. Cauchy's formula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping, and physical applications. Prerequisites: MATH 243 and MATH 321.

MATH 403: Introduction to Analysis, (S, On demand) (3). Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theorems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinite series, power series, and improper integrals with parameter. Prerequisite: MATH 243 and MATH 321.

MATH 433: Introduction to Abstract Algebra, (S, On demand) (3). An introduction to abstract algebra selecting topics from rings, ideals, quotient rings, isomorphic theorems, groups, and subgroups. Prerequisite: MATH 321.

MGMT 205: Forecasting and Logistics, (F, S) (3). Have you ever wondered how that Amazon package arrived at your door so quickly? Supply chain management is the process by which organizations get us the products we consume, and companies need talented employees to help optimize their supply chain. This course will teach you how to use forecasting techniques to match supply and demand, and how to develop logistics networks that help minimize costs and deliver top customer service. This online class has optional live sessions. Prerequisites: none.

MGMT 210: Sourcing and Operations, (F, S) (3). In today's modern economy, something as simple as a razor might be manufactured in multiple countries with each part coming from a different supplier. This course will teach you how businesses manage this increasing complexity behind the scenes through efficient sourcing of suppliers and operations. You will have the opportunity to apply this knowledge by conducting a real-world case study of a product of your choosing. This online class has optional live sessions. Prerequisites: MGMT 205.

MGMT 352: Principles of Management, (F, S) (3). This course introduces management and leadership as a functional area of business, including the development of organizational plans, policies and procedures, and provides exposure to basic theoretical developments in management and leadership thought. Research and theoretical analysis associated with management activities of an organization in the global and ethical environments will be studied. Management and leadership analysis will be presented in written and oral communication media. Prerequisite: BUAD 151 or permission from instructor.

MGMT 356: Supply Chain Management Technologies, (F) (3). This course covers the major relevant supply chain technologies and systems. In this course you'll survey the systems that enable the supply chain in best-in-class supply chain organizations. Understanding of how information flows throughout the supply chain is critical to managing a supply chain and is the main focus in this course. By the end of this course, you will have gained a basic understanding of how supply chain systems work and how they make the supply chain more efficient and effective. This online class has optional live sessions. Prerequisites: MGMT 205, MGMT 210.

MGMT 362: Supply Chain in Action, (S) (3). Everything from the best concert you saw to your Covid-19 vaccine relies on the existence of effective supply chains. In this course, you'll learn about the application of supply chain systems to vital real-world functions. By the end of this class, you'll have a much better understanding of why supply chain management is vitally important, how it intersects with business, national and global interest, and how supply chains literally save the world. This online class has optional live sessions. Prerequisites: None

MGMT 372: Human Resource Management, (F) (3). Using a system-process model, this course discusses the various subsystems (recruitment, selection, compensation, task specification, etc.) which fall under the responsibility of the HRM function. The subsystems are designed to provide for the efficient and effective utilization of human resources in business concerns. Prerequisite: MGMT 352.

MGMT 374: Operations Management, (S) (3). This course utilizes the systems approach to study quality, process, capacity, inventory, and workforce to analyze and solve both production and service enterprise problems. Topics include product management and control, process flow analysis, environment layout, forecasting, materials requirements planning, and performance improvement. Prerequisite: MGMT 352.

MGMT 400: Organizational Behavior & Team Dynamics, (F) (3). This course responds to the increasing need for cooperative skills in projects, concurrent design and engineering, interdepartmental committees, quality circles, self-managed work teams, and relationship selling. Areas to be covered include small group dynamics; team building; cohesiveness; trust; power; role constraints; facilitative communication; and conflict resolution. Teams will perform in simulated work environments and analyze cases. Prerequisite: MGMT 352.

MGMT 425: Supply Chain Management Practicum, (F, S) (3) This capstone course—built in collaboration with corporate advisors—is the culmination of your work as a student of supply chain management. In this course you'll be tasked with creating a series of solutions to actual problems faced by a real-world company in delivering their product to consumers. By the end of this course, you will have built experience in solving real-world supply chain problems and seeing how your solutions compare to the professionals. This online class has optional live sessions. Prerequisites: MGMT 205, MGMT 210.

MKTG 321: Principles of Marketing, (F, S, Sum) (3). This course introduces marketing as a functional area of business. It discusses the movement of goods and services from producer to consumer while examining the elements of the marketing mix (product, price, place, and promotion). The global, ethical, and legal issues found in the marketing environment will also be studied. Prerequisite: BUAD 151.

MKTG 322: Consumer Behavior, (F, S) (3). A study of the factors and principles that govern behavior and decision-making patterns in the consumer marketplace. Students will study behavior that consumers display in searching for, purchasing, using, evaluating, and disposing of products, services and ideas. Prerequisite: MKTG 321. Even years only.

MKTG 370: Advertising, (F) (3). This course provides an overview of the social, economic, and marketing environment in which advertising functions. This course will provide an in-depth coverage of advertising activities as they relate to consumer-driven mass media marketing activities. The course will focus on advertising planning and management, as well as media strategies available to organizations. Prerequisite: MKTG 321 or permission from instructor.

MKTG 372: Public Relations, (F, S, Sum) (3). This course provides a broad understanding of the various elements of an integrated marketing communications program, with a concentration on the role of public relations. Prerequisite: MKTG 321 or permission from instructor.

MKTG 374: Multinational Marketing Strategies, (S) (3). This course provides students with an understanding of international and multinational marketing strategies. In the course, students will discuss the movement of goods and services from producer to consumer in today's global marketplace, while examining the elements of the marketing mix (product, price, place, and promotion). The global, ethical, and legal issues found in the international marketing environment will also be studied. Prerequisites: MKTG 321, BUAD 151. Odd years only.

MKTG 378: Sales Management, (F) (3). This course is designed to familiarize students with the principles, concepts, and terminology of personal selling, as well as planning and implementation of personal selling activities. Students will learn the importance of understanding the product, the art of persuasion, how to develop a sales presentation, and how to overcome objections and close a sale. Students will also focus on management of the sales force from recruiting and training to compensation issues. Prerequisite: MKTG 321.

MKTG 400: Marketing Management, (S) (3). This is the Capstone course for the marketing major. It examines the marketing management process and the role it plays as a bridge between buyers and sellers. The role of marketing managers as they develop, price, distribute, and promote goods and services is discussed. The use of marketing to solve business problems and achieve strategic goals is emphasized. Prerequisites: MKTG 321, MGMT 352.

MKTG 421: Business Logistics, (F) (3). A study of the broad field of logistics. A major emphasis will be the nature of distribution and handling of materials in domestic and international markets. A systems approach to transportation, warehousing, material handling, packaging, customer service, and procurement will be studied, as it impacts the basic functions of business. Prerequisite: MKTG 321.

MKTG 450: Brand Management, (F, Sum) (3). Branding is a fundamental element of competitive marketing strategy. This course addresses the importance of branding and provides strategies and theories for building, leveraging, and defending strong brands. Other topics include the current opportunities and challenges brand managers face.

MKTG 481: Special Topics in Marketing, (S) (3). Investigation of selected topics of importance to the marketing of goods, services, and ideas. Students will study rapidly changing areas of marketing which are not part of the regular curriculum. Prerequisites: MKTG 321 or permission from instructor.

MKTG 485: Marketing Internship, (F, S) (1-6). Supervised practical field experience at approved business site is combined with an academic component to strengthen the student's theoretical background. To be considered for a placement, the student has attained junior or senior standing with 15 hours of completed Union College Department of Business courses, a Department of Business GPA of 3.0, permission from the Marketing instructor, and approval from School Dean. Students work 40 hours for each hour of credit and may earn up to a maximum of six (6) credit hours for successful performance. Course will be taken on a credit/fail basis only.

MUSC 101: Applied Music, (F, S) (1). Applied lesson for music majors and minors. Taken as an elective requires permission from instructor.

MUSC 102: Applied Music, (F, S) (1). Applied lesson for music majors and minors. Taken as an elective requires permission from instructor. Prerequisite: MUSC 101.

MUSC 121: Introduction to Music, (F, S) (3). A historical approach to music appreciation focusing on period and style. Extensive listening to music literature.

MUSC 152: Union College Singers, (F, S) (0-1). A concert choir performing a varied repertory. No audition required. May be repeated for credit.

MUSC 159: Union Harmony, (F, S) (0-1). A select vocal ensemble composed of a small number of singers performing varied repertory. Open by audition. May be repeated for credit.

MUSC 167: Bulldog Band, (F) (0-1). The Union College Bulldog Band performs at home football games, most home basketball games, and other community events. No audition necessary, although a meeting with the band instructor to assess skill level is encouraged. May be repeated for credit.

MUSC 168: Concert Band, (S) (0-1). Concert band performing a varied repertory. Selected music will be based on instrumentation. No audition necessary, although a meeting with the band instructor to assess skill level is encouraged. May be repeated for credit.

MUSC 201: Applied Music, (F, S) (1). Applied lesson for music majors and minors. Taken as an elective requires permission from instructor. Prerequisite: MUSC 102.

MUSC 202: Applied Music, (F, S) (1). Applied lesson for music majors and minors. Taken as an elective requires permission from instructor. Prerequisite: MUSC 201.

MUSC 265: Theory/Musicianship I, (F) (3). A study of the elements of music theory. Beginning sight reading (pitch and rhythm) and an introduction to conducting (basic patterns) and the piano (melody). Even years only.

MUSC 266: Theory/Musicianship II, (S) (3). A continuation of MUSC 265 to include a more in-depth study of the elements of music theory. Intermediate sight reading (pitch and rhythm) and continued study of conducting (patterns and expressive body language) and the piano (melody and harmony). Prerequisite: MUSC 265. Even years only.

MUSC 301: Applied Music, (F, S) (1). Applied lesson for music majors and minors. Taken as an elective requires permission from instructor. Prerequisite: MUSC 202.

MUSC 302: Applied Music, (F, S) (1). Applied lesson for music majors and minors. Taken as an elective requires permission from instructor. Prerequisite: MUSC 301.

MUSC 331: Choral Literature/Conducting, (On Demand) (3). A study of conducting patterns/gestures, rehearsal techniques, and score analysis. Prerequisite: MUSC 265 and MUSC 266, or permission from instructor.

MUSC 345: Theory/Musicianship III, (F) (3). This course is a continuation of MUSC 266: Theory/Musicianship II. It will cover triads in first inversion, second inversion, non-chord tones 2, diatonic seventh chords, aural skills (sight-singing of melodies and rhythms), and keyboard (left hand chords with right hand melody). Prerequisites: MUSC 265 and MUSC 266. Odd years only.

MUSC 353: Blues, Jazz, & Rock N Roll, (F, S) (Sum) (W) (On Demand) (3). This course takes a historical approach to the roots and development of blues, jazz, and rock n roll focusing on style, performance, and performers. Extensive listening to music of the time period is an integral part of this course. No prerequisite required nor is formal knowledge of music necessary.

MUSC 373: Elementary School Music, (F) (3). Teaching music in the elementary school: procedures, techniques, materials, and equipment. Prerequisite: MUSC 121 or permission from instructor.

MUSC 417: Recital (Capstone), (F) (On Demand) (3). Serves as the capstone for Bachelor of Arts in Music. In this course, the student will receive one 30-minute private lesson a week, culminating in a 30-minute recital of appropriate literature for his/her given instrument or voice. A minimum of 5-7 hours of rehearsal each week is expected outside of the weekly lesson. The music is memorized (vocal and piano)

but is typically not memorized for other instruments. Formatting the printed program, preparing translations (voice), passing a pre-recital jury, attending all pre-jury rehearsals and dress rehearsals is required. Music minors may take MUSC 417 with permission from instructor. Prerequisites: MUSC 101, MUSC 102, MUSC 201, MUSC 202, MUSC 301, and MUSC 302. MUSC 302 may be taken in the same semester as MUSC 417, with permission from instructor.

MUSC 421: Music before 1750, (F) (3). A study of representative music, composers, and genres. Antiquity to 1750. Odd years only.

MUSC 422: Music after 1750, (S) (3). A study of representative music, composers, and genres. Classical period to the present day. Prerequisite: MUSC 421. Odd years only.

MUSC 495: Independent Study, (On Demand) (2-3). Independent study and/or research on approved topics. Prerequisite: permission from student's major instructor. May be repeated for credit.

Prelicensure: All NURS 300 and NURS 400 courses (except NURS 100, NURS 101, & NURS 301) require admission to the nursing program to enroll. Pre-licensure nursing courses must be taken in sequence. Any exceptions require the approval of the School Dean.

NURS 100: Nursing Assistant Skills: Medicaid Nurse Aide, (3). This course is designed to provide knowledge and skills for nurse aides to assume the role and responsibility required in long-term care. The focus of this course is communication, infection control, safety, resident rights, and basic nursing skills. **Course offered as necessary-Not listed on Curriculum Plan.**

NURS 101: Introduction to Professional Nursing, (F, S) (1). Introduces essential competencies for success in the nursing program and for professional nursing practice.

NURS 300: The Professional Role, (S) (**Online RN to BSN only**) (3). An examination of the nursing profession, including the nurse's role in health care, standards of practice, and the future of the profession.

NURS 301: Foundations Professional Nursing Practice, (S) (4). This course is designed to introduce the student to the foundational knowledge, theories, and skills that are integral to professional nursing. The course will focus on beginning clinical reasoning to meet the needs of patients. Corequisite: BIOL 235.

NURS 302: Foundations Professional Nursing Practice Clinical, (F) (2). Application of foundational knowledge, theories, and skills in lab and clinical settings. Prerequisite: NURS 301 Corequisites: NURS 305, NURS 314, NURS 315, NURS 336, NURS 340.

NURS 305: Pharmacology I, (F) (2). Introduction to the knowledge and interventions needed to maximize therapeutic effects and prevent or minimize adverse effects of drugs. Emphasis on safe application of basic pharmacotherapy knowledge. Prerequisite: NURS 301 Corequisites: NURS 302, NURS 314, NURS 315, NURS 340.

NURS 314: Health Assessment, (F) (**Pre-Licensure**) (S) | (**Online RN to BSN**) (3). Gaining the knowledge to obtain health histories, physical examinations, and interpreting normal findings as well as common deviations from normal. Prerequisite: Prelicensure: NURS 301. Corequisites: Prelicensure: NURS 302, NURS 305, NURS 315, NURS 336, NURS 340.

NURS 315: Foundations & Pharmacology Lab, (F) (1). Application of foundational and pharmacological knowledge, theories, and skills in the lab setting. Prerequisite: NURS 301. Corequisites: NURS 302, NURS 305, NURS 314, NURS 336, NURS 340.

NURS 321: Concepts Adult & Geriatric Nursing, (S) (3). Focus on the concepts of nursing practice for caring for adults of all ages related to acute and chronic health care needs and assisting patients to meet their human needs related to promotion, restoration, and maintenance of health. Prerequisites: NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 336, and NURS 340. Corequisites: NURS 325, NURS 331, NURS 335, NURS 360, NURS 401.

NURS 325: Adult & Geriatric Health Clinical, (S) (3). Application of theories, clinical reasoning, and skills related to the acute and chronic care of adults of all ages. Prerequisites: NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 336, and NURS 340. Corequisites: NURS 321, NURS 331, NURS 335, NURS 360, NURS 401.

NURS 331: Mother-Baby & Pediatric Nursing, (S) (3). Focuses on the concepts of nursing practice for the care of mothers-babies and pediatrics and families. Health promotion, disease prevention, restoration, and maintenance are highlighted in this course. Prerequisites: NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 336, NURS 340. Corequisites: NURS 321, NURS 325, NURS 335, NURS 360, NURS 401.

NURS 332: Nursing Theory, (S) (**Online RN to BSN only**) (1). The use of theoretical reasoning and its role in current nursing practice.

NURS 334: Healthcare Policy & Finance, (F) (**Online RN to BSN only**) (3). Examine the role of the professional nurse in healthcare delivery policies, politics, regulation, and finance.

NURS 335: Mother-Baby & Pediatric Nursing Clinical, (S) (2). Application of the theories, clinical reasoning, and skills related to care of mothers, babies, children, and families. Prerequisites: NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 336, and NURS 340. Corequisite: NURS 321, NURS 325, NURS 331, NURS 360, NURS 401.

NURS 336: Transcultural Nursing, (**F (Pre-Licensure)**) | (**Summer (RN to BSN)**) (3). Focuses on cultural assessment and providing culturally competent nursing care from a transcultural caring perspective. Prerequisite: Prelicensure: NURS 301. Corequisites: Prelicensure: NURS 302, NURS 305, NURS 314, NURS 315, NURS 340.

NURS 338: Healthcare Informatics, (F) (**Online RN to BSN only**) (3). Examination of healthcare information systems and development of information literacy for healthcare providers.

NURS 340: Pathophysiology, (**F (Prelicensure)**) | (**Online RN to BSN**) (3). An examination of the physical or biochemical changes that are the cause or result of pathology or disease processes. Prerequisite: Pre-licensure: NURS 301. Corequisites: Prelicensure: NURS 302, NURS 305, NURS 314, NURS 315, NURS 336.

NURS 360: Evidence Based Practice & Research, (**S (Pre-Licensure)**) | (**F (Online RN to BSN)**) (3). Explore the role of research in nursing practice and health care delivery, and critically review research reports. Explore the evidence in the literature for nursing care strategies. Prerequisites: Prelicensure:

NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 336, and NURS 340. Corequisites: Prelicensure: NURS 321, NURS 325, NURS 331, NURS 335, NURS 401.

NURS 401: Introduction to Community Health, (S) (1). An introductory course to the concepts and principles of community and public health. Prerequisites: NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 336, and NURS 340. Corequisites: NURS 321, NURS 325, NURS 331, NURS 335, NURS 360.

NURS 403: Community & Family Clinical, (F) (1). Supervised clinical experience in a local and/or regional setting. Application of beginning theories, clinical reasoning, and skills for community and public health. Prerequisite: NURS 401. Corequisites: NURS 405, NURS 411, NURS 415, NURS 423, NURS 425, NURS 444.

NURS 405: Pharmacology II, (F) (3). Continued exploration of effects of chemicals used in the prevention, diagnosis, and treatment of disease including genetic implications of pharmacology. Prerequisite: Successful completion of NURS 305. Corequisites: NURS 403, NURS 411, NURS 415, NURS 423, NURS 425, NURS 444.

NURS 411: Mental Health Nursing, (F) (2). This course focuses on the mental health needs of the individual and family. Biological, psychological, emotional, and communication systems will be emphasized. Corequisites: NURS 403, NURS 405, NURS 415, NURS 423, NURS 425, NURS 444.

NURS 415: Mental Health Nursing Clinical, (F) (1). Application of knowledge, theories, and skills related to mental health nursing. Corequisites: NURS 403, NURS 405, NURS 411, NURS 423, NURS 425, NURS 444.

NURS 423: Community Health Nursing, (F) (Pre-Licensure only) (2). Development of clinical reasoning skills related to health and chronic illness of individuals and families, communities, and populations. Corequisites: NURS 403, NURS 405, NURS 411, NURS 415, NURS 425, NURS 444.

NURS 425: Community Health Nursing Clinical, (F) (1). Application of knowledge, theories, and skills related to health and chronic illness in the community. Corequisites: NURS 403, NURS 405, NURS 411, NURS 415, NURS 423, NURS 444.

NURS 426: Community Health Nursing & Clinical, (F) (**Online RN-BSN only**) (4). Care of clients in community settings with a focus on populations, illness prevention, and health promotion. This is a combined theory and clinical course.

NURS 430: Management/Leadership, (S) (3). This course focuses on management and leadership theories and principles applied to nursing practice with an emphasis on developing skills and strategies for innovative and creative approaches to healthcare management and leadership challenges. This course is taken in a student's senior year. Corequisites: NURS 451, NURS 455, NURS 475.

NURS 435: Management & Leadership in Nursing & Clinical, (F, S) (**RN to BSN only**) (4). Focuses on management and leadership theories and principles applied to nursing practice. This is a combined course of theory and clinical.

NURS 444: Emerging & Persistent Issues in Nursing Healthcare, (F) (Pre-Licensure) | (Summer) (Online RN to BSN) (3). Application of prerequisite knowledge and current evidence to persistent and emerging healthcare issues identified in scholarly literature and current epidemiological evidence. Topics will include current global, national, state, and local issues, genetics, and genomics. Corequisites: Prelicensure: NURS 403, NURS 405, NURS 411, NURS 415, NURS 423, NURS 425.

NURS 451: Concepts Adult & Geriatric Health II, (S) (3). Focus on the advanced concepts of nursing practice for caring for adults of all ages with complex health alterations. Corequisite: NURS 430, NURS 455, NURS 475.

NURS 455: Adult & Geriatric Health II Clinical, (S) (3). Application of knowledge, theories, and clinical reasoning in caring for adults of all ages experiencing complex alterations in health. Prerequisites: All prior NURS courses (NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 321, NURS 325, NURS 331, NURS 335, NURS 336, NURS 340, NURS 360, NURS 401, NURS 403, NURS 405, NURS 411, NURS 415, NURS 423, NURS 425, and NURS 444). Corequisites: NURS 430, NURS 451, 475.

NURS 475: Senior Practicum, (S) (3). Application and synthesis of prerequisite knowledge, skills, and clinical reasoning through the program. All prior NURS courses (NURS 301, NURS 302, NURS 305, NURS 314, NURS 315, NURS 321, NURS 325, NURS 331, NURS 335, NURS 336, NURS 340, NURS 360, NURS 401, NURS 403, NURS 405, NURS 411, NURS 415, NURS 423, NURS 425, and NURS 444). Corequisites: NURS 430, NURS 451, NURS 455.

PBHL 150: History of Public Health, (F, S) (3). Covid-19 has thrust Public Health into the spotlight, but the domain of public health includes many critical issues, including mental health, obesity, and gun violence. From the first quarantines to the modern movement towards universal health care, public health has fundamentally shaped societies. In this course, you'll learn the role of the state in public health, the importance of public health, and how it's provided and practiced. This online class has optional live sessions. Prerequisites: None.

PBHL 300: Epidemiology, (F) (3). Epidemiology is the branch of medicine which deals with the incidence, distribution, and control of a disease. In this course, you will learn and apply key concepts of epidemiology to multiple domains of public health. By the end of this course, you'll be able to use epidemiology to better understand, characterize, and promote health at a population level. This online class has optional live sessions. Prerequisite: MATH 230.

PBHL 350: Health Services, (F, S) (3) Health Services—the means by which healthcare is provided—is a critical concept in Public Health that impacts all of us. This course will introduce you to the modern history of healthcare in high, middle, and low income countries and explore the evolution of health services. Students will evaluate the strengths and weaknesses of particular systems and policies and examine their ideal version of a health service in the context of current events. This online class has optional live sessions. Prerequisites: None.

PBHL 375: Health Economics, (S) (3) The field of public health is driven by economics as much as it is by epidemiology. This course will teach you about health economics, which is the application of economic principles and techniques of analysis to health care in support of the public good. By the end of this course, you will learn how to analyze the effectiveness of health policy outcomes through an economic lens, and how to use available resources to improve the quality of healthcare. This online class has optional live sessions. Prerequisites: ECON 203.

PBHL 450: Public Health Studies I: Current Topics and Politics, (F) (3) This course is intended to provide students with a means of evaluating the health impact of political decisions and a broad knowledge base about the practice of Public Health today. Students will explore a range of current topics in public health—including COVID-19, HIV/AIDS, and the obesity epidemic. Students will also look at the impact of US politics on global public health, especially in developing nations. Furthermore, this course will explore key topics such as the WHO's Millenium Development Goals, the disastrous circumstances that can arise when Public Health Policies fail, and the conflict between data and political will that drives so much of Public Health policy decision making. This course culminates in a project in which students must plan a Health Impact Assessment of a current or proposed federal or state policy. Prerequisites: PBHL 150, MATH 230.

PBHL 451: Public Health Studies II: Demographics, Geo-Spatial Mapping, and Qualitative Research, (S) (3) This course provides students with a variety of tools for understanding the impact that disease or other Public Health concerns may have on a population. Students will learn how to design effective surveys, analyze geographic data, and use qualitative information with the ultimate goal of gaining a better understanding of how events may affect the health of a particular population. This course will also require students to participate in a mapathon in order to help them build understanding of how geographic data is used in the practice of Public Health. Prerequisites: PBHL 150, MATH 230, PBHL 450.

PHED 111: Beginning Swimming, (F, S) (1). This course is an introduction to swimming covering front crawl, backstroke, and breaststroke skills. By the end of the semester, students are expected to be able to swim each of these three strokes, legally, for 50 yards, and perform and lead stretching routines designed for swimming activity. (Course is for non-swimmers only.)

PHED 112: Intermediate Swimming, (F, S) (1). This course is an introduction to swimming covering butterfly and individual medley skills. By the end of the semester, students are expected to be able to swim each of the four strokes, legally, for 50 yards, and perform and lead stretching routines designed for swimming. Prerequisite: PHED 111 or permission from instructor.

PHED 114: Water Aerobics, (F, S) (1). This course is an introduction to water aerobics routines in shallow and deep water. By the end of the semester, students are expected to be able to perform these routines for at least 30 minutes and perform and lead stretching routines designed for water aerobics activity.

PHED 116: Yoga, (F, S) (1). Yoga relaxes the mind and body, reducing stress and contributing to positive mental and physical health. Basic postures (asana postures), relaxation, and breathing techniques are taught throughout the semester. In this course, you will be introduced to the practice of hatha yoga, a yoga system of physical exercises and breathing control.

PHED 121: Team Sports, (F) (1). This course is to develop knowledge and increase awareness and appreciation for team sports. Students will learn teamwork and will be encouraged to improve their overall fitness through class activities.

PHED 122: Volleyball, (F, S) (1). Students will learn the fundamentals of volleyball. This will include individual and team skills. This class is a beginning-level volleyball course. It will cover all of the fundamentals of play including passing, setting, serving, spiking, defensive techniques, and rules of play.

PHED 132: Golf, (F, S) (1). Students are taught the common rules of golf so they will understand and have the ability to explain. Also taught are the proper mechanics and techniques of the golf stroke, the formulation and application of game strategy, and the development of a practical mental approach. Proper game etiquette is demonstrated.

PHED 133: Tennis and Badminton, (F, S) (1). Students are taught the common rules of tennis and badminton so they will understand and have the ability to explain. Also taught are the proper mechanics and techniques of both sports, the formulation and application of game strategy, and the development of a practical mental approach. Proper game etiquette is demonstrated.

PHED 134: Personal Fitness & Aerobic Activities, (F, S) (1). Course is to develop knowledge and increase student awareness and appreciation for aerobic activities and to encourage students to improve their overall fitness, through class activities, and to continue training throughout their lives.

PHED 136: Weight Training, (F) (1). Course is to develop knowledge and increase awareness and appreciation for Weight Training. Students will learn techniques and be encouraged to improve their overall fitness through class activities.

PHED 192: Lifeguard Training, (F, S) (3). Advanced techniques of lifeguarding for water safety and rescue, first aid and safety, cardiopulmonary resuscitation (CPR), and automated external defibrillation (AED). American Red Cross certification (valid for two years) awarded to those who qualify at the end of the course. Prerequisite: successful completion of a swimming skills pre-test taken during the first class meeting.

PHED 201: Coaching Football, (Sum) (3). The practical study of the game of football, as it applies to the coach and player. A study of the fundamental skills, principles, and concepts. Odd years only.

PHED 202: Coaching Men's & Women's Basketball, (Sum) (3). Course is to develop an understanding of the strategies, skills, techniques, rules, and coaching techniques of basketball. The ability to organize a system of play for the game of basketball is also taught.

PHED 203: Coaching Soccer, (S) (3). This course will use the methodology used by the United States Soccer Federation in their licensing clinics and courses. Students will learn the rules of the game and be taught how to properly build and execute a training session. Students will learn how to break down the technical, tactical, mental, and physical aspects of the sport and will learn how to implement them into an educational setting. The coaching theories and methodologies could also be transferred into other sports as well.

PHED 204: Coaching Baseball & Softball, (Sum) (3). Course is the practical study of the game of baseball and softball, as it applies to the coach and player. A study of the fundamental skills, principles, and concepts.

PHED 241: History/Philosophy of Physical Education, (F, S) (3). Course is a study from primitive man through the present, with particular emphasis on Greek physical education, European systems, and development of physical education in North America. Includes some research into the history of various sports.

PHED 243: Philosophy of Coaching, (Sum) (3). An in-depth introduction to the coaching profession integrating the latest sport science research with practical knowledge for the high school and middle school coach. Includes sportsmanship, coaching diverse athletes, managing the athlete's behavior,

preventing and addressing drug and alcohol abuse, and developing parental and community relationships.

PHED 261: Physical Education: Elementary School, (F) (3). The role of the classroom teacher in physical education. Emphasis is placed on the application of game, movements, exploration, and rhythms and self-testing. Included are screening procedures for the assessment of motor development. Five hours of observation at the secondary school level is required.

PHED 275: Principles: Elementary Movement Form, (F) (3). An experience in discovering the principles behind basic movement forms at the elementary physical education level. Various movement theories and concepts will be explored and examined on the cognitive and kinesthetic bases.

PHED 340: Motor Development, (S) (3). An examination of an individual's motor development across the lifespan. Particular emphasis will be placed on the effect physical activity has on growth and development.

PHED 351: Tests and Measurement in Health & Physical Education, (F, S) (3). Evaluating health and physical education by the construction and administration of tests. Emphasizes reliability, objectivity, and validity of tests and grading systems. Students will be required to organize, administer a test, and evaluate and report the results. Prerequisite: students must have junior or senior standing.

PHED 361: Organization & Administration: Physical Education, (S) (Sum) (3). Administration of physical education and athletic programs in schools, with special emphasis on philosophy and leadership styles. Includes budget and finance, office management, curriculum development, facilities, legal factors, and public relations.

PHED 410: Exercise Physiology, (F, S) (3). This course details the numerous effects our behavior (exercise, physical activity, inactivity) has on human physiology. Topics of emphasis will be explored at a systems level, integrating the neuromuscular, metabolic, neuroendocrine, cardiovascular, and respiratory systems. Prerequisites: BIOL 331 or WELL 340, or permission from instructor. Fee: \$25 consumable items fee required.

PHED 420: Physical Education: Exceptional Child, (F) (3). This course will examine historical and legislative developments of physical education for people with disabilities. Emphasis will be placed on current concepts and trends in adapted physical education as well as the ability to plan and implement a physical education program that meets the unique needs of individuals.

PHED 421: Kinesiology, (F, S) (3). This course is designed to introduce the structures of human anatomy and explain how these structures are involved in human movement. A practical application of these principles will involve hands-on experiences performed on yourself or a partner to enhance the learning of human anatomy. Prerequisite: BIOL 330 or WELL 340, or permission from instructor. Fee: \$25 consumable items fee required.

PHED 461: Physical Education: Secondary School, (S) (3). Topical areas such as philosophy, teacher certification, competencies, and professional activities will be covered. Curriculum construction, instructional methods, class management, and techniques for teaching specific activities will be considered as they relate to the secondary level. Five hours of observation at the secondary school level is required. Prerequisite: permission from instructor.

PHED 471: Sports Management Internship, (F, S) (Sum) (6). Supervised sports management experience in a related setting. Students work 200 hours for 6 hours of credit. Prerequisite: permission from the School Dean.

PHED 495: Independent Study, (F, S) (Sum) (3). Independent work for advanced students only. Prerequisite: permission from instructor.

PHIL 215: Philosophy in the Modern World, (S) (3). An introduction to philosophy through examination of modern trends in the discipline. Attention is given to developments in philosophy in the 20th century, including but not limited to pragmatism, philosophy of language, and existentialism. Particular attention is given to the role of philosophy in discussions of political, social, and religious issues from the late 19th century to the present. Even years.

PHIL 252: Intro Philosophy: Ethics & Political Philosophy, (S) (3). A topical course focusing on questions related to the nature of moral value, skepticism and relativism, the individual and society, concepts of justice, and contemporary moral issues. Emphasis is placed upon helping students to develop skills in moral reasoning and the historical, social, and cultural contextualization of philosophical ideas. Odd years.

PHIL 260: Logic and Language, (F) (3). The course introduces rules for judging the validity of deductive arguments and the soundness of inductive arguments. Particular attention is given to defining logical structure in ordinary language arguments. Issues in the philosophy of language are examined. Odd years only.

PHIL 261: Topics in Philosophy of Religion, (S) (3). An introduction to philosophy through the examination of philosophical issues related to religious faith, such as arguments for the existence of God, the problem of evil, religious language, mysticism and religious experience, revelation and reason, natural law, miracles, life after death, relativism and pluralism, particularism, and universalism. Course will include traditional and contemporary approaches. Even years only.

PHIL 301: Readings in Philosophy, (F) (1-3). Reading courses for Religious Studies majors and minors, taken in the junior year. Prerequisite: permission from instructor.

PHIL 302: Readings in Philosophy, (S) (1-3). Reading courses for Religious Studies majors and minors, taken in the junior year. Prerequisite: permission from instructor.

PHIL 352: Topics in Political Philosophy, (F) (3). A topical course focusing on questions related to the nature of moral value, skepticism and relativism, the individual and society, concepts of justice, and contemporary moral issues. Emphasis is placed upon helping students to develop skills in moral reasoning and the historical, social, and cultural contextualization of philosophical ideas. Prerequisites: One (1) course in philosophy and one (1) course in religion or permission from instructor. Even years only.

PHIL 460: Knowledge & Reality, (S) (3). The course focuses on developments in epistemology and metaphysics during key periods in the history of philosophy, with particular attention to the consequences for moral and political thought. Course may be listed under an appropriate subtitle such as: philosophy of science, philosophy of mind, philosophy of language, reason and relativism, religion and science, etc. May be repeated for credit when listed under a different subtitle. Prerequisite: One course in philosophy and one course in religion or permission from instructor. Even years only.

PHIL 495: Independent Study, (On Demand) (3). Independent study or research on approved topics. May be repeated for credit. Prerequisite: permission from instructor.

PHYS 111: College Physics I, (S) (3). A two-semester sequence, these courses are intended for life science and non-science students. They must be taken sequentially. PHYS 111 topics include mechanics of motion; the properties of solids, liquids, and gases; and thermal phenomena. PHYS 112 topics include wave motion and vibrations; electricity and magnetism; optics; and selected topics in modern physics. Does not count toward a minor. Corequisite: MATH 131 or permission from instructor.

PHYS 112: College Physics II, (F) (3). A two-semester sequence, these courses are intended for life science and non-science students. They must be taken sequentially. PHYS 111 topics include mechanics of motion; the properties of solids, liquids, and gases; and thermal phenomena. PHYS 112 topics include wave motion and vibrations; electricity and magnetism; optics; and selected topics in modern physics. Does not count toward a minor. Corequisite: MATH 131 or permission from instructor.

PHYS 113: College Physics Lab I, (S) (1). Laboratory experiments accompanying PHYS 111 and PHYS 112 respectively to illustrate basic principles and develop laboratory skills. No credit may be received for these laboratory courses without concurrent or prior completion of the corresponding lecture course.

PHYS 114: College Physics Lab II, (F) (1). Laboratory experiments accompanying PHYS 111 and PHYS 112 respectively to illustrate basic principles and develop laboratory skills. No credit may be received for these laboratory courses without concurrent or prior completion of the corresponding lecture course.

PHYS 211: General Physics I, (S) (4). A two-semester sequence which must be taken in order. Mechanics of solids, liquids and gases; laws of thermodynamics; kinetic-molecular theory, vibrating bodies; wave physics; laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz; electromagnetism; and optics. Prerequisite or Corequisite: MATH 242.

PHYS 212: General Physics II, (F) (4). A two-semester sequence which must be taken in order. Mechanics of solids, liquids and gases; laws of thermodynamics; kinetic-molecular theory, vibrating bodies; wave physics; laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz; electromagnetism; and optics. Prerequisite or Corequisite: MATH 242.

PHYS 213: General Physics Lab I, (S) (1). Laboratory components accompanying PHYS 111 and PHYS 112 respectively. A general physics laboratory course involving experiments in mechanics, heat, sound, electricity, magnetism, and optics. Experiments are coordinated with PHYS 211-PHYS 212. No credit may be received for these laboratory courses without concurrent or prior completion of the corresponding lecture course.

PHYS 214: General Physics Lab II, (F) (1). Laboratory components accompanying PHYS 111 and PHYS 112 respectively. A general physics laboratory course involving experiments in mechanics, heat, sound, electricity, magnetism, and optics. Experiments are coordinated with PHYS 211-PHYS 212. No credit may be received for these laboratory courses without concurrent or prior completion of the corresponding lecture course.

PHYS 304: Modern Physics, (F) (3). Study of modern physics: relativity, quantum mechanics, wave/particle duality, atomic/nuclear/particle physics, and cosmology. Prerequisites: PHYS 111 and PHYS 112, or PHYS 211 and PHYS 212. Even years only.

PHYS 305: Problem Solving in Modern Physics, (F) (1). Calculus-based problem-solving supplement to PHYS 304, Modern Physics. Prerequisites: PHYS 211 and 212, and MATH 242. Prerequisite or Corequisite: PHYS 304. Even years only.

PHYS 331: Heat and Thermodynamics, (On Demand) (3). Thermodynamic systems and processes, equations of state, PVT surfaces and real substances, laws of thermodynamics, energy equations, enthalpy, entropy, thermodynamic potentials, and application of thermodynamics to simple systems. Prerequisite: PHYS 212. Prerequisite or Corequisite: MATH 243. Odd years only.

PHYS 402: The Physics of Solids, (On Demand) (3). A study of the physical, mechanical, thermal, electrical, and magnetic properties of solid phase materials. Also, to be considered are experimental methods for investigating solids. Prerequisites: MATH 131 and either PHYS 111 and PHYS 112, or PHYS 211 and PHYS 212.

PLA 200: Prior Learning Assessment, (Online), (1). This course offers adult learners the opportunity to document previous learning experiences for elective college credit. This Portfolio Development course is an introductory study of composition utilizing the CAEL model portfolio development process. Students will write and submit one or more portfolios during the course that will be evaluated for elective credit. Pass/Fail.

PLA 300: Prior Learning Assessment, (Online) (1). This course offers adult learners the opportunity to document previous learning experiences for elective college credit. This Portfolio Development course is an introductory study of composition utilizing the CAEL model portfolio development process. Students will write and submit one or more portfolios during the course that will be evaluated for elective credit. Pass/Fail.

PLSC 101: American National Government, (F, S) (3). A survey of the principal characteristics of the American National Government; examination of constitutional principles, federalism, political participation, institutions of government, and the politics of public policy. Please see the Department of History, Religious Studies & Languages section of the catalogue for information on the History and Political Science Major.

PLSC 209: American Courts & Judicial Process, (S) (3). This course presents an overview of the development of federal and state court systems examining structure, administration, case flow, and interaction with other portions of the criminal justice and governmental systems. Cross-listed with CRJU 209.

PLSC 231: International Politics, (F) (3). Basic historical, economic, and cultural factors in the international political system including the rise and development of Western nation-state systems; the foundations of national power; sovereignty, nationalism and imperialism; the development of international organizations and cooperation.

PLSC 305: American Political Parties & Politics, (On Demand) (3). The organization, functions, and practices of political parties in the United States, their methods of influencing public opinion, their role in nominations and elections, and their impact on popular government.

PLSC 306: Topics in Political Science, (3). Provides in-depth coverage of topics not included in the regular Political Science curriculum. Cross-listed with CRJU 306.

PLSC 307: Criminal Justice Administration, (3). A study of the administrative principles and management practices of criminal justice organizations including police agencies, courts, and correctional institutions. Cross-listed with LAWS 307.

PLSC 382: Legal Political Thought - Classical, (F) (3). This course examines ancient understandings of law, statesmanship, and the good society. Problems relating to these interwoven components of the political arena are considered on both theoretical and practical levels, the first concerning what the relationship of citizen and state should be, the latter involving review of practices as seen through the lives of actual rulers from ancient Greece and Rome. Cross-listed with CRJU 382.

PLSC 383: Legal Political Thought - Modern, (S) (3). This course examines the way in which seminal questions with relation to the proper foundations and structures of society have been approached in the modern era. Analysis includes examination of founders, religion, and the military, especially in connection to the concepts of fortune and necessity. Cross-listed with CRJU 383.

PLSC 401: Public Policy & Criminal Justice, (F) (3). The study of policy questions in the criminal justice system. Particular emphasis is placed on a detailed examination of the major policy issues that link crime, politics, administration, and the law. Prerequisite: upper division standing. Cross-listed with CRJU 401.

PLSC 405: The American Founding, (F) (3). The American Founding is an inquiry into the governing principles of the Declaration of Independence and how its transformation culminated in the Constitution of the United States. To understand the modern American political system requires a re-examination of first principles and the relationship between the two fundamental documents of the American republic. Even years only. Cross-listed with CRJU 405.

PLSC 408: American Presidency, (On Demand) (3). Analysis of the institution of the presidency, its functions, formal and informal relationships, and its limitations within the American political system.

PLSC 409: Statesmen, Soldiers & Leadership, (F) (3). This course is an inquiry into the nature, purpose, origin, structure, and practical consequences of political and military leadership. Questions concerning the elements of great leadership from perspectives of personal attributes and implementation of policy will be of prime import. Odd years only. Cross-listed with CRJU 409.

PLSC 470: Political Violence, (On Demand) (3). The purpose of this course is to introduce the student to the issues relating to violence as a component of politics. Topics such as terrorism, warfare, and arms proliferation will be analyzed. In addition, the course will familiarize the student with several regional conflicts, e.g., Northern Ireland. Cross-listed with CRJU 470.

PLSC 483: Constitutional Law II: National Powers, (S) (3). An overview of the United States Supreme Court's interpretation of Articles I, II, and III of the federal constitution. These articles divide the powers of the federal government between three ostensibly co-equal branches. The respective branches may only exercise those powers granted to them by the respective Articles. Powers not delegated to one of the branches are reserved to the states. These two constitutional principles - separation of powers and federalism - invariably generate conflicts among the three branches and between the branches and the various states. The Supreme Court's efforts to arbitrate such conflicts are examined through analysis of its decisions and its efforts to interpret the "plain meaning" of the Constitution's language, and to discern the "intent of the founders." Even years only. Cross-listed with CRJU 483.

PLSC 486: Constitutional Law I: Civil Liberties, (S) (3). The development and interpretation of the Constitution examined through analysis of the decisions of the Supreme Court and secondary sources, focusing on the Bill of Rights and the Fourteenth Amendment. The course serves as an introduction to how our national heritage of civil liberties has been articulated by the Court to form law and legal doctrine over the course of two centuries, including consideration of the areas of privacy, public morality, defendant's rights, and the death penalty. This dual registration course is also available for upper-division elective credit in Criminal Justice. Prerequisites: CRJU 201 and CRJU 205, or permission from instructor. Odd years only. Cross-listed with CRJU 486.

PSYH 200: Introduction to Psychology, (F, S) (3). Emphasis on the study of human behavior and the ability of the individual to make adjustments to his/her environment.

PSYH 202: Forensic Psychology, (F) (3). An application of psychological principles to the criminal justice system. Topics include: the relationship between the legal and mental health systems, the assessment of criminal responsibility, the psychodynamics of criminal behavior, and intervention strategies.

PSYH 275: Cross-Cultural Psychology, (F, S) (3). This course examines human behavior from a cross-cultural perspective. This course will evaluate psychological theories that make assumptions from a limited cultural perspective through exploring recent research and topics that challenge these commonly accepted psychological theories. The goal of this course is to provide a broader knowledge and understanding of the field of psychology outside the U.S. culture. Prerequisite: PSYH 200 or permission from instructor.

PSYH 290: Clinical Psychology (F, S) An introduction to the basics of clinical psychology. This course stresses the importance of theory, quality research, prevention, assessment skills, and clinical abilities in interventions. Reviews and examines three theoretical perspectives - psychoanalytic, behavioral, and phenomenological - and makes use of case material and real-world applications to illustrate each theoretical approach. There will be an emphasis on the advantages of the scientist-practitioner model of preparation for the multitude of functions available to clinical psychologists. Prerequisite: PSYH 200, or permission from instructor.

PSYH 301: Statistics for Psychology, (F) (3). This course will provide an introduction to descriptive and inferential statistics, with emphasis on use in psychological research. Attention is given, in this course, to the use of statistical software for data analysis, and the selection of appropriate texts for particular experimental designs. Prerequisites: MATH 230 and PSYH 200, or permission from instructor.

PSYH 302: Research Design, (S) (3). This course continues the study of inferential statistics and the design and interpretation of psychological experiments begun in PSYH 301, Psychological Measures & Analysis. Includes an examination of qualitative and quantitative research methods, data collection procedures, methods of observation and analysis, reporting results, and ethical issues in research psychology. Prerequisites: PSYH 200 and PSYH 301.

PSYH 310: The Psychology of Aging, Death, and Dying, (F) (3). This course addresses the processes of aging and dying and the influence of concerns of same on human behavior. It is designed primarily for health care providers including psychologists, counselors, nurses, physician assistants, physicians, and other ancillary health care professionals, as well as educators, athletic trainers, coaches, etc. As lifespan lengthens and technical advances provide many options for treatment and care, end of life awareness and decision-making processes demand education and informed decision making skills.

PSYH 315: Physiological Psychology, (F) (3). This course examines the biochemical, neuroanatomical, and physiological bases of human and animal behaviors such as sensory perception, motor function, language, learning, memory, and emotion. Prerequisite: PSYH 200 or permission from instructor. Formerly PSYH 215.

PSYH 330: Social Psychology, (F, S) (3). Major emphasis is on problems involved in human relations. Designed to help the individual to understand and adjust to group thought and action. Attention is given to recent psychological and sociological research in human relations. Prerequisite: PSYH 200 or permission from instructor.

PSYH 332: Lifespan Development, (F, S) (3). This course examines the theories and research on psychological development from birth to death. This course will focus on the topical areas of physical, cognitive, and social changes that occur throughout life. Prerequisite: PSYH 200 or permission from instructor.

PSYH 350: Cognitive Psychology, (F, S) (3). An introduction to the study of human information processing. Topics include attention, thinking, pattern recognition, short and long- term memory, semantic memory, mental imagery, problem solving, creativity, and language acquisition. Prerequisite: PSYH 200 or permission from instructor. Even years only.

PSYH 352: Abnormal Psychology, (S) (3). Mental disorder, changing conceptions of normality, the more common forms of mental disorders, their psychological interpretation, principles of effective mental hygiene, and contemporary approaches to psychotherapy. Prerequisite: PSYH 200 or permission from instructor.

PSYH 360: Sensation and Perception, (S) (3). An introduction to the principles and theories of human perception. The anatomy and physiology of different sensory modalities are examined. Topics include vision, hearing, touch, taste, and smell. Psychophysics is covered. Prerequisite: PSYH 200 or permission from instructor. Even years only.

PSYH 402: Counseling Theories & Techniques, (F) (3). Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing. Prerequisite: PSYH 290 or permission from instructor. Even years only.

PSYH 405: Foundations of Chemical Dependency I, (F, S) (4). Introduction to the foundations of the alcohol and drug abuse rehabilitation field. Emphasis on the roles and responsibilities of the addictions counselor. Focus is on the first six (6) of the twelve (12) core functions: screening, intake, orientation, assessment, treatment planning, and basic counseling skills. Interactive work stressed.

PSYH 406: Foundations of Chemical Dependency II, (F, S) (4). Introduction to the foundations of the alcohol and drug abuse rehabilitation field. Emphasis on the roles and responsibilities of the addictions counselor. Focus is on the last six (6) of the twelve (12) core functions: case management, crisis intervention, client education, referral, reports and recordkeeping, and consultation with other professionals, in regard to client treatment and services. Interactive work stressed. Prerequisite: PSYH 405.

PSYH 407: Ethical Issues in Chemical Dependency Treatment, (F, S) (1). Introduce students to the ethical issues involved in chemical dependency treatment. Special attention will be given to the epidemiology of HIV/AIDS, hepatitis, tuberculosis, and sexually transmitted diseases that frequently infect people who use drugs or who are chemically dependent. Students will examine treatment options

and prevention strategies. The ethical and legal issues that impact infected individuals as well as the larger community will be explored. Students are expected to demonstrate respect for the client and an appreciation of individual and cultural differences, including sexual orientation. They are also expected to explore their own attitudes and biases about HIV/AIDS and infectious diseases.

PSYH 410: Psychology of Addictions, (F, S) (3). Major emphasis is on factors determining the development of addictions, including physiological, emotional, cognitive, and behavioral dimensions of the addictive process. Also emphasizes intervention and treatment strategies for the various types of chemical dependency and substance abuse. Prerequisite: PSYH 200 or permission from instructor.

PSYH 413: Recovery & Relapse, (F, S) (3). This course is designed to address the diverse issues that are related to the recovery from addiction as an ongoing process involving physical, psychological, social, intellectual, spiritual, and cultural aspects of the individual. Major themes of the course include the passages of recovery, relapse prevention principles, relapse warning signs, and the 12-step approach to recovery. Using a holistic perspective, students will gain insight into basic recovery principles as they are related to the process and prevention of relapse.

PSYH 424: Biological Systems of Chemical Dependency, (F, S) (3). Exploration of the physiological effects of chemical use on human biological systems and human development. Emphasizes identification and management of chemically induced crises situations, including issues in co-morbidity and prevention.

PSYH 425: Crisis and Trauma (3). This course is a basic introduction into accepted approaches to working with people who have experienced trauma in their lives. Using current available research literature, this course will introduce students to the definition and types of trauma, critical incident stress management/debriefing (CISM/CISD), client resourcing and stabilization ethical considerations, theoretical frameworks, assessments/diagnosis, effective treatments/interventions, prevention, and therapist self-care (vicarious trauma).

PSYH 454: Human Sexuality, (Online) (3). This course is focused on the interplay between motivation, behavior, cognition, and emotion. The understanding of it is used to help people improve their emotional self-regulation, motivation, and cognitive-behavioral restructuring in the co-creation of their relationships and adjustments to the world. Prerequisite: PSYH 200 or permission from instructor.

PSYH 460: Personality Theories, (F) (3). The nature of personality structure and dynamics. Classical psychoanalysis, social, psychological, and stimulus-response theories included. Prerequisite: PSYH 200 or permission from instructor.

PSYH 461: History and Systems of Psychology, (F, S) (3). This course is designed to allow students to discover the philosophical and historical roots of psychology and to give students some idea of where the study of human cognition and behavior is going in the near future. The course is divided into four main sections: (1) The present: globalization, psychology, and history; (2) early philosophical and biological foundations of scientific psychology; (3) schools of psychology; and (4) diversity in psychology. Prerequisite: PSYH 200 or permission from instructor.

PSYH 470: Learning Theories, (F, S) (3). The major focus of this course is an exploration of how individuals learn, including specific learning theories and their relation to classroom teaching. Prerequisite: PSYH 200 or permission from instructor. Odd years only.

PSYH 475: Advanced Behavioral Neuroscience, (S) (3). This course will present an overview of topics in neuropsychology of behavior with the goal of: introducing students to the science of neuropsychology; familiarizing students with the methods in neuropsychology; and familiarizing students with how clients with neuropsychological impairments may present in their future clinical work. Prerequisite: PSYH 315. Odd years only.

PSYH 481: Special Topics in Psychology, (On Demand) (3). An intensive study of selected topics of interest within the discipline of psychology. May be repeated for credit as the topic varies. Prerequisites: vary depending on course topic, or permission from instructor.

PSYH 485: Substance Abuse Internship, (3). The course will provide an overview and real-life experience in the field of substance abuse. Throughout this course we will look at the 12 core functions of substance abuse counseling and how they are applied, we will look at how to utilize community resources for a well-rounded approach to substance abuse counseling, we will look at assessing community needs, and we will look at program design and development in the substance abuse field.

PSYH 497: Senior Seminar I, (F) (3). Senior Seminar is a two-phase (PSYH 497 and PSYH 498) capstone process that leads to a research paper, to be presented to an institutional, regional, national, or international professional event. Major emphasis is on knowledge and application of psychological research concepts and methods. Research areas to be covered include design, methods, statistical analysis, statistical software packages, writing research proposals and reports, and ethics in research. Prerequisites: PSYH 200, PSYH 301, PSYH 302 or permission from instructor.

PSYH 498: Senior Seminar II, (S) (3). Students will extend the application of principles and concepts learned in PSYH 497 (Senior Seminar I). Topics covered may include experimental design, survey design, advanced statistics, qualitative research design, and empirical writing. Students will implement their Senior Seminar II proposals by revising and expanding their literature reviews, revising and implementing their designs, analyzing results, and describing conclusions. Students will also prepare a professional presentation to be given at an institutional symposium and/or professional conference. Prerequisites: PSYH 301, PSYH 302, PSYH 497, senior standing or permission from instructor.

RECM 111: Introduction to Recreation & Leisure, (F, S) (3). An introduction to leisure in our society. The course explores leisure service concepts; examines the differences among play, sport, leisure, recreation, and work; and explores modern and historic patterns of leisure, delivery systems, and the premise on which the public provision of recreation services is founded.

RECM 130: Wilderness Survival, (F) (3). This course deals with backcountry safety and ethics, with a primary focus on preventing accidents and injuries, a secondary focus on surviving accidents and injuries, and a tertiary focus on primitive skills.

RECM 131: Mountain Biking, (F, S) (1). Introduces students to the specific skills required to explore the back country by mountain bike. Topics covered will include: bike fit, trail riding, environmental issues, bike design and repair, and route planning. Prerequisite: RECM 130 or permission from instructor.

RECM 132: Fly Fishing, (S) (1). This course is designed to provide a foundation in basic casting skills, fish habitat, basic entomology, fly tying, and rod construction.

RECM 135: Canoe/Kayak, (S) (1). Introduction to the basic skills and techniques required for safe and enjoyable river and lake travel by canoe and kayak. Prerequisite: RECM 130 or permission from instructor.

RECM 190: Special Topics, (F, S) (1). This course is designed to offer different activity courses in Recreation. Examples: hiking and backpacking, adventure racing, climbing, and rappelling.

RECM 201: Principles of Outdoor Recreation, (S) (3). Designed to deliver a comprehensive overview of outdoor recreation in the United States. It explores the full range of the outdoor recreation movement, from its underlying philosophical and social underpinnings, to its rich history, to the current providers of the diverse outdoor recreation opportunities which exist. Includes off-campus sessions.

RECM 235: Wilderness Adventure & Education, (F) (3). This course explores adventure education as pedagogy, especially in the context of recreational communities of practice, notably the caving community. Includes off-campus activities involving cave exploration and mapping and single-rope-technique climbing and rappelling.

RECM 250: Recreation Programming, (F) (3). This course will cover the program planning and delivery process as a logical problem-solving system, covering needs analysis, population identification, design implementation, and program evaluation. Includes off-campus sessions.

RECM 333: Recreation Visitor Behavior, (S) (3). Examining the social psychological principles at work when people recreate in the outdoors. This course is essentially the study of recreation and leisure behavior as it impacts the planning, design, and management of natural resource-based recreation opportunities. Special consideration will be given to the effect of human behavior on natural environments. Prerequisites: RECM 111 and RECM 201 or permission from instructor. Includes off-campus sessions.

RECM 350: Recreation Administration & Leadership, (S) (3). The study of leadership techniques and applications necessary for the delivery of recreation programs, in a variety of leisure settings.

RECM 411: Interpretive Methods, (F) (3). This course covers the basic principles of interpretation/education in the natural setting that contribute to the leisure experience and as part of natural and cultural resource management. Communication, educational, and media skills will be demonstrated through instructor and student organized applications. Prerequisite: upper division status or permission from instructor. Includes off-campus sessions.

RECM 475: Philosophy of Recreation Management, (S) (3). A career in recreation management is one of considerable responsibilities and rewards. Developing a professional philosophy is a necessity for a fulfilling career. At the heart of recreation management are the philosophical ideals of excellence, care, equity, and respect for self and for others. Prerequisite: upper division status or permission from instructor.

RECM 480: Environmental Ethics, (F) (3). Environmental ethics is a principled attempt to redefine boundaries of ethical obligation. This class will introduce the student to a wide range of environmental ethical theories and philosophies. Designed as a “taking sides” course, discussions will center on current major environmental issues, emphasizing an examination of all relevant positions. Prerequisite: upper division status or permission from instructor.

RECM 485: Recreation Management Internship, (F, S) (Sum) (6). Supervised recreational internship in an outdoor/park setting for either 180 or 360 hours of practical and related work experience, which occurs no sooner than two semesters prior to graduation. Application shall be made by midterm of the preceding semester. Prerequisite: minimum 2.5 GPA in RECM course work.

RLGN 120: Morality & Community, (F) (2-3). The course examines the role of religion in moral formation and community service (service to society, by self-defined groups). Primary attention is given to the wisdom and prophetic traditions of Judaism, Christianity, and Islam. Issues of social justice are a central point of focus, and limited attention is given to contemporary figures in whose voices are heard echoes of the prophetic traditions. Students develop the ability to interpret sacred texts of these religions, in relation to the social location of the ancient audiences, as well as their own. To this end, a service-learning project is required of all students. On the basis of the service experience and directed reflection upon it (individual and collective reflective), students will critically examine the role of religion in shaping conceptions of justice for individuals and communities.

RLGN 211: History & Faith of Ancient Israel, (S) (3). A study of selected writings of the Hebrew Bible, Apocrypha, and New Testament, with particular attention to the historical development of religious faith and practice in ancient Israel from earliest times to the rise of Christianity. Attention is also given to the formation and development of Judaism in relation to the formation of its scriptural canon. Students are introduced to various scholarly methods of biblical interpretation. Even years.

RLGN 231: Topics in World Religions, (S) (3). An introduction to the academic study of religion through an examination of the relationship between religion and culture in the world's major religious traditions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam. Possible topics of focus include religious law and ethics, varieties of religious experience, and role of geography in the rise and spread of the major religions. Odd years.

RLGN 251: Topics in Early Christianity, (F) (3). The course examines important historical and theological developments in Christianity from the New Testament period until the late Middle Ages, with particular attention to the interpretation of Jesus' life and teachings in social and cultural context. Based on topic, this course may cross-list with courses in History, Art History, or Philosophy. Odd years.

RLGN 256: Topics in Modern Christianity, (S) (3). The course examines important historical and theological developments in Christianity since the Reformation. Particular attention is given to the development of "historical consciousness" and the implications for theology, ethics, and biblical hermeneutics. Based on topic, this course may cross-list with courses in History, Art History, or Philosophy. Odd years.

RLGN 301: Readings in Religion, (F) (1-3). Reading course for Religious Studies majors and minors, taken in the junior year. Prerequisite: permission from instructor.

RLGN 302: Readings in Religion, (S) (1-3). Reading course for Religious Studies majors and minors, taken in the junior year. Prerequisite: permission from instructor.

RLGN 331: Identity of Jesus Christ, (F) (3). An examination of the four New Testament gospels and the portrait of Jesus presented in each. Attention is also given to Jesus tradition found in other New Testament writings (James and 1 John). Historical, socio-rhetorical, and theological methods of interpretation are introduced. Prerequisite: RLGN 211 or RLGN 231, or permission from instructor. Odd years only.

RLGN 341, Paul the Apostle: Life, Teachings, and Legacy, (F) (3). The course examines Paul's place in what Christianity calls the Apostolic Tradition. Interpretation of Paul's letters are the principal focus of

the course. Other biblical writings (Acts and General Epistles) and early Christian writings are also examined. Even years.

RLGN 361: Education in the Local Church, (On Demand) (3). Theory and practice of Christian Education with special attention on planning a program in the local church. Prerequisite: RLGN 211 or RLGN 231, or permission from instructor.

RLGN 401: Readings in Religion, (F) (1-3). A reading course that can be taken as a supplement to another 400-level course or as a stand alone course.

RLGN 412, Bible and Worship, (S) (3).

The course examines how worship in ancient Israel and early Christianity provided a context for formation and transmission of religious tradition. Attention also is given to how worship plays a comparable role in contemporary religious communities. Even years.

RLGN 452: Renaissance & Reformation, (F) (3). A study of the medieval roots of the Renaissance, the Protestant Reformation, and the Catholic counter-reformation, and their contribution to the beginnings of the early modern period of European history. The principal focus is the complex relationship between Renaissance humanism and Reformation religious thought and the enduring social and cultural influence of the two movements on Western civilization. Prerequisite: RLGN 211 or RLGN 231, or permission from instructor. The course may cross-list with HIST 451. Odd years only.

RLGN 454: Religion in the United States, (F) (3). A phenomenological and historical study of the varieties of religious practice in the United States. Possible topics include civil religion, new religious movements, and the impact of Diasporas from the southern hemisphere. Prerequisite: RLGN 211 or RLGN 231, or permission from instructor. Even years only.

RLGN 461: Islamic Religion & Civilizations, (S) (3). The political and religious history of the Middle East from the beginning of Islam to the beginning of the modern era. Particular attention is given to interaction with Greek and Christian civilizations. Cross-lists with HIST 461. Even years only.

RLGN 479: Seminar in Religion, (S) (3). Intensive study of special topics in religion. Prerequisites: advanced standing and permission from instructor.

RLGN 495: Independent Study, (F, S) (3). Independent study or research on approved topics. Prerequisite: permission from instructor. May be repeated for credit.

SLRN 102: Service Learning, (On Demand) (1). This course is designed to provide students with experience and reflection during a midterm break or during a semester project concerning the nature of community and social problems, and to prepare students for civic engagement and social responsibility. The course will include a supervised service-learning component through which students will develop skills and knowledge to meet community needs and better understand societal problems. (See Service Learning in the Academic Program section.)

SOCI 131: Introduction to Sociology, (F, S) (3). The interaction of individuals, within a larger social context, in order to help students develop “sociological imagination” about their own lives. The course examines how group life is organized and how it functions at both micro and macro levels; the process of socialization as well as the various axes of inequality, including race, social class, and gender and looks at a variety of social institutions including the family, education, health care, and religion.

SOCI 231: Juvenile Delinquency, (every third year) (3). An introduction to the study of juvenile delinquency and the juvenile justice system. The course investigates the topics of juvenile law, theories of causation and procedural issues, and their interrelationships.

SOCI 241: Sociology of Appalachia, (F, every third year) (3). Uses the basic principles and concepts of sociology to study life in the Appalachian region. The areas of study include socio-economic class, culture, folklore, social institutions, the family, religion, schooling, poverty, and development. Cross-listed with APST 241.

SOCI 251: Social Problems, (S, even years) (3). Scientific understanding of social problems; problem areas in contemporary American society; and world-wide problems such as racism, sexism, problems in education, social stratification, problems in children's lives, environmental degradation, and violence.

SOCI 271: Sociology of the Family, (every third year) (3). How do we define family today? How is it structured? We examine key issues that have changed over the past 30 to 50 years, including dating and sexuality, single motherhood, teen pregnancy, divorce, stepfamilies, balancing work and family, and motherhood vs. fatherhood. Emphasis upon changing attitudes toward family relationships, some of the problems involved, and suggested solutions.

SOCI 300: Methods Qualitative Research & Community Development, (F, even years) (3). This course will provide an introduction to the methods and tools of qualitative analysis and writing. Course material will include training in qualitative research, emphasizing interviewing, oral history collection, and historiography. Students will also have the opportunity to examine ethical issues related to historical writing, research, and presentation of materials. In addition, the course will cover the basic skills needed to conduct historical research, including locating, using, and evaluating sources, and will explore how such work can shape and inform community development initiatives at the local level. Readings will be assigned regarding qualitative methods as well as community development. Students will also be trained in oral history collection. Each student will be required to collect at least one oral history for this course.

SOCI 343: Sociology of Sex and Gender, (S, every third year) (3). An examination of the interaction between sex and gender in contemporary U.S. society, with the focus on how society influences and constructs these two core concepts in both micro and macro realms. Prerequisite: SOCI 131 or upper division standing.

SOCI 353: Minority Groups, (S, odd years) (3). A sociological examination of the origin and organization of minorities and their effect on society today, with particular emphasis on minorities in the United States. Prerequisite: SOCI 131 or upper division standing.

SOCI 355: Small Group Dynamics, (on demand) (3). An interdisciplinary approach will be used to analyze the social interaction that generates interdependence among the members of a small group. Particular emphasis will be given to theories and activities which focus on the properties and dynamics that are common to all small groups: structure, interaction, self-identity, and common goals. Prerequisite: PSYH 200 or SOCI 131 or upper division standing.

SOCI 363: Corrections: Institutional and Community Based, (S, every third year) (3). Public policy issues and problems in juvenile and adult correctional settings are explored. An analysis of the modes of treatment/punishment of legal offenders and their families as a vulnerable population group will be made from a historical perspective, rehabilitation approaches, de-institutionalization, and community-based programs. Roles of the correctional officer will be examined in institutional settings, and in probation, parole, and community-based programs. Prerequisites: Open to Criminal Justice majors

having upper division (junior) standing and permission from instructor. Open to Psychology and Sociology majors having upper division (junior) standing and permission from advisor and instructor.

SOCI 372: Social Stratification and Inequality, (S, odd years) (3). An analysis of the social stratification system including the concepts of class, status, prestige, income, and wealth; the impact of social stratification on American society. Prerequisite: SOCI 131 or upper division standing.

SOCI 381: Special Topics, (F, even years) (3). A study of selected topics of interest within the discipline of sociology. May be repeated for credit as the topic varies. Prerequisite: junior or senior standing, or permission from instructor.

SOCI 387: Field Practicum in Sociology, (on demand) (3). The field practicum in sociology is designed to give Social Science Majors practical experience in a professional field related to sociology. Field placements will include such diverse experiences as working in the county clerk's office, pre-trial services, social services and other programs. Prerequisites: SOCI 131 and upper division standing.

SOCI 401: Feuds, Fights, Murders and Violence: Issues in Appalachia, (S, odd years) (3). Employing the approaches of a number of social scientific perspectives, this course will try to better understand violence, murder, and feuding in Appalachia and the Upland South. This course will consider these issues through the examination of a series of case studies including a murder case in the Ozarks, the Hatfield-McCoy feud in Kentucky and West Virginia, and the violation of honor leading to violence in the South. Cross-listed with APST 401.

SOCI 421: Rural and Urban Sociology, (F, even years) (3). Comparative and interrelated study of urban and rural life considering institutional, social, and economic factors of modern life in cities and rural areas. Examination of Appalachia in particular, in order to compare and contrast that experience with that of rural life generally. Prerequisite: SOCI 131 or upper division standing.

SOCI 423: Sociology of Children, (S, every third year) (3). Comparative analysis of children's lives and problems from their own perspective, as well as sociological perspectives. Examination of how childhood is constructed differently across time and space, and by gender, social class, and racial/ethnic backgrounds. Prerequisite: SOCI 131 or upper division standing.

SOCI 460: Sociological Theory, (F, odd years) (3). The major classical and contemporary sociological theories which have proved useful in investigating the nature of society are examined. Lecture and discussion in a seminar setting. Prerequisites: SOCI 131 and upper division standing.

SOCI 464: Deviance & Criminology, (S, even years) (3). This course will examine the relationship between deviance, crime, and society. Included in this class is the examination of how deviance and crime are defined, by whom, and why they are seen as problematic; also, the study of important trends in terms of how crime and deviance have changed over time. Prerequisite: SOCI 131 or upper division standing.

SOCI 490: Senior Seminar, (S) (3). Capstone course for graduating seniors in sociology. Students complete a variety of exercises to prepare themselves for employment and / or graduate school, as well as a portfolio of their work in sociology. Students revise a major paper or project which they could then present at a conference or include in their portfolio. Prerequisites: SOCI 131 and graduating senior in sociology.

SOCI 495: Independent Study, (On Demand) (1-3). Independent study and/or research on approved topics. Prerequisite: permission from instructor.

SPAN 111: Elementary Spanish I, (F) (3). Basic Spanish grammar; simple reading and practice in the oral and written language. Students complete course with a novice-low or novice mid-level of proficiency in the Spanish language, as defined by the American Council on the Teaching of (ACTFL) Proficiency Guidelines. Not open to students with two (2) or more years of Spanish study or experience.

SPAN 112: Elementary Spanish II, (S) (3). Continuation of Spanish 111. Students complete course with a novice-mid to novice-high level of proficiency in the Spanish language, as defined by the American Council on the Teaching of Foreign Language (ACTFL) Proficiency Guidelines. Recommended for students with one (1) or more years of high school Spanish. Prerequisite: SPAN 111 or equivalent, with permission from instructor.

SPAN 113: Spanish for Professional Practice, (F, S) (3). This course will present students with elementary Spanish grammar utilizing vocabulary, practice exercises, and model dialogues focusing on specific professional practice applications (medical, social work, education). Students completing this course and wishing to continue their study of Spanish should take SPAN 112.

SPAN 211: Intermediate Spanish I, (F) (3). A more advanced study of grammatical structure and a more advanced reading and practice in the oral and written language. The students complete course with an intermediate-low or intermediate-mid proficiency in the Spanish language as defined by the American Council on the Teaching of Foreign Language (ACTFL) Proficiency Guidelines. Recommended for students with two (2) or more years of high school Spanish. Prerequisite: SPAN 112 or equivalent, with permission from instructor.

SPAN 212: Intermediate Spanish II, (S) (3). Continuation of SPAN 211. Students complete course with an intermediate-mid to intermediate-high proficiency in the Spanish language as defined by the American Council on the Teaching of Foreign Language (ACTFL) Proficiency Guidelines. Recommended for students with three (3) or more years of high school Spanish. Prerequisite: SPAN 211 or equivalent, with permission from instructor.

SPAN 301: Readings in Spanish, (On Demand) (1). Students read and discuss Spanish language texts chosen by the instructor. Students are encouraged to take this course in conjunction with history courses which deal with topics in the history and culture of Latin America and the Iberian Peninsula. Prerequisite: SPAN 212 or permission from instructor.

SPAN 311: Spanish Grammar/Conversation/Composition, (On Demand) (Minimum of 3 students) (3). Students will learn the necessary grammar in order to compose essays at a level beyond simple paragraphs. Conversations regarding political, cultural, and social issues will be the main focus of class discussions, primarily in the target language. Students will complete course with an intermediate-high to advanced level of proficiency in the Spanish language as defined by the American Council on the Teaching of Foreign Language (ACTFL) Proficiency Guidelines. Recommended for students with four (4) or more years of high school Spanish or for heritage speakers of Spanish. Prerequisite: SPAN 212 or equivalent, with permission from instructor.

SPAN 342: Topics in Spanish Language Studies, (On Demand) (Minimum of 3 students) (3). A Spanish language course for students who have completed SPAN 311. Topics and readings may vary. Recommended for students with four (4) or more years of high school Spanish or heritage speakers of Spanish. Prerequisite: SPAN 311 or equivalent, with permission from instructor.

SPED 321: Survey of Exceptionalities, (F, S) (3). An introductory course examining characteristics, identification criteria, and teaching modifications related to the education of exceptional learners. Fifteen (15) hours of field experience is required.

THTR 131: Introduction to Theatre, (F, S) (3). A broad overview of the history of theatre and dramatic literature as well as an introductory study of acting, designing, and directing. (Students do not participate in the productions.)

THTR 151: Introduction to Acting, (F, S) (3). An introductory level course in acting for the stage. It includes an understanding of acting skills and styles, class exercises in sense memory and character development, improvisation, readings from plays, research into acting theories, and student performances of memorized and rehearsed monologues and scenes.

THTR 180: Theatre Practicum, (F, S) (1). Actual practical experience in preparing production for Union College Theatre. Students must take the practicum levels in numerical sequence; each level is for 1 credit hour.

THTR 252: Voice and Movement (F, odd years) (3). Voice and Movement is part acting class, part public speaking, and part embodied expression. Voice & Movement is geared towards students who want to increase their self-awareness and confidence, as well as their ability to be present/think on their feet.

THTR 280: Theatre Practicum, (F, S) (1). Actual practical experience in preparing production for Union College Theatre. Students must take the practicum levels in numerical sequence; each level is for 1 credit hour.

THTR 301: Directing, (F, Even Years) (3). An upper-level course in directing for the stage. It offers students an overview of significant theatre directors, exercises to practice various directing methods, and the opportunity to direct a scene from a published play. Pre-requisite: THTR 151 OR THTR 131

THTR 304: Devised Theatre, (S, Odd Years) (3). An upper-level course in devised theatre. Students challenge the traditional production hierarchy by creating devised theatre as an ensemble of artists: writers, performers, designers, and/or directors. No pre-requisites

THTR 330: Theatre for Social Change, (S, Even Years). (3). Scholars and practitioners use the term “theatre and social change” to describe a wide range of theater practices that bring professional theater-makers and a range of publics together to create theater, often with the aim of inciting social/political/cultural change. In this course, we will study groups that have had a great impact on “theatre and social change” and use the techniques we learn to create our own theatre for social change production.

THTR 380: Theatre Practicum, (F, S) (1). Actual practical experience in preparing production for Union College Theatre. Students must take the practicum levels in numerical sequence; each level is for 1 credit hour.

THTR 480: Theatre Practicum, (F, S) (1). Actual practical experience in preparing production for Union College Theatre. Students must take the practicum levels in numerical sequence; each level is for 1 credit hour.

UCE 100: Union College Experience, (F, S) (1). The Union College Experience helps incoming freshmen acclimate to campus life and establish valuable connections with faculty, staff, and their cohort. Students will develop the necessary academic skills to ease into their coursework and become successful students. This course will also teach students valuable life skills such as how to manage their time, money, relationships, and social life while maintaining good collegiate academic standing. Students will become familiar with the campus as well as the faculty and staff that will support them throughout their college career.

UCE 102: Union College Experience II, (F, S) (1). The Union College Experience helps incoming freshmen acclimate to campus life and establish valuable connections with faculty, staff, and their cohort. Students will develop the necessary academic skills to ease into their coursework and become successful students. This course will also teach students valuable life skills such as how to manage their time, money, relationships, and social life while maintaining good collegiate academic standing during the spring semester. Students will become familiar with the campus as well as the faculty and staff that will support them throughout their college career. This course will also help prepare students for life outside of school by diving into career exploration and preparation. Pre-requisite UCE 100.

WELL 131: First Aid and Safety Education, (F, S) (3). Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. First aid measures for various injuries and illnesses are discussed and practiced.

WELL 178: Life Choices, (F, S) (Sum) (3). The study of health-related factors enabling intelligent decisions as they relate to the physical, mental, and social health of self, family, and community

WELL 252: Mental Health, (F) (3) (F). The study of mental and emotional health. Emphasis on teaching and content development. Exploration of mental health issues: stress, lifestyle, fulfilment, suicide, and child abuse.

WELL 272: Drugs and Society, (S) (3). The effect of drug use and abuse on the individual and society. Strategies for making intelligent decisions regarding drugs will be discussed. Drugs and the sporting society will also be included. Odd years only.

WELL 275: Foundations of Health Science, (S) (W) (3). This course involves a study of the history, foundational disciplines, and principles that led to the establishment of health education. The role of health education in the present health care system is also studied.

WELL 311: Health Education - K-12, (F) (3). (F) The study of pedagogy and implementation of health-related concepts in the K-12 classroom.

WELL 340: Anatomy & Physiology, (F) (3). This course will examine the organization, structure, and function of the human body with a focus on health and physical activity. Students will explore each body system and understand how they coordinate to maintain homeostasis.

WELL 361: Principles of Nutrition, (F, W, SUM) (3). This course presents the scientific principles of human nutrition. Emphasis will be placed on the health of the individual as related to food and its assimilation in the human body. Nutrient recommendations for growth and maintenance will be examined in both the average and athletic populations.

WELL 461: Nutrition for Special Needs, (S, SUM) (3). This course will focus on the unique nutritional needs of various special populations. Common topics include diabetes, vegan/vegetarian, menopause, pregnancy, eating disorders, overweight/obesity, children, and the elderly.

WELL 475: Critical Areas in Health, (F) (3). (F) The study of health problems and contemporary methods for assessing health disparities. The exploration of literature surrounding health issues.

WELL 482: Safety Education Workshop, (Sum) (3). Accident problems in the home, in the school, at work, and on the highways are discussed with the purpose of influencing students, parents, and those who teach, by preparing them in various areas of safety. Individuals and groups specializing in a variety of safety areas such as the National Safety Council, American Red Cross, State Fire Marshal, Consumer Advocate Office, Homeland Security, Department of Fish and Wildlife, Kentucky Injury Prevention Research Center, Kentucky Cooperative Extension Agency, and Kentucky State Police will be utilized.

WELL 485: Exercise Science Internship, (F, S, Sum) (3-6). Students will locate a discipline appropriate business and obtain approval from the worksite supervisor to complete their supervised internship with. Students will have the opportunity to apply the knowledge and skills learned through course work in a real-world setting. The student will choose either 3 or 6 credits, which will require 100 or 200 hours of supervised worksite experience, respectfully. Prerequisite: permission from instructor.

WELL 495: Independent Study, (F, S) (Sum) (1-3). Independent study for advanced students only. Prerequisite: permission from instructor.

WELL 551: School & Community Health Workshop, (Sum) (3). Reveals the relationship needed between the school and community to promote the total health of the population. Guest speakers are secured from local, district, state, and regional agencies. Activities include field trips to local health, water, and sewage treatment agencies. A wide variety of health-related areas are covered including nutrition, physical fitness, drugs, alcohol, human sexuality, childhood diseases, emotional health, services of health departments, etc.

WELL 582: Safety Education Workshop, (Sum) (3). Accident problems in the home, in the school, at work, and on the highways are discussed with the purpose of influencing students, parents, and those who teach, by preparing them in various areas of safety. Individuals and groups specializing in a variety of safety areas such as the National Safety Council, American Red Cross, State Fire Marshal, Consumer Advocate Office, Homeland Security, Department of Fish and Wildlife, Kentucky Injury Prevention Research Center, Kentucky Cooperative Extension Agency, and Kentucky State Police will be utilized.

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Union College Faculty (Full Time)

Lisa F. Abner: Associate Professor of Nursing

A.D.N., B.S.N., M.S.N. Eastern Kentucky University; D.N.P. University of Kentucky

Fidelis M. Achenjang: Professor of Chemistry

M.Sc. The University of London; Ph.D. University of Wyoming

Bridget J. Bergiel: Assistant Professor of Marketing

BBA., MBA. Mississippi State University

Kathy Blaydes-Walczak: Associate Professor of Psychology

B.A., M.A. Western Kentucky University; Ed.D. Argosy University

Douglas W. Branch: Associate Professor of Athletic Training; Director Athletic Training Program.

B.S. Wingate University; M.S. Marshall University; Dh.S. A. T. Still University

Myrtle M. Brown: Assistant Professor of Nursing

B.S.N., M.S.N. Eastern Kentucky University

Jeff Cawood: Assistant Professor: Sociology

B.A. Eastern Kentucky University; M.A. Morehead State University

Wanda C. Clouse: Assistant Professor of Educational Studies

B.S., M.A. Union College

Shayne D. Confer: Associate Professor of English and Reading

B.A. Indiana University of Pennsylvania; M.A. University of Montana; Ph.D. Duquesne University

Bruce W. Cory: Associate Professor of Spanish and Humanities

B.A., M.A. University of Dayton; M.A. Cleveland State University

Kathleen P. Flynn: Assistant Professor of Psychology and Health

B.S. The State University of New Jersey Rutgers Douglass College; B.H.S. University of Kentucky; M.S., Ed.S. Western Kentucky University; Ed.D. University of the Cumberland

Lindsey M. Frazier: Assistant Professor of Nursing

A.A.S. Somerset Community College; B.S.N., M.S.N. Indiana Wesleyan University

Yukiko Fujimura: Assistant Professor of Music

B.A Wisconsin; M.A., D.A. Ball State University

Donald V. Fuller: Associate Professor of Athletic Training

B.S. University of New Mexico; Ph.D. University of Southern Mississippi; M.S. Indiana State University

Virginia G. Gandy: Associate Professor of Music

B.M.Ed., M.M. Mississippi College; D.M.A. University of South Carolina

Lorraine Gess: Asst Prof Library Science

B.S. Michigan State University; M.S. Clarion University of Pennsylvania

Christopher L. Gibson: Instructor of Health and Wellness

B.S. Union College; M.S. University of the Cumberland

Helen F. Goins: Instructor of Clinical Psychology.

B.S. Union College; M.Ed. Lincoln Memorial University; Ph.D. Union Institute and University

Marisa E. Greer: Provost, Assistant Professor of Nursing

A.S.N, B.S.N., M.S.N., Ed.D. Eastern Kentucky University

Marcia A. Hawkins: President

B.B.A., Ph.D. University of Texas at Arlington; M.S.Ed. Texas Wesleyan University

Lori K. Henderson: Professor of Education

B.A. Hanover College; M.A., Ed.S. Spalding University; Ed.D. University of Kentucky

Amanda Hensley: Instructor of Nursing

A.S., B.S. Lincoln Memorial University; M.S. Chamberlain University

Brenda Diane Hopkins: Associate Professor of Biology

B.A. Carson Newman College; M.S. Tennessee Technology University; Ph.D. Vanderbilt University

Kevin S. Jump: Assistant Professor; Reference & Instruction Librarian

B.S. Union College; M.S.I.S. University of Tennessee

Sunil K. Karna: Assistant Professor of Physics.

B.S. LNM University; M.Sc. Tribhuvan University; M.S. University of Memphis; Ph.D. University of Alabama

Jayme Kilburn: Assistant Professor of Theatre

B.A. University of California Santa Barbara; M.A. New York University; M.A., Ph.D. Cornell University

Kyung H. Lee: Associate Professor of Management

B.S. University of Arizona; M.S. Capitol Technology University; D.B.A. Argosy University

Christine A. Marley-Frederick: Professor of Communication

B.S., M.A. Ball State University; Ph.D. University of Oklahoma

Timothy McKay: Assistant Professor of Health and Physical Education

B.S. Union College; M.S. University of Louisville

Libby Megna: Assistant Professor of Biology

B.S., M.S., Andrews University

James A. Messer: Assistant Professor of Recreation Management

B.A. Union College; M.A. University of Louisville; M.S. Eastern Kentucky University

Rebecca Mills: Director of Clinical Placement and Student Teaching

B.S., M.S. Union College; Rank 1 Eastern Kentucky University

Jill Musgrave: Assistant Professor of Criminal Justice

B.A., M.A., Ph. D, Indiana State University

Carolyn S. Payne: Professor of Accounting

B.S. Union College; M.B.A. Morehead State University; D.B.A. Nova Southeastern University

Joseph W. Pearson: Assistant Professor of History

B.A. University of Kentucky; M.A., Ph.D. University of Alabama

David M. Powell: Assistant Professor of English

B.A. Henderson State University; J.D. Washington and Lee University; Ph.D. University of Georgia

Joy M. Ramsey: Associate Professor of Graduate Education

B.S., Ed.S., Ed.D. East Tennessee State University; M.A. Union College

Michael G. L. Ramsey: Professor of History

B.A. University of Tennessee; M.A., Ph.D. University of Virginia

Melinda S. Rice: Dean of General Education and Program Development

B.A. Warren Wilson College; Ph.D. Northwestern University

Stella Rostkowski: Associate Professor of Business

B.A, M.S., Ph.D., Dr.PH Capella University

Madeleine Schense: Reference, Instruction, and Outreach Librarian

B.A. Hamline University, M.S. University of Illinois at Urbana-Champaign

Russell B. Sisson: Professor of Religion

B.A. Rhodes College; M.Div. Yale University; Ph.D. Emory University

Jimmy D. Smith: Professor of English

B.A. University of South Carolina at Spartanburg; M.A. Hollins College; Ph.D. University of South Carolina

Mary B. Spurlock: Assistant Professor of English

B.S., M.A. Union College

Keith M. Stafford: Associate Professor of Mathematics

B.S. University of Wisconsin-Stout Menomonie; M.S., Ph.D. University of Wisconsin-Milwaukee

Christy L. Sulfridge: Assistant Professor of English
B.A. Asbury University; M.F.A. Regent University

Ilie P. Vasilescu: *Professor of Psychology*
B.S., Ph.D. University of Bucharest

Karl R. Wallhausser: Associate Professor of English
B.A. Berea College; M.A. University of Kentucky

Stephen Wechman: Assistant Professor of Biology
B.S. Georgetown College; M.S., Ph.D. University of Louisville

David C. Williams: Associate Professor of Business
B.A. Emory & Henry College; M.B.A. Vanderbilt University; D.B.A. University of Phoenix

Rachel Williams: Asst. Professor of Media Communications
B.S. Union College; M.S. Union College

Ryan Winders: Assistant Professor of Education
B.A., M.A. University of Kentucky; Ed.S. University of the Cumberlands; Ed.D. Morehead State University

Karen Wynn: Instructor of Nursing: Lab/Simulation Director
A.D.N. Lincoln Memorial University; B.S. Ohio University; M.S.N. Indiana Wesleyan University

Taiping Ye: Assistant Professor of Mathematics
B.S. Hunan Normal University; M.S. Zhongshan University, M.S., Ph.D., University of Connecticut

Faculty Emeriti

Kenneth N. Alford: Associate Professor Emeritus of Mathematics
B.S. Texas A&M University; M.S. New Mexico Highlands University

Paula J. Allen: Professor Emeritus of Business
B.S. Cumberland College; M.A. Union College; D.B.A. University of Sarasota

Martin R. Botkin: Professor Emeritus of Recreation Management
B.S., M.S., Ph.D. North Carolina State University

Clevis D. Carter: Associate Professor Emeritus of Physical Science
B.A. Union College; M.A. George Peabody College, University of Tennessee, University of Kentucky, Ohio State University

Daniel J. Covington: Professor Emeritus of Biology
B.S., M.S., Tulane University; Ph.D., Texas A & M University

L. James Cox: Professor Emeritus of Social Work and Sociology
B.A. Cumberland College; M.S.S.W. Raymond A. Kent School of Social Work University of Louisville

Constance S. Danner: Professor Emeritus of English
B.A., M.A., Ph.D. University of Nebraska

Dianne R. Ferris: Professor Emeritus of English
B.A. University of Minnesota; M.A., Ph.D. University of Washington

James R. Garrett: Professor Emeritus of English
B.S. University of Alabama; B.S., M.A. University of Montevallo; Ph.D. Auburn University

Melissa M. Garrett: Associate Professor Emeritus of Library Science
B.S. University of Montevallo; M.L.S. University of Alabama; M.A. Union College

John Gould: Associate Professor of Business
B.S. Louisiana State University; M.A. Sonoma State University; D.A. George Mason University

Arthur H. Hafner: Professor Emeritus of Education (Deceased)
A.A. Green Mountain College; Ph.B. Muhlenberg College; M.A. Lehigh University; Ed.D. Teachers College Columbia University

Ella K. Hensley: Professor Emeritus of Economics
B.A., M.A., M.A.M.R.D., Ph.D. University of Florida

Mary A. Lay: Associate Professor Emeritus of Education
B.S., M.S. University of Kentucky

Thomas J. McFarland: Professor Emeritus of Music
B.M. Union College; M.M. University of Akron; Ph.D. Kent State University

Paul S. Moore: Professor Emeritus of Health and Physical Education
B.A. Union College; M.S. University of Tennessee; Ed.D. University of Alabama

Donald R. Musselman: Associate Professor Emeritus of Graduate Education
A.A. Monterey Peninsula College; B.S. East Tennessee State University; M.E., Ed.D. Virginia Polytechnic Institute and State University

Rebecca A. Pettys: Professor Emeritus of Theatre
B.A. Berea College; M.A. Northwestern University; Ph.D. Indiana University

Betty Stroud: Professor Emeritus of Music (Deceased)
B.S. Northeast Louisiana State University; M.M. Louisiana State University; Ed.D. University of Illinois

John C. Taylor: Professor Emeritus of History
B.A. Juniata College; J.D. Duke University; M.A., Ph.D. Pennsylvania State University

Andelys Wood: Professor Emeritus of English
A.B. Middlebury College; Ph.D. Indiana University

President Emeritus

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Rollin Layton	Assistant Baseball Coach
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