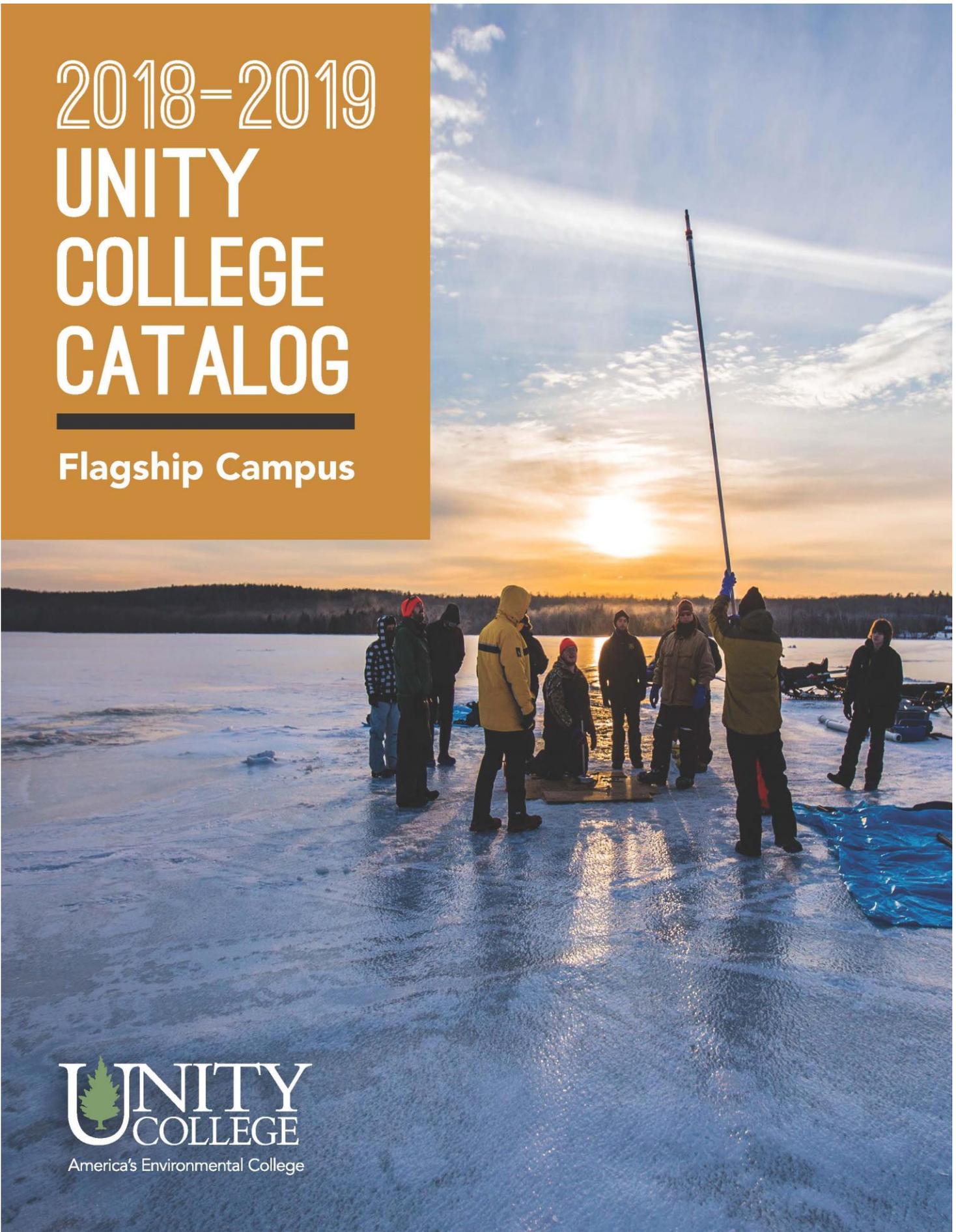


2018-2019 UNITY COLLEGE CATALOG

Flagship Campus



 **UNITY**
COLLEGE
America's Environmental College

Financial Aid	Financial Aid Office Founders Hall North	509-7235
Health and Counseling Services	Harrison Aldrich Wellness Center	509-7126
Housing and Residence Life	Director of Residence Life TerraHaus	509-7284
Information Technology	Service Desk Quimby Library	509-7110
Library Resources	Dorothy Webb Quimby Library	509-7110
Media Relations	Associate Director of Media Relations UCCPA	509-7292
NOVA/Outdoor Adventure Center	Director of Outdoor Adventure Center John Burwell Building	509-7293
Student Orientation	Student Life Office TerraHaus	509-7236
Parking	Public Safety Office Constable Hall	509-7232
Peer Education	Collaborative Learning Center	509-7220
Public Safety	Constable Hall	509-7232
Registrar	Registrar Founders Hall North	509-7219
Student Accounts	Director of Student Accounts Founders Hall North	509-7261
Student Activities	Student Activities Director TerraHaus	509-7285
Student Life	Dean of Students TerraHaus	509-7236
Student Government	Student Government Office TerraHaus	509-7246
Summer Programs and Conferences	Events Manager Founders Hall North	509-7121
Sustainability Office	Chief Sustainability Officer Founders Hall North	509-7295
Transfer Students	Admissions Office Allison M. Hall Welcome Center	509-7119

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Our Mission

Through the framework of sustainability science, Unity College provides a liberal arts education that emphasizes the environment and natural resources. Through experiential and collaborative learning, our graduates emerge as responsible citizens, environmental stewards, and visionary leaders.

Our Focus

Unity College prepares the next generation of environmental professionals and leaders to successfully face real-world challenges. With 16 environmentally focused majors, our liberal arts curriculum is built upon a unique framework of sustainability science—the first of its kind in the nation.

Our distinctive approach to learning provides our students with an exceptional, high-quality education, enabling them to drive real change with leading-edge knowledge and expertise.

Our unique location provides extraordinary opportunities for hands-on learning and research. From 225 wooded acres of farmland overlooking Unity Pond in the tranquil village of Unity, Maine, we prepare each of our students to make a mark on the world.

Our active and engaged students and outstanding, forward-thinking faculty make true community-based learning possible.

Unity College is accredited by the New England Commission of Higher Education (formerly the Commission on Institutions of Higher Education of the New England Association of Schools and Colleges, Inc.).

Academic Resources

Academic Advising

[Visit Collaborative Learning Center](#)

Academic Advisors are professional staff and/or faculty members who partner with students to help them plan and organize their academic experience in accordance with their present and future goals. Your advisor will meet with you regularly to help you get the most out of your college career by helping you plan your academic program, select courses, and consider internships and off-campus study. Your advisor will also help you troubleshoot academic-related issues that arise and refer you to appropriate campus and community resources. If you are a new freshman or transfer student, your academic advisor will be your Unity Experience (or Unity Transfer Experience) instructor for your first semester. In addition to your advisor, there are other resources on campus to help you plan your academic coursework: faculty experts in your degree program, resident advisors, the Collaborative Learning Center, Career Services, and upper-class students. Students may change advisors after their first semester by filling out a change of advisor form, which is available from the Registrar's Office. Academic Advisors focus in specific degree fields in order to best serve students.

Academic Calendar

[Visit Academic Calendar](#)

The calendar is composed of two 15-week sessions, followed by a three-week session in May. Students may or may not choose to take courses in the three-week session, but some courses which are required for some programs might be offered only then. The drop period for May session will be during the first two days of classes in that session. Some courses are taught in mini terms of 7 weeks within the fall and spring semesters.

Academic Program

Unity College prepares students for world citizenship and environmental stewardship. The Unity College education includes broad-based general learning as well as in-depth professional training. Unity graduates leave with well-developed skills in writing, speaking, mathematics, and computer science; with breadth and depth in areas of general knowledge and environmental issues; with mature, independent thinking skills; and with an appreciation of our cultural heritage.

Campus Store

[Visit Campus Store](#)

The campus store is conveniently located adjacent to Wyman Commons. In addition to school supplies, you can purchase snack foods and drinks, general interest books, computer supplies, and Unity College memorabilia. Campus community members can also post mail and packages via USPS, UPS and FedEx from the campus store.

Career Services and Internships

[Visit Career Services and Internships](#)

The Career Services and Internships office educates students about career development and job search strategies and coordinates all credit-bearing internships. The career development process begins as soon as a student enrolls at Unity College and continues throughout the college experience. Career Services provides one-on-one counseling, educational outreach programs, and co-curricular programs, and hosts a variety of events throughout the year. Services are available to both students and alumni. Students may also elect to enroll in a 1-credit professional development course. The office also provides resources for studying abroad and entering graduate school and helps facilitate community-based learning projects.

Certification and Training Center

[Visit the Certification and Training Center](#)

The Certification and Training Center (CTC) offers courses for students that are seeking professional certifications. These courses are valuable for all majors and include Wilderness First Responder, ACA Canoeing, Leave No Trace Trainer, and Maine Guide Prep courses. The CTC programs cultivate and provide opportunities to discover and learn through personal growth, building social connections, professional development, and acquisition of technical skills. The certifications will build on the students experience and be valuable to their resume and educational experience.

Collaborative Learning Center

[Visit Collaborative Learning Center](#)

Located in the heart of campus, the Collaborative Learning Center (CLC) is a dynamic, well-respected one-stop shop that provides a variety of free academic support services to students and faculty, including highly

individualized academic advising and mentoring, peer tutoring, writing consultations, and learning accommodations for students diagnosed with learning and accessibility differences. Our **mission** is to **assist** and **empower** students to achieve academic success. The staff of the CLC includes a Dean of Academic Support, a professional ADA Coordinator/Learning Specialist, Student Success Coaches, and peer educators.

The Center's services are designed to promote academic success across all course content areas as well as math and writing. Academic skill improvement is addressed through peer mentoring and academic seminars covering topics from time-management to conquering test anxiety. Students who take advantage of the support offered by the CLC improve their study habits, develop more effective learning strategies, and are more successful in their coursework.

The CLC offers the following programs and services:

- **Tutoring:** Faculty members and trained peer educators are available in the CLC to help students with their coursework. Tutors assist students in completing assignments, studying, understanding concepts, and developing improved study skills.
- **Writing Consultations:** The CLC offers writing support to all students at any stage of the writing process. We practice a collaborative approach to sessions, where writers and consultants engage in one-on-one conversations about writing—conversations that focus on shared knowledge and expertise, as opposed to hierarchical instruction that treats writing tutoring sessions as remediation. We offer a the following types of writing support: final draft paper reading, grammar check, group paper reading, paper revision, documentation check, paper-in-progress reading, and paper-in-progress brainstorming.
- **Academic Advising:** The CLC promotes academic excellence and supports students' success through Academic Advising. CLC Academic Advisors are professional staff members who partner with students and faculty members to help students plan and organize your academic experience.
- **Peer Education Program (PEP):** The Peer Education Program consists of trained students, specializing as peer tutors, peer mentors, and peer advisors, who are committed to student success.
- **Academic Mentoring (amp):** Students who want additional academic support or students who are experiencing academic difficulty can take advantage of **amp**, the CLC's academic mentoring program. One-on-one mentoring helps students establish a strong connection within the college, one that serves to provide holistic personal support and guidance in pursuit of academic success.
- **Academic Skills Workshops:** Throughout the academic year, the Collaborative Learning Center conducts after- hours workshops designed to help students learn techniques geared toward maximizing their success while at Unity. Topics include note-taking, time management, listening to and remembering classroom material, reading textbooks, strategies for taking examinations, and more!
- **Assistive Technology:** The CLC has Kurzweil 3000 and Dragon Naturally Speaking programs installed on the Center's computers to assist students with print-related disabilities. Assistive technology helps individuals with learning differences level the educational field and bridge the gap between their reading and writing needs and their current skills. Assistance is provided to help students use the technology.
- **ACCESS Unity:** The ACCESS Unity Coordinator works with students who have documented learning differences to get the most out of their college experience. The ACCESS Unity Coordinator works one-on-one with eligible students to orient them to the College's support services and determine the appropriate academic and course accommodations most suitable for each student's specific needs.
- **ProctorCLC:** Test proctoring Services provided by trained CLC staff, including separate rooms for students needing testing accommodations.

Dorothy Webb Quimby Library

[Visit Library](#)

Quimby Library provides a quiet place to study and focus on coursework, to research topics of interest, or to get technology support. The library staff is available to support a student's information resource and technical support needs by providing a variety of services, such as providing research assistance or help connecting devices to the network.

Students have access to thousands of print and electronic resources that are selected primarily to support the college's curriculum. The library provides access to high quality print materials as well as scholarly and special-

interest journals through a variety of research databases and digitized local collections. The library is a member of several consortia, which provides the library with substantial interlibrary loan capabilities. DVDs, magazines, fiction, and children's collections are also available for use by the campus and local communities.

In addition to books, journals, and databases, Quimby Library has a variety of equipment for students to borrow. The equipment, such as GPS units, cameras and camcorders, laptops and projectors, are available to support students in their courses. Computers, located throughout the library, offer specialized software needed for class assignments.

Articulation Agreements and Partnerships

High School Articulations

The following high schools have articulation agreement with Unity College due to their specialized programs listed with each school. To be eligible, the graduating high school senior must apply to Unity College, be accepted, complete all admissions requirement and begin attending Unity College in the fall semester immediately following their high school graduation. In addition, the student must submit evidence of completing the program by providing a certificate of completion or letter signed by the program instructor and their high school transcript. They must have a GPA of B (3.0) or higher in the program and an overall high school GPA of 2.50 or higher.

For more information you may contact the Unity College Registrar's Office.

Unity College has articulation agreements with the following high schools:

Bristol County Agricultural High School Dighton, MA. Small Animal Science Program	Unity College will award 6 credit hours of 1000 level electives.
Essex Technical High School Danvers, MA Natural Resource Management Program	Unity College will award 6 credit hours of 1000 level electives.
Greater New Bedford Regional Vocational Technical High School New Bedford, MA Environmental Science & Technology Career Major	Unity College will award 6 credit hours of 1000 level electives.

College Articulations

Unity College has articulation agreement with the following colleges. This means that students in certain programs at these colleges will be admitted into a specific bachelor degree at Unity College.

Students must complete part 1 of the Unity College application, an official transcript from the college displaying the degree and major and one letter of recommendation. Students must enroll at Unity College the semester immediately following their graduation from the college.

Students will be accepted at the junior level and can expect to complete their bachelor requirements within 4 semesters. All college level credits taken at the community college will be accepted by Unity College. They must complete 60 credit hours and the prescribed courses which can be done within four semesters. If a student does not have the foundation or skill to enroll in an upper level course because he/she has not taken the appropriate introductory courses, the student will be required to take any necessary prerequisite(s).

Finger Lakes Community College Canandaigua, New York AAS, Natural Resources Conservation: Law Enforcement	Will be admitted to the bachelor of science program in Conservation Law Enforcement or Parks and Forest Resources
Finger Lakes Community College Canandaigua, New York AAS, Fish and Wildlife Technology	Will be admitted to the bachelor of science program in Wildlife Fisheries Management
Greenfield Community College, Greenfield, Massachusetts AA, Renewable Energy/Energy Efficiency	Will be admitted to the bachelor of science program in Sustainable Energy Management
Greenfield Community College Greenfield, Massachusetts AA, Farm and Food Systems	Will be admitted to the bachelor of science program in Sustainable Agriculture
Greenfield Community College, Greenfield, Massachusetts AA, Environmental Science	Will be admitted to the bachelor of science program in Biology or Earth and Environmental Science
North Shore Community College Danvers, Massachusetts AA, Environmental Studies	Will be admitted to the bachelor of science program in Biology or Earth and Environmental Science
North Shore Community College Danvers, Massachusetts AAS, Environmental Horticulture	Will be admitted to the bachelor of science program in Sustainable Agriculture
Raritan Valley Community College Branchburg, New Jersey AS, Science and Mathematics with a Biology option	Will be admitted to the bachelor of science program in Biology, Sustainable Energy Management, Marine Biology, or Earth and Environmental Science

Thompkins-Cortland Community College Dryden, New York AAS, Sustainable Farming and Food Systems	Will be admitted to the bachelor of science program in Sustainable Agriculture
York County Community College Wells, Maine AAS, Criminal Justice degree	Will be admitted to the bachelor of science program in Conservation Law Enforcement

Partnerships

Unity College Flagship/Unity College Distance Education

Unity College Flagship graduates are guaranteed acceptance into a Unity College Distance Education Master's program if they graduate with a minimum of a 3.0 GPA and are in good standing. An admissions essay and resume will be waived for all Unity College graduate applicants. Unity College Distance Education offers Master's degrees in Environmental Studies and Sustainability, Sustainable Natural Resource Management, Conservation Law Enforcement, Environmental GIScience, and a Sustainable MBA. These programs are 100% online, accelerated, and focused on professional skill development for career advancement. For more information contact Unity College Distance Education.

Unity College/Chatham University

Unity College has an articulation agreement with Chatham's School of Sustainability and the Environment (SSE) in Pittsburgh. This agreement covers students from Unity College seeking to gain entry to the Master of Sustainability program of Chatham's SSE. Chatham University will guarantee an interview from the Master of Sustainability program for each qualified applicant from Unity College. Each qualified applicant must have a cumulative GPA of at least 3.3 and submit all application materials before the January deadline. Admissions materials include: three letters of recommendation from faculty or direct work supervisors; a one- to two-page letter explaining the motivation to join a trans-disciplinary sustainability program; a copy of their most recent transcript; and a completed application form.

Unity College/Clarkson University

Unity College has articulation agreements in conjunction with Clarkson University's Bachelor of Science Environmental Engineering, Master of Science in Environmental Science and Engineering, and Master of Science in Environmental Politics and Governance programs. Students must have a minimum grade point average of 3.25 and meet program specific provisions to be considered for acceptance into Clarkson University in conjunction with the articulation agreements. For more information, students are welcome to contact the Unity College Registrar's Office.

Unity College/Maine Criminal Justice Academy

In partnership with the Maine Criminal Justice Academy, Unity College offers Conservation Law Enforcement program students interested in pursuing state or local law enforcement careers the opportunity to attend the eighteen-week Basic Law Enforcement Training Program at the Academy as part of their academic program. Students who successfully complete the Basic Law Enforcement Training Program (BLETP) at the Maine Criminal Justice Academy will receive 15 credits from Unity College. Successful completion of the BLETP is considered equivalent to completing all of the following courses: CL 3224 Crime Scene and Investigative Techniques, CL 4503 Conservation Law Capstone, CL 4413 Law Enforcement Leadership, and a 5-credit elective. If a student has already completed an otherwise waived course, the BLETP credits will count as elective credits at the 3000 level. Students who are interested in attending the Basic Law Enforcement Training Program while enrolled at Unity College should meet with a Conservation Law Enforcement faculty member during their junior year for further information regarding requirements, costs, and eligibility. Please note that students who attend BLETP are not eligible to receive academic credit for completing the National Park Service Seasonal Law Enforcement Training Program.

Unity College/National Park Service Seasonal Law Enforcement Training Program

Unity College students enrolled in the Conservation Law Enforcement program or the Parks and Forest Resource program who are interested in pursuing federal conservation law enforcement careers have the opportunity to attend the National Park Service Seasonal Law Enforcement Training Program (SLETP) as part of their academic program. Students who successfully complete the SLETP will receive 15 credits from Unity College. For Conservation Law Enforcement program students, successful completion of the SLETP is considered equivalent to completing all of the following courses: CL 3224 Crime Scene and Investigative Techniques, CL 4503 Conservation Law Capstone, CL 4413 Law Enforcement Leadership, and a 5-credit elective. If a student has already completed, or is not required to complete an otherwise waived course, the SLETP credits will count as elective credits at the 3000 level. Successful graduates of the SLETP receive a federal Level II law enforcement officer certificate, the requirement to attain a seasonal law enforcement ranger position with the National Park Service. The program is accredited through the Federal Law Enforcement Training Center as part of the National Park Service seasonal

ranger training program. Students who are interested in attending the SLETP while enrolled at Unity College should meet with a Conservation Law Enforcement faculty member before their junior year for further information regarding requirements, costs, and eligibility. Please note that students who attend SLETP are not eligible to receive academic credit for completing the Maine Criminal Justice Academy Basic Law Enforcement Training Program.

Unity College/National Outdoor Leadership School

Unity College has an articulation agreement with the National Outdoor Leadership School (NOLS) whereby NOLS courses may be transferred for academic credit providing the student receives academic credit through another college or university. The Unity College and the National Outdoor Leadership School, Lander, Wyoming relationship exists to provide education services and opportunities. NOLS courses are a valuable way to learn outdoor skills and develop leadership. NOLS will give Unity College students preference in admission and intern selection. Students must register with the Unity College Registrar's Office prior to attending the National Outdoor Leadership School to receive course credit.

Unity College/Vermont Law School

The College has an articulation agreement with Vermont's Law School for students interested in pursuing their Juris Doctor (JD), Master of Environmental Law Policy (MELP) or Joint JD/MELP. Unity students interested in attending Vermont Law School must meet certain criteria including: completing all requirements for Unity bachelor's degree program; completing a minimum of 60 credits towards a bachelor's degree in residence at Unity College; have a minimum grade point average that meet or exceeds the average GPA of the first-year JD or MELP class in residence at Vermont Law School at the time of the student's application; a current LSAT score that meets or exceeds the average LSAT score of the first-year JD class in residence at Vermont Law School at the time of application (LSAT scores are not needed for MELP applicants); two positive letters from Unity faculty recommending the student; and there must be no evidence of character or fitness concerns that would generally disqualify the applicant from admission into Vermont Law School.

Academic Information and Regulations

Absence

Once a period of enrollment begins, if a student needs to be away from campus for more than three consecutive class days based on either a personal or medical issue, the Registrar's Office should be notified immediately so that an official notification can be sent to all of the student's instructors and their advisor. The exact reasons need not be revealed to the Registrar's Office if there is a confidentiality issue.

Academic Freedom

Academic freedom is essential to the fulfillment of the educational purposes of the college. Encouragement of an atmosphere of confidence and freedom is balanced by an expectation of responsible judgment as it relates to respect for the individual and for the institution. Further, there is an obligation when expressing personal opinion to indicate it is not necessarily representative of the institution's position. There shall be freedom from any censorship, threat, restraint, or discipline by the college with regard to the pursuit of truth in the performance of teaching, research, publishing, or public service. This position is in keeping with the Statement of Academic Freedom and Tenure as published in 1940 and revised in 1990 by the American Association of University Professors (AAUP).

Add/Drop

During the first six school days (eight calendar days) of the semester, students may add or drop courses for the 15-week session through the student portal. Students should meet with their advisor before adding or dropping a course. Reductions below 12 credit hours during the six add/drop days will result in an appropriate tuition charge and financial aid reduction. The drop period for the three-week session will be during the first two days of classes.

Advanced Standing

Students may qualify for advanced standing through several types of examinations:

- **Advanced Placement**
This is a program offered by the College Entrance Examination Board to allow highly motivated students advanced entry by means of placement tests. Unity College allows academic credit for work graded 3 or higher, with the exception on Biology which must be graded at a score of 4 or higher, by the College Board. High school students should consult their guidance counselors for details. Advanced Placement credits are subject to transfer credit limitations.
- **The College Level Examination Program (CLEP)**
Sponsored by the College Entrance Examination Board, CLEP, is a nationally recognized program of credit by examination. Unity will award a maximum of 30 credit hours for CLEP examinations in specific areas. CLEP credits are subject to transfer credit limitations. CLEP examinations are administered monthly throughout the calendar year. Lists of times and examinations are available by visiting www.clep.org or by writing:
College Level Examination Program
888 Seventh Avenue
New York, New York 10019
- **International Baccalaureate**
Unity College accepts credits from the International Baccalaureate Diploma Programme for courses graded with a 5 or higher if applicable to the student's major at Unity College. International Baccalaureate credits are subject to transfer credit limitations.
- **Unity College Designated Examination for Credit (UCDEC)**
Unity's own test-out program allows matriculated students to petition a faculty member to take an exam for credit in one of the courses below based upon past experience or self-directed previous study. The faculty member has to agree to give the exam for credit. The faculty member signing a UCDEC petition must be one who is currently or has previously taught that course. Students currently or previously enrolled in a course may not test out of that class. Students may attempt an exam for credit in an individual course only once. UCDEC credits are subject to transfer credit limitations.

To gain credit, a student must submit the UCDEC petition, signed by the cooperating instructor and the Dean, and the Registrar's office at least 48 hours before the exam is scheduled to be given. A student must receive a minimum score of 70% to pass the exam and receive credit. A fee of \$100 will be billed to the student's account for the UCDEC.

Upon successful completion of the UCDEC, the student is awarded credit for the course. UCDEC credits are granted on a Satisfactory (S)/Unsatisfactory (U) basis only, and do not affect a student's grade point average.

The courses approved for UCDEC are:

AE 1012 Rock Climbing	PF 1023 Interp. Of Natural and Cultural Heritage
AE 1072 Winter Pursuits Level I	PY 1013 Introduction to Psychology
BI 1114 Biology: Diversity of Life	SA 3363 Soil Fertility
CL 1013 Intro to Criminal Law Enforcement	WF 2003 Animal Training
MA 2243 Elementary Statistics	

Attendance Policy

Unity College does not allow students to "sit in" on a class for no credit. Until a student is officially enrolled in a course, they are not permitted to attend class, submit assignments, or take tests. Students who wish to audit a course must follow the audit process and requirements (See "Auditing a Course"). Students who are not officially registered for a course or do not appear on the course roster after the end of the add/drop period should be referred to the Registrar's office for documentation based on their circumstance. Special permission may be obtained for prospective students or the public to sit in on an individual class meeting. Please contact the Registrar's Office for more information.

Attendance in Classes

Students are expected to be on campus and attending classes on the first day of the semester. Students not in attendance on the first day are not excused from classes. Students are also expected to attend all classes scheduled for each course in which they are enrolled.

Auditing a Course

A regularly enrolled student may audit the lecture portion of any course with written permission from the instructor and one payment of a fee of \$50 per credit, assessed separately from regular tuition fees. Laboratories, studios, and outdoor skills courses are specifically excluded from audit. The course thus attended will be entered on the student's transcript with the notation "Audit" No grade will be assigned.

The instructor's sole responsibility will be to certify the student's attendance. The student will be responsible for ensuring that the instructor is aware of his/her attendance at each class session. Taking examinations and turning in homework, papers, and other exercises to be graded are optional at the instructor's discretion.

If the student later decides to obtain credit in the course audited, this can be done only by enrollment in and completion of the full requirements of the course, not via the Unity College Designed Examination for Credit. Auditing is defined as follows: students may attend the lectures of the course and perform as much of the assigned course work as they wish.

Catalog Requirements

Unity College views the catalog as the primary contract between the college and the student. Students must follow the graduation requirements from the catalog which was in effect at the time of their matriculation, or students may choose to fulfill the requirements in any subsequent catalog, provided they were enrolled during that academic year.

In either case, the catalog is to be considered in its entirety; students may not fulfill part of their requirements from one catalog and another part from another catalog. Unity College reserves the right to change any of the statements made in the catalog by reasonable notice in a supplement or replacement publication.

Commencement Ceremony Participation

Unity College celebrates Commencement with an official ceremony each May. The following students are invited to participate in the ceremony:

- Students who have met all academic requirements and received their diploma at the end of the preceding fall semester. Fall graduates may also participate in a smaller December Commencement ceremony.
- Students who will meet all graduation requirements set forth by Unity College at the conclusion of the spring semester.
- Students who are within 6 credits of meeting all of the graduation requirements set forth by Unity College.

There are two ways to request to participate in the May Commencement ceremony:

1. Students who have met all graduation requirements set forth by Unity College:
 - Must have a degree audit completed by the Registrar's office.
 - Must submit an Application for Degree by the February 15th deadline.
 - Will be billed a \$100 fee.
2. Students who are within 6 credits of meeting the graduation requirements and would like to request to participate in Commencement:
 - Must submit a Request to Participate form by the designated deadlines: September 15th for December Commencement; February 15th for May Commencement. Included with the request must be an academic plan to complete the remaining requirements. Before a decision for approval can be made, the Request to Participate form and academic plan must be submitted to the Registrar's Office.
 - Will be billed a \$100 fee.
 - May participate in a Commencement ceremony only once. You may not participate again after completing all of your requirements.
 - A student's name will appear in the Commencement program the year that they participate in Commencement only. Students who have not completed all graduation requirements are not eligible to receive awards associated with Commencement.
 - It will be the student's responsibility to complete the outstanding degree requirements and submit proof of completion to the Unity College Registrar's Office. Once the completion of requirements has been verified, a diploma will be issued at the next available conferral opportunity (December or May). The diploma will be mailed to the student within six weeks of their conferral date.
 - Students who plan to earn the outstanding requirements at an institution other than Unity College must have their coursework preapproved by the Unity College Registrar's Office. It is the student's responsibility to have official transcripts sent directly to the Registrar's Office at the conclusion of the coursework to confirm the receipt of credits.

Community Associate Program

Residents of the state of Maine may take any scheduled course offered by Unity College for a fee of \$100, plus any fees associated with the course, on a space-available basis. They receive no college credit. This program is designed to be for personal enrichment. Community Associate students are limited to one course per semester and may not participate in laboratories of a course or attend field trips to off-campus sites. Community Associates are not permitted to enroll in travel courses. Instructors of courses are not obligated to grade papers, projects, or give feedback to these students on their work in the course.

Completion Rate

Federal regulations require the reporting of 4 and 6 year cohort completion rates for all students. The 4 and 6 year completion rates for full-time, first-time bachelor's degree-seeking undergraduate students who entered Unity College in the fall of 2011 were 53 percent and 66 percent, respectively, as of August 31, 2017. Federal reporting does not include students who transfer into Unity College as part of federal completion rates.

Course Levels

Courses numbered in the 1000s are introductory. Courses numbered in the 2000s are intended for students who are sophomores or above. Courses numbered in the 3000s are intended for juniors and seniors, and courses numbered in the 4000s are generally intended for students specializing in a given academic area. The prerequisites listed for each course will give students further guidance as to when you should take that course in your academic program.

Lower-division courses (1000 and 2000 level) generally focus on foundational theories, concepts, perspectives, principles, methods, and procedures of critical thinking in order to provide a broad basis for more advanced courses. The primary intent of lower-division coursework is to equip students with the general education needed for advanced study, to expose students to the breadth of different fields of study, and to provide a foundation for specialized upper-division coursework. Such courses have one or more of the following purposes:

- To acquaint students with the breadth of (inter)disciplinary fields in the arts, humanities, social sciences, life sciences and physical sciences, and to the historical and contemporary assumptions and practices of professional fields.
- To introduce essential skills of literacy (e.g., information gathering, reading, and writing), language, (e.g., oral communication and language and culture other than English), mathematics, and technology sciences to prepare for continuing work in any field of higher education.
- To lay the foundation for upper-division coursework and to begin development of analytical thinking and theoretical application.

Upper-division courses (3000 and 4000 level) are in-depth, specialized, advanced courses which emphasize problem-solving, analytical thinking skills, and theoretical applications. These courses often build on the foundation provided by the skills and knowledge of lower-division education. Upper-division courses may require the student to synthesize topics from a variety of sources. Upper-division courses may also require greater responsibility, or independence on the part of the student. Thus, many intermediate and all advanced baccalaureate courses in a field of study are properly located in the upper-division. In addition, disciplines that depend heavily on prerequisites or the body of knowledge of lower-division education may properly be comprised primarily of upper-division courses. Such courses have one or more of the following purposes:

- The in-depth study or application of theories and methods and the understanding of their scope and limitations.
- The refinement of essential skills and interpretation associated with the baccalaureate.
- The development of specific intellectual and professional skills designed to lead to post-baccalaureate employment, graduate study, or professional school.

Course Load

Students enrolled in at least 12 credits in a semester are considered full time by the College. Students who wish to register for more than 16 credits will be billed the full-time tuition rate, with an additional fee per credit for all credits over 16. The maximum load in a semester is limited to 18 credit hours, with no more than three laboratory or workshop courses. All exceptions to a maximum load must be approved by the Registrar.

Credit Hour

Unity College's credit hour is a semester hour, the standard measure of progress toward a degree at most institutions. For most standard lecture courses, it represents 50 minutes of class time each week of the semester and two hours of out of class work. The class time, out of class work, and credits will vary, however, for other types of courses, such as laboratory sciences, studio arts, and field-oriented courses. For further information on course credit hours, please contact the Registrar.

Diplomas

• Application for Degree

There are two dates each year when degrees are conferred: the last week in December and in May. The deadline for submitting an Application for Degree or the Request to Participate in Graduation is September 15th for December graduation and February 15th for May graduation. Upon presentation of either application in the Registrar's office, students will be billed a \$100 fee. Diplomas are not handed out at the Commencement ceremony. Processing completion of degree requirements may take up to 30 days. Diplomas will be mailed once

the academic records are certified and all financial obligations to the College have been resolved.

- **Replacement Copies**

Graduates may request a replacement diploma if their original diploma has been lost or destroyed. Replacement diplomas shall carry all information contained on the original except that all signatories will be current administrators. Graduates requesting a replacement diploma should allow for 4-6 weeks for processing.

- **Unclaimed Diplomas**

Unclaimed, undeliverable or withheld diplomas are retained in the Registrar's Office for a period of five years after which they may be destroyed. Graduates wishing to replace an unclaimed, destroyed diploma must request a replacement diploma as described above.

Directed Study

Under exceptional circumstances, students may pursue the subject matter of a regular course in the College course catalog during a term when the course is not being offered. The contact hours and assignments should be comparable to those of the regularly scheduled class, unless other arrangements are approved by the Dean. All directed studies must be approved by the appropriate Dean.

Final Examination Period

Each semester includes three days scheduled for final exams. All final examinations must be given during the scheduled time during the examination period. Examination schedules are posted before the beginning of each semester on the college's website. Students with three or more examinations on one day may petition the Registrar to reschedule one examination.

Grading Policy

Mid-semester grades are issued in the seventh week of the semester. These grades are for student information only, and are not entered on the transcript. Final grades, once posted, become part of the official academic record.

The grading system used at Unity College follows:

Grade	Grade Point	Explanation
A	4.0	Excellent
B	3.0	Good
C	2.0	Satisfactory
D	1.0	Poor, but passing
F	0.0	No credit. Recorded and calculated as part of the grade point average (GPA); F grades are subject to probationary standards.
W	--	Withdrawal. No credit. Recorded but not calculated as part of the GPA. In order to acquire a W instead of an F, a student must withdraw no later than one week after mid-semester grades are issued.*
I	--	Incomplete. Course work not completed because of circumstances beyond the student's control. All work must be completed within one calendar year of the final day of the semester in which the incomplete was received. Work not completed within one year will automatically be changed to an F. Individual instructors may specify shorter time limits for incompletes. Not calculated in GPA.*
S	--	Satisfactory. Given only for UCDEC and UC 4001. Not calculated in GPA.*
U	--	Unsatisfactory. Given only for UCDEC and UC 4001. Not calculated in GPA.*
AU	--	Audit. No credit is awarded and is not calculated in GPA.

Note: All students have the right to review and challenge their records.

* Although these grades are not calculated into the grade point average, they may affect the student's financial aid status.

Grade Changes

With the exception of the grade of "Incomplete," final course grades are not changed after submission to the Registrar except as provided for in this section. Any grade changes provided for in this section may only occur during the semester immediately following the semester in which the grade was originally submitted.

- **Change of Final Course Grade - Process for Instructors**

If an error has been made in the calculation or transcription of the original grade, the instructor will notify the Registrar of the error in writing and the correction will be made. Under no circumstances will a change in grade be allowed because of the submission of additional work after the grade has been submitted. Should an instructor wish to change a grade for any other reason, the request and supporting documentation should be submitted to the Academic Regulations Committee for consideration. The committee will review the evidence, seek additional information as appropriate, and make a determination.

- **Appeal of Final Course Grade - Process for Students**

If a student disagrees with the final grade they have earned for a course, the student should first initiate a conversation about it with the instructor. After this conversation, should a student wish to appeal the final course grade, the student may appeal the grade to the Academic Regulations Committee. The appeal must be typed, and can be submitted by regular mail or email, or in person, and must be submitted no later than four weeks after the official final grade is submitted. Appeals are submitted to Registraroffice@unity.edu or to:

Academic Regulations Committee
c/o Registrar's Office
90 Quaker Hill Road
Unity, Maine 04988

The Academic Regulations Committee will consider grade change appeals on a regular basis during the Fall and Spring semesters. The committee will review the appeal and other supporting documentation and information. The committee may request additional information from relevant parties as needed before making a decision on the appeal.

If the student believes that she or he did not receive proper due process in the appeal to the Academic Regulations Committee, she or he may appeal to the Chief Academic Officer. The appeal must be typed, and can be submitted by regular or electronic mail, or in person. It must be submitted no later than 10 working days after the date of notification of the Academic Regulations Committee's decision. It must document how the appeal process was procedurally inappropriate in light of the timeline, criteria, and method of review published in the catalog; appeals must address a specific procedural issue with the initial appeal in order to be considered. Appeals are submitted to ChiefAcademicOfficer@unity.edu or by mail to:

Chief Academic Officer
Unity College
90 Quaker Hill Road
Unity, Maine 04988

The Chief Academic Officer may seek additional information or documentation from the Academic Regulations Committee, the student, or other parties as appropriate, and upon review of the record will make a determination on whether satisfactory due process was provided to the student. The student will be notified of the decision no later than 10 working days after the Chief Academic Officer received the appeal. The decision will be final.

Honors List

The Honors List is published after the end of each semester and includes names of students who have earned a minimum of 14 credit hours during the semester, received no Ds, Fs, Ws, or Incompletes, and achieved a minimum semester grade point average of 3.33.

Honors	Semester grade point average of 3.33 – 3.49
High Honors	Semester grade point average of 3.50 – 3.74
Highest Honors	Semester grade point average of 3.75 or above

- **Unity Scholar Credit**

As further recognition of outstanding scholarship, junior and senior students who have been on the Honors List in the highest honors category for the prior two semesters, and also have a cumulative grade point

average of 3.75 qualify for the title of “Unity Scholar” and are eligible to take up to 17 credits for the flat tuition charge in the subsequent semester.

Independent Study

Independent study is advanced work that allows students to go beyond existing course work to investigate a topic or hypothesis. The subject matter should be one that is not normally covered in regular course work. The work is supervised and evaluated by a faculty member and culminates in a significant paper or report. The independent study should be focused on a clearly defined subject matter of genuine intellectual and academic substance. Students interested in doing independent study are encouraged to discuss with faculty members their ideas and the feasibility of earning credit. Independent studies are variable credit from one (1) credit to three (3) credits.

Students wishing to pursue an independent study must have a cumulative grade point average of at least 3.00. Independent studies can only be done at the sophomore, junior or senior level with a full-time standing member of the Unity College faculty. Independent studies may not be used to meet requirements in a major and students may only do one independent study in a given semester. Independent studies may begin at any time, but must be on file in the Registrar’s Office one week before work is scheduled to begin. If an independent study is started after the add/drop period of a regular semester, or at other times of the year, tuition will be charged at the internship rate.

Majors and Minors

Unity College offers degrees in the following academic majors:

Associate Programs

Associate of Arts

Liberal Studies

Associate of Science

Environmental Science

Baccalaureate Programs

Bachelor of Arts

Art and Environment

Environmental Writing and Media Studies

Bachelor of Science

Adventure-Based Environmental Education

Adventure Therapy

Biology

Captive Wildlife Care and Education

Conservation Law Enforcement

Earth and Environmental Science

Environmental Policy, Law, and Society

Marine Biology

Parks and Forest Resources

Sustainable Agriculture

Sustainable Business Enterprise

Sustainable Energy Management

Wildlife Biology

Wildlife and Fisheries Management

All bachelor’s degree major fields of study are comprised of the following components:

Unity Environmental Citizen Core Curriculum

Major Requirements

General Degree Requirements:

- A minimum of 120 credit hours
- Thirty credit hours taken in residence
- Thirty credit hours at the 3000 level or above
- All degree candidates must have a cumulative GPA of 2.0 or above and be in good standing

Double Majors and Minors

Double majors consist of two majors attached to a single degree, as opposed to two separate degrees each with its own field of study. If the double majors are in a BA and a BS degree, then the student will choose which single degree is awarded. An academic **minor** is a specified sequence of courses totaling 18-24 credits and requiring at least nine credits of 3000 or 4000 level work.

- An additional major and one minor may be declared at any time prior to the accumulation of 75 credit hours. Good Standing status is required to declare an additional major or minor.
- Students may declare one additional major to their primary major and one minor in addition to their major(s).
- Academic requirements for all programs must be able to be completed within the same semester. All academic degree components (Majors and minors) must be conferred on the same graduation date. Double majors and/or minors cannot be retroactively awarded or added onto a conferred degree.
- Students must designate a primary major and a secondary major when declaring the additional major.
- The college does not guarantee courses for the secondary major or minors. No substitution of courses or course waivers are allowed for the secondary major or minor.

Non-degree Students

A non-degree student is one who is not pursuing a degree at Unity College but wishes to take courses for undergraduate credit. Any person with a high school diploma or equivalent may apply to take undergraduate courses as a non-degree student. Non-degree students are limited to one course per semester on a space available basis, up to a maximum of 15 credits total. Students who wish to matriculate into a degree-seeking program must follow normal application procedures through the Unity College Admissions Office. Credits earned by a non-degree student may later be applied toward a Unity degree program.

Readmission

Students who previously attended Unity College and officially withdrew in good standing may be readmitted by applying to the Registrar. Students who were dismissed or who did not enroll in classes the previous semester must also apply to the Registrar. Students who were not in good academic standing when they withdrew may be asked for additional documentation to support the readmission form. Students who medically withdrew may need to provide the Dean of Students with documentation from a health provider or other documentation to support the readmission form. The deadlines for applying for re-admission are October 15th for spring semester and April 1st for fall semester.

Repeated Courses

Students with a need to earn a higher grade may repeat a course previously taken. While the grades for both the first and subsequent attempts will remain on the student's transcript and the academic record, the highest grade will be used in computing the cumulative grade point average. Credit can only be earned once for a course, unless specifically stated otherwise in the course description. Courses completed with a passing grade of C or higher may only be repeated once.

Responsibility for Degree Completion

Unity College will make every effort to provide accurate advising tools and information on student degree requirements. However, the student is ultimately responsible for keeping track of their degree requirements and updating their academic plan as needed. Students are responsible for familiarizing themselves with college academic policies, and they should be aware that these policies may be subject to change as published in college catalogs. Students are expected to take ownership of their academic plan, to follow appropriate deadlines for applying for graduation, and to regularly check their college email account.

Satisfactory Academic Progress

Students must meet the following requirements, both qualitative and quantitative to be considered to be in good academic standing, and eligible for Federal, State or Institutional Financial Aid.

Academic standing is evaluated annually at the end of each Spring term, or if a grade change is made that will result in a change to the GPA or completion rates used to calculate a student's most recent standing, except in the case of an incomplete being resolved. While formal evaluation is completed once per year, students may be reviewed on an individual basis to ensure their continued academic success.

Good Academic Standing Is Defined As:

- Maintaining the minimum Cumulative Grade Point Average of 2.00
- Maintaining the cumulative credit completion rate of 67%
To find this percentage, divide the number of credits you have earned by the number of credits you have attempted. (Total attempted Credits is defined as the total number of credits a student is enrolled in at the end of the Add/Drop period of each semester, and cumulatively includes all accepted transfer credits.) Grades of "I" (Incomplete) will be used in this calculation as attempted credits, but not earned credits.
- Being mathematically able to complete your degree program in a timeframe of no more than 150 percent of your program's average length.

Failure to Meet the Minimum Standards

Failure to meet the minimum standards of satisfactory academic progress will result in suspension from the institution, and from receiving Financial Aid. There is no formal "warning" to a student who is not meeting the standards before suspension; however the Student Success Team will monitor students and offer assistance to students who show signs of being unsuccessful.

Suspensions may be appealed by the student.

Appeal of Financial Aid Suspension and Academic Suspension

A student who documents, in writing, extenuating circumstances that could not be prevented, may appeal their suspension. Students must submit their appeal within 14 calendar days of the date when final official grades are posted to the student portal OR before enrollment in a new term begins, whichever occurs first.

Please note that appeals that do not clearly outline the circumstances which led to academic difficulty, and what steps have been taken to overcome those circumstances, will not be considered.

Appeals are submitted to Registraroffice@unity.edu.

In addition to the student's written appeal, the panel [composed of Unity College staff and faculty] may consider documented feedback from faculty and staff, letters of support, and other documentation received from the student or other offices on campus. This documentation may be requested from Unity College employees by the student or the panel. Students are encouraged to request the submission of documentation that supports the changes the student has made to make them successful. Students may, and are encouraged to, provide documentation from outside sources such as a medical professional, a clergy member, or other professionals who are assisting the student overcome their challenges.

The panel's determination will be based upon evidence of extenuating circumstances beyond the student's control, as well as the student's likelihood for achieving academic success. Likelihood of success will be based on the student's outlined plans to overcome the circumstance, documentation submitted to the panel, and the student's past academic performance. The student will be notified of the panel's decision no later than 10 calendar days after the deadline to appeal suspensions.

Students Who Successfully Appeal Their Suspension

A student whose appeal is approved will be placed on probation. Students must meet the requirements to be in good academic standing within their one term probation period to continue attendance, and receive Federal and Institutional Financial Aid. Students for whom it is mathematically unlikely to achieve good standing in the one term of probation will be placed on an academic plan. An academic plan allows the student additional time to obtain good academic standing. This plan must be crafted and approved by the end of the add-drop period of the first term of probation.

The individualized plan is created by the Collaborative Learning Center, in conjunction with the Registrar's Office, and reviewed by the Financial Aid Office. The plan will have quantitative and qualitative goals that the student must meet each term, and the plan must be completed in the outlined time frame. Students who meet the conditions of their plans will continue to be on probation until they complete their plan, and obtain Satisfactory Academic

Standing, or obtain Satisfactory Academic Standing before their outlined plan projects.

Failure to meet the outlined plan will result in academic and financial aid suspension. Should a student wish to make changes to their academic plan, they must submit the proposed changes to the panel for approval at the end of a term.

A student may not appeal a second time for the same circumstance.

The College reserves the right to suspend or dismiss a student from the College at any time when academic work is unsatisfactory or when conduct is deemed detrimental to the teaching and learning goals of the College community. This suspension can be put into place at any time during the academic year, and does not require the formal Satisfactory Academic Progress review to have taken place.

Second Degree Requirements

Students desiring a second degree in addition to either their B.A. or a B.S. must complete a second residency requirement of 45 credit hours, all taken after the completion of the first bachelor's degree.

Status/Full-Time and Part-Time

A full-time student is matriculated into a degree program and carries a minimum of 12 credit hours in a semester. A part-time student is matriculated into a degree program, but carries fewer than 12 credit hours in a semester. Students are billed as full-time students for 12 to 16 credit hours, and financial aid is awarded on the basis of at least 6 credit hours of enrollment.

Time Limit

Students enrolled in a degree program may continue to work toward their degree program under the requirements which were in effect at the time they matriculated, providing there have been no breaks of more than 24 months. Students who have a break of more than 24 months must then meet requirements of the catalog in effect at the time they reenter the college. The college reserves the right to make substitutions for courses which are no longer offered.

Transfer Credits

Transfer Credits may be awarded up to a maximum of 90 credit hours in a bachelor's program (30 in an associate degree) for work successfully completed with a grade of C or better at accredited institutions of higher learning. Courses counting as electives may not exceed 40 credits. Courses offered for transfer should be comparable to courses at Unity, but other courses will be considered if appropriate to the applicant's program of study. Incoming transfer students should refer to individual course descriptions to determine when those courses scheduled on an alternate year basis will be offered. All final official college transcripts must be part of the student's academic file prior to August 1st for students enrolling in the fall semester and the first day of classes for students entering in the spring semester. If final transcripts are not received before the designated times, the initial transfer evaluation will be revised and credit will not be awarded. In cases where the credit for a course at the transfer institution does not match the number of credits for the Unity College equivalent, the student will receive the number of credits earned for the original course.

Veteran Students

Unity College welcomes applications from veterans as well as from active duty military personnel, reservists, the National Guard, widows and widowers of veterans, and war orphans. A student wishing to be considered for educational benefits from the Veterans Administration must submit copies of discharge papers (DD-214) and, if applicable, marriage licenses and birth certificates of dependents, along with the appropriate applications to the Registrar's office. Official transcripts of any previous training must also be submitted to the veteran's office. Dependents of deceased or service-connected disabled veterans must contact the veteran's center that holds the veteran's records, and inform the center of their intention to attend Unity College.

The degree programs of Unity College are approved by the Maine State Approving Agency for Veterans Education Programs for persons eligible for educational benefits (GI Bill®) from the U.S. Department of Veteran Affairs. Students who have questions about their eligibility should visit the Veterans Administration web site at www.gibill.va.gov or call 888.442.4551. Students who request veteran's educational assistance are required to have all previous post-secondary experience evaluated for possible transfer credit in order to be eligible for benefits. For

more information, contact the Unity College Registrar. Veteran students are expected to complete all of their registered courses each semester. Any change in academic workload must be reported to the Registrar. Failure to do so may result in an overpayment.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official website at <http://www.benefits.va.gov/gibill>.

Withdrawal from the College

Students are considered officially withdrawn when they complete the withdrawal process designated by the Registrar, or otherwise notify the registrar of their withdrawal. All grades for courses in progress as of the withdrawal date are recorded as “W” and all relevant offices and professors will be notified. Courses whose end date has passed and for which all work has been completed will still receive the grade earned before the withdrawal. Students who fail to withdraw by the final class day (prior to final examinations) will remain enrolled and receive the grade earned for the class.

Students are considered unofficially withdrawn (ceased attendance without providing official notification or expressed intent to withdraw) if a faculty or staff member notifies the Registrar’s office a student is no longer in attendance, and continued Academic activity cannot be established by Unity College. Date of withdrawal will be established using the “Date of withdrawal” policy.

Students may also be considered unofficially withdrawn when a student is assigned all “F” or “F” and “W” grades at the end of the semester. The Registrar’s office will attempt to establish if the student earned at least one of their “F” grades. If the Registrar’s office cannot reasonably establish the earning of the grade (academic participation through the entire semester) in at least one course, the student will be considered withdrawn. The date of withdrawal will be determined using the “Date of withdrawal” policy. Refunds are based on the published refund schedule and determined by date of withdrawal.

• Date of Withdrawal

A student is considered “withdrawn” as of the day they begin the official withdrawal process or notify the Registrar’s Office of their withdrawal. It is highly recommended a withdrawing student follow Unity College’s official withdrawal process by completing all forms. Official notice to the Registrar’s Office of beginning the withdrawal process can be either oral or written. In the case of written notice, the date of withdrawal will be the date the written notice is received. Students who do not provide official notice will have their last date of recordable academic activity used as their date of withdrawal OR the midpoint of the semester if date of last academic activity cannot be determined.

Academic activity includes (but is not limited to):

- Attendance in class
- Submitting academic assignments
- Participating in online discussions
- Taking an exam

Academic activity does not include:

- Living in Unity College residence halls
- Consuming meals in Unity College dining facilities
- Logging into online classes/discussions without active participation
- Meeting with an instructor or advisor to participate in academic counseling or advising

A student cannot self-certify academic activity. Unity College must be able to establish the data via electronic record, paper record, or documentation from a staff or faculty member.

If a student is unable physically or mentally to begin the withdrawal process the school may use the date of the related circumstance (such as an automobile accident) or the date of last academic activity.

- **Medical Withdrawal from the College**

Students may request a medical withdrawal when an illness or injury occurs that makes it impossible for the student to continue with classes. A medical withdrawal may be used in response to matter of both physical and mental health. To be recorded as a medical withdrawal, documentation from an external licensed medical practitioner must be submitted to the Dean of Students outlining the nature of the illness or injury and confirming that the student would not be able to complete course work as a result. Date of withdrawal will be determined using the date of withdrawal policy. As with other official withdrawals, resident students are expected to leave campus as soon as possible after the withdrawal. The regular refund policies of the college apply. Medical withdrawals can be recorded up to the last day of class for the term and are never retroactive (all documentation from a medical professional must be received before the last day of classes for the withdrawal to be considered medical). In the case of a medical withdrawal, all grades for courses in progress as of the withdrawal date are recorded as “W” and all relevant offices and professors will be notified. Courses whose end date has passed and for which all work has been completed will still receive the grade earned before the withdrawal. A student may also be required to take a medical withdrawal at the request of the College when a student’s illness or associated behaviors prevent the student from safely attending class or completing coursework, present a risk to the safety of others, or are significantly disruptive to the community. The Dean of Students in consultation with medical professionals will make the determination of when a mandatory medical withdrawal will be required and by what date the student must leave campus.

The Unity College Honor Code

Every member of the Unity College community is responsible for upholding the principles of academic honesty. Personal ethics and academic community integrity should govern student action.

Academic Integrity

The Unity College Honor Code requires that students be honest in all academic and co-curricular work. By joining the Unity College Community, we express our willingness to accept the responsibilities and privileges of the academic community. Academic dishonesty threatens the mission of Unity College and potentially jeopardizes the success and safety of our community members and others.

All members of the Unity College community should conduct their activities so as to follow principles of academic integrity. Community members will assume that all are adhering to the Honor Code and will conduct themselves accordingly. If a community member suspects a violation of the Honor Code, he or she shall submit an Incident Report and discuss the matter with the alleged violator. If the matter is not resolved to the satisfaction of both parties, either may call for a hearing. Similarly, if the proceedings of the judicial review are unsatisfactory, either party may appeal to the proper administrative channels. See the Student Handbook for more information about College judicial proceedings.

All members of the Unity College Community are responsible for adhering to principles of academic integrity and for reporting breaches of academic integrity. Because understanding academic honesty is a process that takes time, sanctions for first offenses typically include an education component, while sanctions for consequent offenses become more severe, including suspension and dismissal. For this reason, it is imperative that incident reports are submitted for all cases of academic dishonesty.

Academic dishonesty includes, but is not limited to, the following:

Plagiarism: We acknowledge the difference between citation errors, in which a writer incorrectly cites a source, and plagiarism, in which a writer engages in any of the following:

- Quoting, summarizing, or paraphrasing any part or all of a source without acknowledging the source in the text of any work.
- Incorporating any information—data, statistics, examples, etc. — that is not common knowledge without attributing the source of that information.
- Using another’s images, sounds, opinions, research, or arguments without attribution.
- Failing to follow fair-use policies, which dictate informal acknowledgement or formal citation depending upon the context and assignment.
- Submitting work that someone else completed.

Cheating:

- Submitting an assignment for one class in another class without approval of both instructors.
- Claiming credit for work not done independently (excluding college support services such as the CLC) without giving credit for aid received.
- Seeking out, accepting, or actively aiding in any unauthorized collaboration or communication during examinations. This includes but is not limited to sharing answers and using technology without prior permission.

Misrepresentation:

- When someone other than the student enrolled in the course completes any part of the coursework.

Falsification:

- Falsifying or deliberately misrepresenting data and/or submission of work.

Nondiscrimination/Harassment/Equal Opportunity Policy

Unity College values a diverse college community where all individuals are treated with respect and dignity. The college is committed to providing a learning and working environment that is free of illegal discrimination, harassment or retaliation. Illegal discrimination, harassment, or retaliation of individuals of the campus community are against our policy and will not be tolerated.

Unity College does not discriminate on the basis of race, color, ancestry or national origin, religion, sex, sexual orientation, marital status, age, disability, veteran status, or other status protected under local, state or federal laws in the recruitment and admission of students, educational policies and procedures, and in the recruitment and employment of employees. We offer reasonable accommodation to applicants and to qualified individuals with disabilities, including accommodation in the application process.

Unity College is an equal opportunity employer and operates in accordance with federal and state laws regarding non-discrimination.

Harassment is verbal or physical conduct that denigrates or shows hostility or aversion toward an individual that may involve any of the protected categories listed. Harassment on the basis of these protected characteristics is against the law and the policy of the college. Examples of prohibited harassing conduct include but is not limited to; epithets, slurs, or negative stereotyping; threatening, intimidating, or hostile acts; denigrating jokes; written or graphic material that denigrates or shows hostility or aversion toward an individual or group; sexually-oriented conversation; or visual display of sexually suggestive pictures or objects.

These policies apply to all students and employees and are related to conduct engaged by fellow employees, students, or third parties with whom students and employees interact with in the course of their learning or jobs. Those that experience or witness discrimination, harassment or retaliation are encouraged to promptly report to the Dean of Student Affairs (students) or the Director of Human Resources (employees), who will investigate complaints. The type of discipline will be determined by reflecting on the severity of the conduct, up to and including a suspension or termination from school or dismissal from the college.

The Family Educational Rights and Privacy Act of 1974 (and Amendments)

Annual Notice of Student Education Records and Information Rights

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

Inspection of Records

A student has the right to inspect and review his or her education records within 45 days of the day the College receives a request for access. A student should submit to the Registrar a written request that identifies the record(s) the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected in the presence of a campus official.

Amendment of Records

A student has the right to request the amendment of his or her education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

A student who wishes to ask the College to amend a record should write the Registrar, clearly identify the part of the record the student wants changed, and specify why it is inaccurate or misleading.

If the College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student's 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.

Disclosure of Records

Unity College must obtain a student's written consent prior to disclosure of personally identifiable information contained in education records except in circumstances permitted by law or regulations, some of which are summarized below.

Directory Information

Unity College designates the following student information as directory information that may be made public at its discretion: name, address, telephone listing, e-mail address, photograph, date and place of birth, major field of study, grade level, enrollment status, most recent educational agency or institution attended, and student ID number or other identifier other than a Social Security number (but only if the identifiers cannot be used to gain access directly to education records without one or more other factors such as a password), participation and grade level of students in officially recognized activities and sports, height and weight of student athletes, dates of attendance in the college, degrees, honors and awards received, and photographs and videos relating to student participation in campus activities open to the public.

Students who do not want the college to disclose directory information must notify the Registrar's Office in writing by September 15th or within thirty (30) days of enrollment, whichever is later. This opt-out request will remain in effect unless and until it is rescinded.

School Officials with Legitimate Educational Interests

Education records may be disclosed to school officials with a legitimate educational interest. A school official has a legitimate educational interest if he/she needs to review an education record in order to fulfill his/her professional responsibility. School officials include persons employed by the college as an administrator, supervisor, academic or research faculty or staff, or support staff member (including health or medical staff and law enforcement unit personnel); persons or companies with whom the college has contracted to provide specific services (such as attorneys, auditors, medical consultants, field placement supervisors and other related personnel, collection agencies, evaluators or therapists); Board of Trustee members; students serving on official committees or assisting other school officials in performing their tasks; and volunteers who are under the direct control of the college with regard to education records.

Health or Safety Emergencies

In accordance with federal regulations, the college may disclose education records in a health or safety emergency to any person whose knowledge of the information is necessary to protect the health or safety of the student or other individuals without prior written consent.

Other Institutions of Higher Education

Unity College sends student education records to other institutions to which a student seeks or intends to enroll, or is actually enrolled including disciplinary records, attendance records, disability records and health records that pertain to the student's enrollment at Unity College.

Other Entities/Individuals

Education records *may* be disclosed to other entities and individuals as specifically permitted by law. Unity College is permitted to disclose information from your education records to your parents if your parents (or one of your parents) claim you as a dependent for federal tax purposes. Students may obtain information about other exceptions to the written consent requirement by request to the Registrar's Office.

Complaints Regarding Unity College's Compliance with FERPA

Students who believe that the College has not complied with the requirements of FERPA have the right to file a complaint with the U.S. Department of Education. The office that administers FERPA is:

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

Financial Information

Charges and Payments

Basic Costs 2018-2019

Tuition	\$27,960
Housing and meals	<u>\$10,710</u>
	\$38,670

Payment Due Dates

ALL CHARGES FOR FALL SEMESTER ARE DUE IN FULL ON OR BEFORE JULY 15 FOR ALL INCOMING STUDENTS AND AUGUST 1 FOR RETURNING STUDENTS AND DECEMBER 15 FOR ALL STUDENTS FOR THE SPRING SEMESTER.

Bills are based on a full-time course load in the chosen program of study and are sent to first-time students in early April, returning students in early June for the fall semester and mid-November for the spring semester. A 1.5 percent per month late charge may accrue on all unpaid balances.

Payments can be made online at www.unity.edu/payments or you may mail a check to:

Unity College
Office of Student Accounts
90 Quaker Hill Road
Unity, Maine 04988

Short Term Monthly Payment Plans

Our Interest-Free Monthly Payment Option, offered in partnership with Heartland Campus Solutions ECSI for students in good standing. Unity College defines accounts in good standing to be accounts which are paid in full in a timely fashion for prior semesters. Under these plans all amounts due to Unity College can be paid over a 6, 5, or 4 month period commencing May, June, or July 15th for the fall and November, December or January 15th for spring. A non-refundable \$75 application fee will be charged to participate each semester in either plan. For further information and/or to participate you can visit http://www.unity.edu/payments/unity_payment_plans.

Failure to Pay

Failure to pay bills in full when due may result in the revoking of Unity College privileges, including but not limited to, issuance of grades and/or transcripts, registration for subsequent semesters, participation in graduation ceremonies, and participation in registered classes and examinations. It is imperative that a student contact the Student Accounts Office if any of the charges are disputed at 207-509-7261.

Financial Aid

Many students and their parents assume that attending a private college will cost too much or that their income is too high for them to qualify for financial aid. Often these assumptions are not correct. Financing a college education is not easy. It involves a significant commitment on the part of students and parents, but in most instances financial aid will make it possible for a student to attend a private college often at a cost similar to costs at state colleges or universities. In any case, you will never know whether you can afford to attend Unity College unless you apply for admission and financial aid.

Unity College will continue to do everything possible to make it financially possible for qualified students to attend. Approximately ninety percent of Unity students receive financial assistance.

In accordance with Federal Regulations, Academic Progress is reviewed at the end of each semester. The Unity College policy related to Academic Progress, can be found under the “Satisfactory Academic Progress” section of this catalog. If you have questions about this policy you may contact the Financial Aid office.

Student Expenses

Tuition and Fees

Tuition	\$13,980	For students taking 12-16 credit hours. Credit hours fewer than 12 or more than 16 are charged at a rate of \$1,010 per credit hour
May Session Tuition Charges	\$570	Courses taken during the May session are charged at a rate of \$570 per credit hour.
Course Fees	\$75 - \$1,500	Course fees are associated with specialized courses that require additional costs not included within the regular tuition charges.
Credit by Examination	\$100	Unity College Designed Examination for Credit. (UCDEC).
Audit Fee	\$50	Separate from regular tuition and is charged per credit.
Internship/Independent Study	\$570	An internship or independent study outside the regular semester, enrollment is charged at a rate of \$570 per credit hour.
New Student Orientation	\$100	The charge for housing, meals, and activities during the new student orientation program, weekend and semester programming. Nonrefundable.
Nova	\$400	Nova is a mandatory immersive program for all entering students at Unity College. This fee pays for food, camping, transportation, gear and equipment. This fee is nonrefundable.
Student Activity Fee (per semester)	\$150	Funds collected are to support the student government budget.
Student Health/Insurance Fee	\$1,460	Required <i>annual</i> fee. Coverage starts July 1, 2018 and ends June 30, 2019. All students are required to have coverage. However, the fee can be waived if a student is covered under another plan by submitting a waiver within their student portal.
Technology Fee (per semester)	\$200	Mandatory fee to provide access to computers and related campus technologies, including college-managed e-mail accounts, internet access and a variety of software.
Graduation Application	\$100	Application Fee
Housing and Meals		
Housing Deposit	\$125	A housing deposit is required of any returning Unity College student to hold a room on an annual basis. Deposits will be nonrefundable after June 1.
Housing	\$3,215	For all campus residence double occupancy. Single occupancy may be requested for an additional cost of \$530 or \$270 for suite style (per semester) and will be available on a need and first-come, first-served, space-available basis. Triple occupancy may be assigned when there is a shortage of residence hall space. Residents must abide by the Campus Plan in the Unity College Student Handbook. <i>Cottage:</i> There will be an additional \$530 charge per semester for each resident in a cottage.
Meal Plan	\$2,140	Unity College offers three meal plans (see Dining Services for

details). A meal plan is required by each student residing on campus with the exception of the cottages.

Bundle Plan	\$415	Unity College offers a 60 meal plan. This plan is available to off-campus students and residents living in the cottages.
May Session	\$75	In addition to course fees, \$75 per day for housing and meals will be assessed for courses offered on campus.
Miscellaneous Expenses		
Enrollment Deposit	\$250	The deposit is forfeited if you do not enroll at the College.
Enrollment Deposit (International Student)	\$2,500	Cancelled deposits on or before June 15 th will receive a full refund, after June 15 th \$250.00 will be forfeited and the remainder refunded.

Refund Add/Drop Policy

Tuition and Fees

Courses may be added or dropped during the add/drop period without additional costs if credit hours fall between 12-16 credit hours. Students taking more than 16 credits are charged an additional fee per credit hour. Students taking fewer than 12 credit hours are charged for credit hours taken.

Housing and Meal Plans are billed on a semester basis. The student is obligated to pay appropriate room and board fees for the full academic year and to abide by all policies as specified in the Unity College Catalog and Student Handbook unless a formal appeal to be released from one or more of these obligations is filed with and approved by the Dean of Students.

Refund Schedule for Tuition, Room and Board and Applicable Fees

If a student officially withdraws from the College or the housing and/or meal plan, the following reductions will be made:

Fall and Spring Semester	Refund	May Session	Refund
Prior to the first day of classes	100%	Prior to the first day of class	100%
1-5 calendar days	90%	1-2 calendar days	90%
6-12 calendar days	75%	3-4 calendar days	75%
13-19 calendar days	50%	5 calendar days	50%
20-26 calendar days	25%	More than 5 calendar days	0%
27 or more calendar days	0%		

Students receiving any federally sponsored financial aid, such as Federal Pell Grants, or Federal Stafford Loans, are subject to a separate Federal policy pertaining to the amount of those federal funds they may retain when they withdraw from the college during an academic semester. This policy called, *The Return of Title IV Funds Policy*, prorates available aid based on the amount of the semester completed. Written examples of the refund calculations are available upon request from the financial aid office, as well as any further information that may be needed pertaining to the refund or return of Title IV Funds process.

Whenever applicable refunds are determined and any federally sponsored programs are involved, the following federally prescribed order of refund distribution is required

Prescribed by Law and Regulation **TOTAL REFUND:**

- | | |
|---------------------------------------|--------------------------------|
| 1. Unsubsidized Federal Stafford Loan | 5. Federal Pell Grant |
| 2. Subsidized Federal Stafford Loan | 6. FSEOG |
| 3. Federal Perkins Loan | 7. Other Title IV Aid Programs |
| 4. Federal PLUS Loan | |

Student Services

The Student Life Office provides programs and services in the areas of residential life, social and cultural activities, dining services, health and wellness, intercollegiate athletics, and recreational sports designed to help students achieve maturity in self-image, in relationships with others, and in their ability to deal with life's challenges. Below is a brief outline of the student services at Unity College. For more information, please refer to the [Student Handbook](#).

Athletics

[Visit Athletics](#)

Unity College is a member of the United States Collegiate Athletic Association (USCAA), and the Yankee Small College Conference (YSCC). Unity College offers five varsity intercollegiate sports: men's soccer, basketball, cross-country, track and women's volleyball, soccer, basketball, cross-country, and track. In addition, Unity sponsors various intercollegiate club sports and intramural activities throughout the year. Woodsmen, ice hockey, archery, bowling and ultimate Frisbee teams compete with other college clubs throughout New England.

- **Equity in Athletics Disclosure Report** - Each year on October 1, the college makes available the Equity in Athletics Disclosure report to students, potential students, and the public. This report may be reviewed upon request in the Registrar's Office.

Dining

[Visit Dining Services](#)

Unity College Dining Services is a self-operated food service program with a goal to provide high-quality food, a friendly atmosphere, and excellent customer service while supporting local and sustainable practices. In our dining hall located in Wyman Commons, we offer an array of dining options ranging from comfort foods to our 6-foot cooked-to-order Mongolian Grill.

We offer the following on-campus meal plans: 19 meals a week for first-year students and a choice between 19, 14 or 10 meal plans for upper-class students. These meal plans incorporate a declining balance that can be used at the Student Center or downtown in two restaurant locations. We also offer a meal plan for off-campus students or any student not required to be on one of our standard meal plans. This plan permits 60 meal swipes per semester in either the Student Center or Dining Commons. Meals must be used by the end of each semester. The first meal of each semester begins with the Sunday brunch meal of the first week of classes and ends with the dinner meal on Wednesday of finals week.

The Student Center is Dining Services' retail operation where students can purchase food and sundries. Meal plan dining dollars and meal exchanges can also be used here as well as Unity Dollars.

Public Safety

[Visit Campus Safety](#)

The Public Safety Department is responsible for providing a comprehensive program of police, security, crime prevention, fire safety, emergency medical, parking, and related public safety services on a 24-hour basis. To further this objective, the Department of Public Safety works toward the establishment of a partnership with students, staff, and faculty in the development of crime prevention, security assessment, response, and education. This partnership is the foundation of maintaining an environment which encourages mutual respect, caring, and safety for the campus community.

Public Safety maintains a working relationship with Waldo County Sheriff, Maine State Police, Unity Fire Department, and Unity Ambulance to ensure an immediate response in the event additional assistance is required to ensure the safety of students, faculty, staff, and visitors and to protect the property and facilities. Public safety officers are trained to assist, when necessary, the Emergency Response Team.

Federal regulations require the reporting of crime statistics each year by September 1. The Public Safety Report is available on the college website at www.unity.edu. A printed copy of this report is available to anyone, at no cost, by contacting the Unity College Public Safety Office.

Residence Life

[Visit Residence Life](#)

The Office of Residence Life offers students the opportunity to be on campus in a dynamic, challenging and educational environment. While in residence, students have the convenience of easy access to the library, classrooms, recreational facilities, leadership opportunities and educational programs that take place in the residences. Social activity, both planned and spontaneous, frequently begins in the halls. Some students believe that their strongest interpersonal relationships are initiated in the halls.

Student Activities

[Visit Student Activities](#)

Student Activities provides a diverse offering of events for the participation and enjoyment of students. These program opportunities are geared to expand students' experience and facilitate their social connection with the community around them. A quick look at the monthly calendar will reveal that there is plenty going on at Unity College, such as Unity LIVE events for magicians, comedians, hypnotists and other entertainers, Postcard trips, Campus Traditions such as the Talent Show and Earth Week, movie programs, special events and more! The Student Activities Director and staff of work study students provide a variety of social, cultural, and educational programs throughout the school year. Students are strongly encouraged to recommend, help organize, and participate in Student Activities' events.

Student Government

[Visit Student Government](#)

The Student Government Association is an active, highly respected, and influential voice on campus that helps to organize rewarding activities and non-academic programs. Funded by the student activity fee, the Student Government Association distributes funds each semester to the various student projects, activities, clubs, and organizations.

Unity College's Student Government Association is made up of a president, vice-president, secretary, treasurer, two senior class representatives, two junior class representatives, two sophomore class representatives, two incoming class representatives, one commuter representative, one residence representative, and one athletic representative. One member is also the student representative to the Board of Trustees of the College. Many college committees include student representatives, who may be appointed by the Student Government president with the approval of the Student Government Association. In addition to these committees, the Student Government Association forms its own committees to take action and make recommendations on issues related to the well-being of the Unity College community.

Student Health and Counseling

[Visit Wellness Center](#)

The Harrison Aldrich Wellness Center offers services, resources, and referrals to support the wellbeing of Unity students. In addition to our health and counseling services, we provide opportunities for a diverse group of students to participate in healthy activities. Clinical services are confidential within the legal and professional guidelines for the state of Maine and are available to all enrolled students. The Wellness Center provides a wide range of services including counseling and medical appointments, reproductive health clinics, sports medicine clinics and flu shot clinics as well as consultation regarding other local support services.

Degree Programs

The Unity Environmental Citizen Core Curriculum

The Unity College Environmental Citizen Core Curriculum, a primary component of the Unity education, engages students in real world problem-solving using the framework of sustainability science. It begins with the Nova Orientation program to promote personal growth and connection to our community of environmental stewards. The trans-disciplinary Keystone Courses, integral to all baccalaureate degrees, connects academic skills and a broad foundation of disciplinary tools to hands-on experiences. As a result, students graduate prepared for leadership in a wide range of careers and environmental issues.

Program courses can be used to fulfill any Environmental Citizen requirement. Any given course can only fulfill one of the Environmental Citizen requirements. All Foundation courses must be at least 3 credits

I. Foundation Courses:

- CM 1003 Composition and Communication I
- CM 1013 Composition and Communication II
- A Mathematics course
- A Life Science course
- A Physical Science course
- A Humanities course
- A Social Science course
- An Arts course
- An internship, academic field experience, or thesis
- A Community-based Learning course

II. Keystone Courses:

- IC 1001 Digital Literacy and Environmental Stewardship
- IC 1112 Unity Experience or IC 1111 Unity Transfer Experience
- IC 2223 Environmental Issues and Insights
- IC 3413 Environmental Scenarios and Solutions

The courses below fulfill the Environmental Citizen Foundation and Keystone requirements. A minimum of 3 credits is needed to fulfill each requirement:

Math courses: Courses with a course code of MA (except MA 1013)

Physical Science courses: Courses with a course code of CH, GL, PS (except PS 2023) - the course that fulfills this requirement must have a lab component

Life Science courses: Courses with a course code of BI (the course that fulfills this requirement must have a lab component)

Social Science courses: Courses with a course code of AN, EC, GY, PL, PY, and SY

Humanities courses: Courses with a course code of CM (except CM 1003, CM 1013, CM 2013, CM 2233, CM 3113), EH (except EH 3213), GS 1023, HU

Art courses: Courses with a course code of AR, CM 3113

Academic Field Experience

A field experience will include at least three credits of academic course study at the 3000 level or above, conducted over a period of at least three calendar weeks at a college/university research station. Field experiences must be pre-approved by the Unity College Internship Committee. Transfer credits associated with

academic field experiences must be approved by the Registrar and come from an accredited institution of higher learning.

Applied Thesis

The applied thesis is a capstone experience that allows you to showcase your skills and abilities as a practitioner within a field. Usually completed during your senior year, this project enables you to plan, develop, and implement a significant project in your area of specialty. See course descriptions and specific program requirements for more information.

Creative Thesis

A capstone experience for students in the arts and humanities. Students demonstrate the rigorous application of writing, critical thinking, and/or creative skills to create a significant body of original work. To complete, students must enroll in UC 4023. The topic and methodology of the thesis are decided between the student and two faculty advisors. Students are expected to present and defend their thesis during a public forum on campus.

Community-based Learning: is experiential learning that engages students in service opportunities within the community as an integral part of a course. It allows students the opportunity to apply classroom learning to real-life situations, which enriches the learning experience, teaches civic responsibility, and produces positive benefits for the greater community. The community-based learning course must be completed at Unity College. Transfer credits cannot be used to fulfill this requirement.

The following courses fulfill the Community-based learning requirement:

AE 1003 Experiential Learning Initiatives	ES 3213 Applied GIS
AF 3324 Fisheries Science and Techniques	FY 4213 Silviculture
AR 2003 Introduction to Drama	GL 3524 Lake Sedimentation
AR 3033 Environmental Photography	HU 2123 Spanish II
AS 4333 Administration and Organization	IC X213 Community Applications
BI 4703 Biodiversity Capstone	PF 3213 Visitor and Resource Protection
BU 3243 Entrepreneurship for a Better World	PF 4123 Interpretive Methods
CH 4044 Environmental Chemistry	PF 4223 Park and Forest Resource Plan
CM 2123 Environmental Communication	PL 3413 Environmental Advocacy
CM 3123 New Media	WF 2003 Animal Training
ED 3342 Exceptional and Universal Programs	WF 4013 Wildlife Conservation Capstone
ED 3443 Teaching Science-Secondary Schools	

Internship

An internship is a carefully planned, well-supervised job experience related to an academic field. This can include comprehensive research such as NSF Research Experiences for Undergraduates (REUs). To fulfill the Unity College Environmental Citizen requirement, the internship must be a minimum of three credits and be at the 3000 level or above. Completion of AS 2111 Professional Development before registering for an internship is recommended. Students should plan to take their internship no later than the summer of their junior year in order to complete their degree requirements in a timely manner.

Senior Thesis

A senior thesis is open to all majors including but not limited to natural, physical and social sciences although sampling and analysis methods may differ between fields of study. A thesis is an independent research project completed under the guidance of two faculty advisors. To complete a senior thesis, students must enroll in a two-course sequence - UC 4003 and UC 4013. A thesis is a substantial written work that documents and defends a viewpoint or hypothesis relying on the use of rigorous field, lab, or other research and represents a significant body of original work. The topic and methodology of the thesis are decided between the student and two faculty thesis advisors. Students will defend their senior thesis during a public presentation on campus and furnish an electronic copy of their thesis to the Undergraduate Research Program. See course descriptions and specific program requirements for more information.

Liberal Studies Associate of Arts

The Associate of Arts degree, emphasis in Liberal Studies, provides the greatest possible choice to the student in the design of his/her academic program. This degree program provides exposure in the traditional liberal arts. A student may concentrate heavily in one academic discipline, or he/she may design a program with considerable breadth in course selection. The Associate of Arts degree is designed to facilitate entry into a baccalaureate degree program.

I. A minimum of 60 credit hours, of which at least 30 must be earned in residence at the College.

II. The Unity Environmental Citizen Curriculum Requirements:

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

One Mathematics course

One Life Science course

One Physical Science course

One course each from two of the following categories:

An Arts course

A Humanities course

A Social Science course

III. A minimum of 24 credit hours must be earned at the 2000 level or above.

IV. All degree candidates must have an overall GPA of 2.0 and be in good standing.

Environmental Science Associate of Science

The Associate of Science degree is a two-year program that offers a general foundation in the environmental sciences. It is designed to provide basic skills and allow for the exploration of the varied fields in the natural resources. The two years needed to complete the degree provide the experience necessary for further specialization in a specific environmental science through continuation in the baccalaureate degree program.

I. A minimum of 60 credit hours, of which at least 30 must be earned in residence at the college.

II. The Unity Environmental Citizen Curriculum Requirements:

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

One Mathematics course

One Life Science course

One Physical Science course

One course each from two of the following categories:

An Arts course

A Humanities course

A Social Science course

Complete 36 credit hours from courses listed under the following course codes:

AF, BI, CH, CL, ES, FY, GL, MA, PS, SA, WF.

III. A minimum of 24 credit hours must be earned at the 2000 level or above.

IV. All degree candidates must have an overall GPA of 2.0 and be in good standing.

Adventure-based Environmental Education Bachelor of Science

Graduates of the Adventure-based Environmental Education program will make a difference in education for the future of the environment! The field of environmental education encompasses a broad spectrum - ranging from broad knowledge of ecology and geology, to group development, and safe field instruction. In this program, students explore how to use adventure activities such as backpacking, canoeing, and rock climbing as tools to make environmental learning an adventure. Students in this program will explore, plan, practice and promote action-oriented programs that will reshape learning to inspire their students. Adventure-based Environmental Education at Unity College provides every learner with an understanding of their contribution to the environment, the power of working collaboratively, and their interconnectedness with all living things. This program highlights Unity College's mission and expertise – using experiential and adventure teaching to develop the environmental understanding needed to imagine and enact solutions to 21st Century environmental issues.

Students enrolled in Adventure-based Environmental Education should expect to enroll in the *Experiential Educators Block* within the spring semester of their first year on campus. Courses will be offered in two seven week blocks allowing for students to experience consistent field based travel within the second seven week block. Students will be off-campus for 2-3 days at a time in the second half of the block.

Graduates in the B.S. in Adventure-based Environmental Education will be able to...

1. Understand and explain foundational earth systems concepts inherent to environmental processes and natural history.
2. Demonstrate mastery of technical skills related to Adventure-based Environmental Education appropriate to setting and involved equipment.
3. Understand and integrate theory and practice of experiential methodology, identify ethical and safe group practices as well as explain supporting theories.
4. Develop and provide cohesive, relevant and safe instruction in various settings to diverse groups.
5. Integrate and articulate individual understanding of leadership theory, styles, group dynamics, flexibility and judgment.
6. Have working knowledge of both remote and traditional learning environments, risk and personnel management, marketing and professionalism.
7. Show commitment to professional identity and path through involvement, interest, membership, or research, etc.

First 7 weeks of spring term	Second 7 weeks of spring term
AE 1061 Map and Compass AE 1072 Winter Pursuits 1 (optional) AE 2002 Adventure Facilitation	AE 1012 Introduction to Rock Climbing AE 2012 Challenge Course Programming PY 2113 Group Process
Entire semester course: AE 1003 Experiential Learning Initiatives	

AE 1003 Experiential Learning Initiatives (*Experiential Educators Block*)
 AE 1012 Introduction to Rock Climbing (*Experiential Educators Block*)
 AE 1061 Map and Compass (*Experiential Educators Block*)
 AE 2002 Adventure Facilitation (*Experiential Educators Block*)
 AE 2012 Challenge Course Programming (*Experiential Educators Block*)
 AE 3013 Experiential Education, Ethics and Moral Development
 AE 4003 Adventure Leadership and Programming
 AS 4333 Administration and Organization
 BI 1114 Biology: Diversity of Life
 BI 2004 Population and Community Ecology
 CM 1003 Composition and Communication I
 CM 1013 Composition and Communication II
 ED 1013 Foundations of Education
 ED 2003 Experiential Theory and Practice
 ED 2113 Instruction and Assessment Design
 IC 1001 Digital Literacy and Environmental Stewardship

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IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience
IC 2223 Environmental Issues and Insights
IC 3413 Environmental Scenarios and Solutions
MA 2243 Elementary Statistics
PF 1023 Interpretation of Natural and Cultural Heritage
PY 1013 Introduction to Psychology
PY 2113 Group Process and Management (*Experiential Educators Block*)
An Internship (minimum 3 credits at or above the 3000 level)
A Humanities course
An Arts course
A “Community-based Learning” course

Complete one of the following:

BI 3323 Conservation Biology
FY 2043 Dendrology
WF 1003 North American Wildlife

Complete one of the following:

GL 1003 Physical Geology
GL 1013 Weather and Climate
GL 2003 Environmental Geology

Complete 6 additional credits from one of the following options:

Art Option:

AR 1013 Drawing
AR 1023 Ceramics
AR 2013 Painting
AR 2023 Photography
AR 2033 Sculpture
CM 3113 Documentary Film

Animals in Education Option:

WF 1003 North American Wildlife
WF 1013 Intro to Wildlife Care and Education
WF 2003 Animal Training
WF 3023 Enrichment and Exhibit Design

Technical or Physical Skills Option:

AE 1002 Food, Fitness and Outdoor Cooking
AE 1032 Introduction to Backpacking
AE 1062 Introduction to Canoeing
AE 2022 Introduction to Expedition Kayaking
AE 2032 Technical Winter Mountaineering
AE 2042 Winter Pursuits Level 2
AE 2122 Intermediate Rock Climbing

Special Populations Option:

AE 3233 Adventure Therapy Programs
ED 3333 Education for the Exceptional Child and Youth
ED 3342 Exceptional and Universal Programs
PY 2013 Human Development
PY 3013 Human Sexuality
PY 3133 Abnormal Psychology
PY 4223 Counseling Theories for Wilderness Programming

Science Option:

BI 3283 Ornithology
BI 3323 Conservation Biology
ES 3183 Limnology
FY 2043 Dendrology
GL 1003 Physical Geology
GL 2003 Environmental Geology
WF 1002 Introduction to Wildlife and Fisheries
Conservation
WF 1003 North American Wildlife

College Wide Requirements: A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

Adventure Therapy Bachelor of Science

Adventure Therapy is a specialized field of psychology that uses outdoor adventure to promote interpersonal, social and psychological wellness and change. The Bachelor of Science degree in Adventure Therapy is designed to provide students the expertise, dispositions, and experience to obtain employment in therapeutic settings located within schools, community health services, and the wilderness. The program develops understanding of psychology and counseling theory to be used with adventure and technical skills.

Students enrolled in Adventure Therapy should expect to enroll in the *Experiential Educators Block* within the spring semester of their first year on campus. Courses will be offered in two seven week blocks allowing for students to experience consistent field based travel within the second seven week block. Students will be off-campus for 2-3 days at a time in the second half of the block.

Graduates in the B.S. in Adventure Therapy will be able to...

1. Demonstrate sufficient levels of self-awareness, adventure experience, teaching ability and leadership in the knowledge and skills that promote professional performance as an instructor/leader of A.T.
2. Analyze instructional situations to make well-advised professional and appropriate decisions/judgments in A.T. settings and be able to present written and oral arguments and justifications for such actions
3. Demonstrate knowledge, skill, disposition, understanding of leadership and followership as it relates specifically to A.T.
4. Communicate through both oral and written mediums, risk management, theoretical, and practical components of A.T.
5. Exhibit sufficient skill, knowledge and disposition, including those related to psychological counseling to engage populations served by the field of A.T.

First 7 weeks of spring term	Second 7 weeks of spring term
AE 1061 Map and Compass AE 1072 Winter Pursuits 1 (optional) AE 2002 Adventure Facilitation	AE 1012 Introduction to Rock Climbing AE 2012 Challenge Course Programming PY 2113 Group Process
Entire semester course: AE 1003 Experiential Learning Initiatives	

AE 1003 Experiential Learning Initiatives (*Experiential Educators Block*)
 AE 1012 Introduction to Rock Climbing (*Experiential Educators Block*)
 AE 1061 Map and Compass (*Experiential Educators Block*)
 AE 2002 Adventure Facilitation (*Experiential Educators Block*)
 AE 2012 Challenge Course Programming (*Experiential Educators Block*)
 AE 3013 Experiential Education, Ethics and Moral Development
 AE 3233 Adventure Therapy Programs
 AE 4003 Adventure Leadership and Programming
 CM 1003 Composition and Communication I
 CM 1013 Composition and Communication II
 ED 2003 Experiential Theory and Practice
 ED 3333 Education for the Exceptional Child and Youth
 ED 3342 Exceptional and Universal Programs
 IC 1001 Digital Literacy and Environmental Stewardship
 IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience
 IC 2223 Environmental Issues and Insights
 IC 3413 Environmental Scenarios and Solutions
 MA 2243 Elementary Statistics
 PY 1013 Introduction to Psychology

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PY 2013 Human Development
PY 2113 Group Process (*Experiential Educators Block*)
PY 3133 Abnormal Psychology
PY 4223 Counseling Theories for Wilderness Programming
An Internship (minimum 3 credits at or above the 3000 level)
A Life Science course
A Physical Science course
A Humanities course
An Arts course
A “Community-based Learning” course

An additional four credits of technical skills from the following:

AE 1002 Food, Fitness and Outdoor Cooking	AE 2032 Technical Winter Mountaineering
AE 1032 Introduction to Backpacking	AE 2042 Winter Pursuits Level 2
AE 1062 Introduction to Canoeing	AE 2122 Intermediate Rock Climbing
AE 1072 Winter Pursuits Level 1	AE 308X Expeditionary Assistant
AE 2022 Introduction to Expedition Kayaking	

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Art and Environment Bachelor of Arts

The B.A. in Art and Environment program prepares graduates to be authentic artists who literally change the way people see environmental issues. From climate change to biodiversity loss, from personal sustainability to environmental justice, Art and Environment majors present their vision of what is possible and inspire action. Unlike any other art program, Art and Environment integrates environmental studies and sciences, studio and applied arts, and media. Through their grasp of environmental issues, their solid scientific education, and their ability to create, communicate, and inspire, Art and Environment graduates are well prepared for careers as sustainability innovators, communications specialists, independent artists, and for graduate school in media or fine art.

Graduates in the B.A. in Art and Environment will be able to...

1. Cultivate authenticity as artists through creative process- making and analysis, participating in the larger arts world, building networks and community, and promoting their own work.
2. Display a thorough grounding in environmental and/or social sciences: knowledge, methods, and public issues
3. Continually develop and demonstrate critical thinking skills (conceptual rigor, flexibility, questioning assumptions, making value judgments, executing concepts, problem-solving, fluency in shifting between scientific and artistic ways of knowing, finding solutions outside the box)
4. Demonstrate fluency in traditional, contemporary, and emerging media languages. Students communicate authentic, well-crafted insights through their work and are prepared to participate in the greater community and world and the larger arts world

AR 1013 Drawing

AR 1023 Ceramics **or** AR 2033 Sculpture

AR 2013 Painting

AR 2023 Photography

AR 4013 Senior Exhibition

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

CM 2123 Environmental Communication

CM 2233 Digital Media Production

HU 3133 Art History

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

An Art-related Internship

A Mathematics course

A Life Science course

A Physical Science course

A “Community-based Learning” course

Complete one of the following:

AR 3013 Advanced Painting

AR 3023 Advanced Ceramics

AR 3033 Environmental Photography

AR 3213 Advanced Drawing

AR 3223 Advanced Sculpture

Complete nine additional credits from the following:

AR 2103 Art Exploration: Theme

AR 3013 Advanced Painting

AR 3023 Advanced Ceramics

AR 3033 Environmental Photography

AR 3043 Designing with Nature

AR 3213 Advanced Drawing

AR 3223 Advanced Sculpture

CM 3113 Documentary Film

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Complete one of the following Environmental Issues Options:

Biodiversity Option:

BI 1114 Biology: Diversity of Life
BI 2004 Population and Community Ecology
BI 3323 Conservation Biology

One of the following:

BI 1213 Biology in Practice: Theme-based
BI 2033 Marine Biology
BI 3153 Systematic Botany
BI 3173 Animal Behavior
BI 3233 Ichthyology
BI 3243 Herpetology
BI 3253 Invertebrate Zoology
BI 3273 Mammalogy
BI 3283 Ornithology
BI 3293 Entomology
BI 3423 Evolution
FY 2043 Dendrology

Climate Change Solutions Option:

GL 1013 Weather and Climate
GL 4003 Global Change
PS 3003 Sustainable Energy
PS 3303 Green Building: Assess, Design, Retrofit

Wildlife Management Option:

BI 2004 Population and Community Ecology
WF 1003 North American Wildlife
WF 3013 Population Assessment and Management
WF 3103 Habitat Assessment and Management

Sustainable Societies Option:

AN 1123 Cultural Anthropology
AN 2113 Society and Sustainability
EC 2003 Intro to Economics and Econ. Criticism
HU 3113 Global Environmental History

Advocacy Option:

PL 1013 American Democracy
PL 2013 State and Local Government
PL 3413 Environmental Advocacy
One of the following:
PL 3213 Natural Resource Law
PL 4413 Natural Resource Policy

Food and Farms Option:

BI 3063 Agroecology
PL 3013 Issues in Food and Agriculture
SA 1003 Fundamentals of Organic Horticulture
SA 2113 Sustainable Agriculture Systems

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Biology Bachelor of Science

The Biology program provides opportunities for students who are fascinated with living organisms to develop their passion. All Biology majors gain a foundational knowledge of cellular, organismal, and ecological aspects of biology that are necessary for any type of biologist. The Biology program then allows students to specialize in an area that most interests them by selecting either the Organismal or Ecological option and choosing courses within their option to meet their needs. In addition to the knowledge of cells, organisms, populations, and ecosystems, the Biology program prepares students to be professionals through practice with lab and field skills, use of the scientific process, and scientific communication. Biology graduates are ready to take on issues of biodiversity loss, habitat degradation, invasive species, and global change and can become foresters, zoologists, botanists, conservation biologists, educators, environmental consultants, fisheries biologists, ecologists, park rangers, game wardens, science writers, and more. Students wishing to pursue graduate studies should consider completing the Graduate School Core for Biological Sciences in addition to their Biology curriculum.

Graduates of the B.S. in Biology will be able to:

1. Understand and articulate central ideas and foundational assumptions of evolution and ecology.
2. Understand and explain the fundamental processes of cellular and organismal biology.
3. Integrate and properly cite primary scientific literature in a written document
4. Be proficient with microscopy and other appropriate lab and field techniques.
5. Complete a scientific research experience, including hypothesis development, experimental design, data collection and analysis, and communicate results in the appropriate scientific style.

BI 1114 Biology: Diversity of Life

BI 1213 Biology in Practice: Theme-based

BI 2004 Population and Community Ecology

BI 2304 Cell Biology

BI 3204 Comparative Animal Physiology **or** BI 2214 Biology of Plants

BI 4703 Biodiversity Capstone

CH 1104 General Chemistry I

CH 1114 General Chemistry II

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

MA 2243 Elementary Statistics

MA 2333 Calculus I **or** MA 3263 Biometry

A Humanities course

A Social Science course

An Arts course

A “Community-based Learning” course

An Internship **or** Senior Thesis I and II (UC 4003 & UC 4013) **or** Academic Field Experience (minimum 3 credits at or above the 3000 level)

One of the following:

CH 2324 Organic Chemistry

CH 4034 Biochemistry

CH 4044 Environmental Chemistry

One of the following:

ES 3013 Oceanography

GL 1003 Physical Geology

GL 2003 Environmental Geology

GL 4003 Global Change

PS 2004 Physics: Mechanics and Energy

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One of the following Options:

Organismal Option

BI 3204 Comparative Animal Physiology
BI 2214 Biology of Plants

And 3 of the following:

BI 2033 Marine Biology
BI 3153 Systematic Botany
BI 3173 Animal Behavior
BI 3233 Ichthyology
BI 3243 Herpetology
BI 3253 Invertebrate Zoology
BI 3263 Special Topics in Biology
BI 3273 Mammalogy
BI 3283 Ornithology
BI 3293 Entomology
BI 3423 Evolution
BI 3654 Microbiology
BI 4033 Marine Mammalogy
BI 4243 Genetics and Molecular Biology
ES 2103 Introduction to GIS
FY 2043 Dendrology
WF 3013 Population Assessment and Mgmt.
WF 4034 Animal Health

Ecological Option

BI 3423 Evolution
BI 4423 Ecosystem Ecology

And 3 of the following:

BI 2033 Marine Biology
BI 3153 Systematic Botany
BI 3063 Agroecology
BI 2214 Biology of Plants
BI 3263 Special Topics in Biology
BI 3293 Entomology
BI 3323 Conservation Biology
BI 3654 Microbiology
BI 4243 Genetics and Molecular Biology
ES 2103 Introduction to GIS
ES 3013 Oceanography
ES 3183 Limnology
ES 3213 Applied GIS
FY 2043 Dendrology
GL 3433 Soil Science
PL 4413 Natural Resource Policy
WF 3013 Population Assessment and Mgmt.

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Captive Wildlife Care and Education Bachelor of Science

This program is designed for students interested in careers related to the care and husbandry of wild species in captivity and education of the public concerning conservation issues. Students receive a solid foundation in the biological sciences, specialized courses related to wild animal husbandry and management, and classes that develop educational and interpretive techniques. Target employers include zoos, aquariums, rehabilitation, and wildlife education facilities.

Graduates in the B.S. in Captive Wildlife Care and Education will be able to...

1. Explain the science behind the art of animal care.
2. Provide the husbandry needs of various animal species.
3. Demonstrate the art of animal training and explain the supporting science.
4. Implement health management programs.
5. Gather information from a variety of sources and conduct research in fields related to wildlife.
6. Understand conservation issues and be prepared to participate in conservation efforts on a variety of levels during their careers.
7. Design education programs.
8. Display self-assured public speaking skills.
9. Demonstrate commitment to professional ethics, environmental stewardship, and citizenship.
10. Possess skills and knowledge necessary to enhance career opportunities.

BI 1114 Biology: Diversity of Life
BI 2004 Population and Community Ecology
BI 2304 Cell Biology
BI 3204 Comparative Animal Physiology
BI 3323 Conservation Biology
CH 1104 General Chemistry I
CM 1003 Composition and Communication I
CM 1013 Composition and Communication II
IC 1001 Digital Literacy and Environmental Stewardship
IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience
IC 2223 Environmental Issues and Insights
IC 3413 Environmental Scenarios and Solutions
MA 1223 Precalculus
MA 2243 Elementary Statistics
PF 1023 Interpretation of Natural and Cultural Heritage
PY 1013 Introduction to Psychology
WF 1003 North American Wildlife
WF 1013 Introduction to Wildlife Care and Education
WF 2003 Animal Training
WF 3023 Enrichment and Exhibit Design
WF 3101 Seminar in Captive Wildlife Care and Education
WF 4034 Animal Health
WF 4044 Captive Wildlife Care and Education Capstone
An Internship (minimum 3 credits at or above the 3000 level)
A Humanities course
An Arts course
A “Community-based Learning” course

One of the following:

ED 1013 Foundations of Education
ED 2003 Experiential Theory and Practice
PF 4123 Interpretive Methods

One of the following:

BI 3173 Animal Behavior
BI 3423 Evolution
BI 4243 Genetics and Molecular Biology
WF 2433 Wildlife Techniques

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One of the following:

BI 2033 Marine Biology

BI 3233 Ichthyology

BI 3243 Herpetology

BI 3273 Mammalogy

BI 3283 Ornithology

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Conservation Law Enforcement Bachelor of Science

Conservation Law Enforcement prepares students for a comprehensive understanding of fields related to resource and environmental protection. Building on a broad base of law enforcement knowledge, students learn the importance of integrating science and law into their theoretical and practical views concerning conservation of our natural resources. Active classroom and laboratory experiences focus on exciting topics like wildlife techniques, marine and wildlife law, crime scene investigation, biology and fisheries sciences. Our students gain distinct advantages from our carefully designed courses intended for careers in conservation and environmental and marine law enforcement. Successful students are employable in agencies dedicated to enforcing conservation and environmental laws at the federal, state and local level. Opportunities include positions as game wardens, natural resource officers, marine patrol officers, harbor masters, and environmental protection officers.

Graduates in the B.S. in Conservation Law Enforcement will be able to...

1. Demonstrate an understanding of the fundamental principles of the American form of government and the responsibilities of citizenship.
2. Demonstrate knowledge of the criminal justice system and the ability to perform in an ethical and professional manner.
3. Demonstrate the field-based knowledge and skills necessary to work in the natural environment.
4. Demonstrate respect for, and knowledge of law.
5. Demonstrate the ability to communicate effectively.
6. Demonstrate a commitment to environmental stewardship.
7. Demonstrate management and administration skills suitable for a conservation law enforcement professional.

AF 3324 Fisheries Science and Techniques
BI 1114 Biology: Diversity of Life
BI 2004 Population and Community Ecology
CL 1003 Introduction to Criminal Justice
CL 1013 Introduction to Conservation Law Enforcement
CL 2033 Marine Law Enforcement **or** CL 2113 Wildlife Law Enforcement
CL 2123 Community Relations and Ethics
CL 3013 Courtroom Procedure and Evidence
CL 3224 Crime Scene and Investigative Techniques
CL 4413 Law Enforcement Leadership
CL 4503 Conservation Law Capstone
CM 1003 Composition and Communication I
CM 1013 Composition and Communication II
CM 2013 Interpersonal Relations
IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience
IC 2223 Environmental Issues and Insights
IC 3413 Environmental Scenarios and Solutions
MA 2243 Elementary Statistics
WF 1003 North American Wildlife
WF 2433 Wildlife Techniques
A Physical Science course
A Humanities course
A Social Science course
An Arts course
A "Community Based Learning" course
IC 1001 Digital Literacy and Environmental Stewardship
An Internship (3 credits minimum at or above the 3000 level)

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Earth and Environmental Science Bachelor of Science

Earth and Environmental Science (EES) majors study the formation, evolution, and monitoring of the physical landscape – past, present, and future. Students will also explore interconnections between Earth systems to gain a broader understanding of the discipline and see how change may manifest itself elsewhere. Students study these systems from the small scale (e.g. molecules) to the large scale (e.g. mountain ranges) over time scales spanning from minutes (e.g. chemical reactions) to thousands of years (e.g. environmental change). Students in the EES program will learn a variety of laboratory and field skills and apply this knowledge in real world scenarios to become better prepared for graduate school and/or a career. Students participate in research projects as part of individual classes or while working directly with faculty members. Students will have considerable opportunity to develop strong Geographic Information Systems (GIS) skills and learn how to utilize other modes of technology including computer models and data loggers in lab and field pursuits. Recent Unity College EES graduates are employed professionally in analytical labs or as environmental consultants, or are continuing their studies in M.S. and Ph. D. programs around the nation.

Graduates of the B.S. in Earth and Environmental Science will be able to...

1. Identify and develop effective solutions for environmental problems
2. Perform requisite field and laboratory techniques, and/or use technology, to better understand the physical environment.
3. Collect and analyze environmental data using quantitative methods and/or GIS techniques as part of research
4. Communicate the analysis of research data and results to a chemistry/geology audience

BI 1114 Biology: Diversity of Life

CH 1104 General Chemistry I

CH 1114 General Chemistry II

CH 4044 Environmental Chemistry **or** GL 3524 Lake Sedimentation

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

ES 2103 Introduction to Geographic Information Systems (GIS)

ES 3213 Applied Geographic Information Systems (GIS)

GL 1003 Physical Geology

GL 1013 Weather and Climate

GL 2003 Environmental Geology

GL 3044 Surface and Groundwater Hydrology

GL 3223 Geomorphology

GL 3433 Soil Science

GL 4003 Global Change

GL 4011 Earth and Environmental Sciences Seminar: Theme

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

MA 2243 Elementary Statistics

MA 2333 Calculus I

PS 2004 Physics: Mechanics and Energy

PS 2014 Physics: Heat, Electricity and Magnetism

A Humanities course

A Social Science course

An Arts course

A “Community-based Learning” course

An Internship **or** Senior Thesis I and II (UC 4003 & UC 4013) **or** Academic Field Experience (minimum 3 credits at or above the 3000 level)

College Wide Requirements: A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

Environmental Policy, Law, and Society Bachelor of Science

The Environmental Policy, Law, and Society program is designed to give students the tools and knowledge needed to improve the environmental health of both humans and the natural world through wise governmental and non-governmental decision making. Studies in law, science, social science, environmental ethics, and history provide an interdisciplinary framework for understanding and analyzing the broad range of factors that play a role in environmental policy formation. The program partners with environmental and conservation agencies, non-profits, and green enterprise, to model, as well as train students in, the practical application of concepts and methods for civic engagement and policy decision-making. Employment opportunities in environmental policy and law are expected to increase in the near future in the public, private, and non-profit sectors.

Graduates of the B.S. in Environmental Policy, Law, and Society will be able to...

1. Develop effective policy approaches to environmental problems, integrating knowledge of political process, the American legal system, economics, science, and history.
2. Communicate policy approaches to environmental problems at a level suitable for professional service and graduate studies.
3. Understand, analyze, and integrate environmental policy and legal concepts at a level appropriate for professional service and graduate studies.
4. Demonstrate ability and commitment to work collaboratively to achieve a civic aim accompanied by reflective insights or analysis about the aim and accomplishment of one's actions.

BI 1114 Biology: Diversity of Life
BI 2004 Population and Community Ecology
CH 1104 General Chemistry I
CM 1003 Composition and Communication I
CM 1013 Composition and Communication II
EC 2003 Introduction to Economics and Economic Criticism
EC 3003 Ecological Economics
ES 2103 Introduction to Geographic Information Systems (GIS)
GL 2003 Environmental Geology
HU 2003 American Environmental History
IC 1001 Digital Literacy and Environmental Stewardship
IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience
IC 2223 Environmental Issues and Insights
IC 3413 Environmental Scenarios and Solutions
MA 1223 Pre-calculus **or** MA 2333 Calculus I
MA 2243 Elementary Statistics
PL 1013 American Democracy
PL 2013 State and Local Government
PL 3213 Natural Resource Law
PL 3233 Environmental Law
PL 3413 Environmental Advocacy
PL 4413 Natural Resource Policy
SY 3193 International Development and Sustainability
An Internship (minimum 3 credits at or above the 3000 level)
An Arts course
A "Community-based Learning" course

Complete one of the following:

BI 3323 Conservation Biology
BI 4423 Ecosystem Ecology
CH 4044 Environmental Chemistry

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Environmental Writing and Media Studies Bachelor of Arts

The Bachelor of Arts in Environmental Writing and Media Studies offers students the opportunity to explore modes of self-expression, master techniques necessary to advocate for the environment, and produce compelling media. Graduates combine a broad-based liberal arts education with focused training in creative writing, journalism, and writing for social or biological sciences. Environmental Writing and Media Studies majors produce effective websites, powerful documentary films, and strategic social media. Emphases on experiential learning, writing and editing as a process, and the development of a unique voice offer students the tools necessary for a variety of careers in the environment. Graduates from the program are well prepared to serve as environmental journalists, and professional writers for nonprofit organizations, media content developers, or independent filmmakers. The Bachelor of Arts in Environmental Writing and Media Studies also serves as excellent preparation for law school, graduate programs, film and media school, or advanced creative writing programs.

Graduates in the B.A. in Environmental Writing and Media Studies will be able to...

1. Demonstrate proficiency in the craft of writing: a. genres, b. audience, c. modes
2. Demonstrate ability to think critically about texts: a. critique, b. analyze, c. assess, d. interpret
3. Demonstrate ability to engage readers in environmental issues
4. Demonstrate the ability to navigate new and emerging media and publication venues
5. Understand contemporary environmental issues

AR 2113 Creative Writing

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

CM 2123 Environmental Communication

CM 2233 Digital Media Production

CM 3113 Documentary Film

CM 3123 New Media

CM 3333 Environmental Journalism

EH 1123 Environmental World Literature

EH 2213 Introduction to Environmental Writing

EH 3213 Professional and Technical Writing: Theme (*complete two different themes*)

EH 4213 Writing for Publication

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

PL 3413 Environmental Advocacy

UC 4023 Creative Thesis **or** Internship

A Mathematics course

A Life Science course

A Physical Science course

A "Community-based Learning" course

Complete one of the following Environmental Issues Options:

Advocacy Option:

PL 1013 American Democracy

PL 2013 State and Local Government

PL 3213 Natural Resource Law

PL 4413 Natural Resource Policy

Climate Change Solutions Option:

GL 1013 Weather and Climate

GL 4003 Global Change

PS 3003 Sustainable Energy

PS 3303 Green Building: Assess, Design, Retrofit

Food and Farms Option:

BI 3063 Agroecology

PL 3013 Issues in Food and Agriculture

SA 1003 Fundamentals of Organic Horticulture

SA 2113 Sustainable Agriculture Systems

Sustainable Societies Option:

AN 1123 Cultural Anthropology

AN 2113 Society and Sustainability

EC 2003 Intro to Economics and Econ. Criticism

HU 3113 Global Environmental History

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Biodiversity Option:

BI 1114 Biology: Diversity of Life
BI 2004 Population and Community Ecology
BI 3323 Conservation Biology

One of the following:

BI 1213 Biology in Practice: Theme-based
BI 2033 Marine Biology
BI 3153 Systematic Botany
BI 3173 Animal Behavior
BI 3233 Ichthyology
BI 3253 Invertebrate Zoology
BI 3273 Mammalogy
BI 3283 Ornithology
BI 3293 Entomology
BI 3423 Evolution
FY 2043 Dendrology

Wildlife Management Option:

BI 2004 Population and Community Ecology
WF 1003 North American Wildlife
WF 3013 Population Assessment and Management
WF 3103 Habitat Assessment and Management

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Marine Biology Bachelor of Science

The Marine Biology program provides dedicated, engaged students with specialized knowledge of marine organisms and marine ecosystems. Marine Biology majors gain a solid foundation in the biological sciences while specializing in the unique characteristics of marine life. Students of this program are prepared to be professional biologists ready to take on the issues of biodiversity loss, over exploitation of marine resources, marine habitat loss and degradation, invasive species, and other issues in need of passionate leaders educated in the science of marine biology. Graduates are prepared to enter marine or other biological careers and may work for aquariums, conservation organizations, government agencies, or researchers as field or lab technicians, or they may go on to graduate school to pursue their own research areas. Students wishing to pursue graduate studies in marine biology should consider completing the Graduate School Core for Biological Sciences in addition to the Marine Biology curriculum.

Graduates of the B.S. in Marine Biology will be able to:

1. Characterize the phylogenetic, morphological, and physiological diversity of marine organisms, from microbes to marine mammals.
2. Understand and explain how concepts of ecology and evolution apply to marine organisms and habitats.
3. Integrate and properly cite primary scientific literature in a written document.
4. Be proficient with appropriate lab and field techniques.
5. Complete a marine scientific research experience, including hypothesis development, experimental design, data collection and analysis, and communicate results in the appropriate scientific style.

BI 1114 Biology: Diversity of Life

BI 1213 Biology/Marine Biology in Practice: Theme-based

BI 2004 Population and Community Ecology

BI 2013 Marine Fisheries

BI 2033 Marine Biology

BI 2304 Cell Biology

BI 3053 Marine Botany

BI 3111 Themes in Marine Science

BI 3253 Invertebrate Zoology

BI 4023 Coral Ecology and Management

BI 4033 Marine Mammalogy

BI 4703 Biodiversity Capstone

CH 1104 General Chemistry I

CH 1114 General Chemistry II

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

ES 3013 Oceanography

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience or IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

MA 2243 Elementary Statistics

MA 2333 Calculus I

An Internship (Marine Themed) or Senior Thesis I and II (UC 4003 & UC 4013) or Academic Field Experience (minimum 3 credits at or above the 3000 level)

A Humanities course

A Social Science course

An Arts course

A “Community-based Learning” course

BI 3423 Evolution or BI 4243 Genetics and Molecular Biology

One of the following:

CH 2324 Organic Chemistry

CH 4034 Biochemistry

PS 2004 Physics: Mechanics and Energy

PS 2014 Physics: Heat, Electricity and Magnetism

College Wide Requirements: A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

Parks and Forest Resources Bachelor of Science

The Parks and Forest Resources degree prepares students with a comprehensive look at land management, with particular attention to forests and parks. This program will provide students with a foundation in the fundamentals of resource and visitor management practices utilized in the governmental, nonprofit and for-profit sectors. Students will integrate the sciences with resource management, planning, policy, and administrative skills to be informed stewards of our natural resources. Successful graduates meet the entry requirements for employment in federal, state, local, nonprofit, and for-profit land management agencies/organizations. Students are prepared with the skills and educational background to be successful in organizations such as: the National Park Service, U.S. Forest Service, State Park and Forest agencies, local and regional parks and land management agencies, land trusts, and for-profit land management consultants/organizations.

Graduates in the B.S. in Parks and Forest Resources will be able to...

1. Communicate effectively in oral and written formats.
2. Demonstrate knowledge of land management and protection agencies and the ability to work as a professional within them.
3. Demonstrate management and administration skills suitable for a Parks and Forest Resources professional.
4. Demonstrate a commitment to sustainable stewardship and ecotourism.
5. Demonstrate a commitment to citizenship.

AS 2111 Professional Development
AS 4333 Administration and Organization
BI 1114 Biology: Diversity of Life
BI 2004 Population and Community Ecology
CM 1003 Composition and Communication I
CM 1013 Composition and Communication II
ES 1003 Introduction to Natural Resources
ES 2103 Introduction to Geographic Information Systems (GIS)
FY 2043 Dendrology
FY 3223 Forest Ecology
FY 4003 Forests and Society
IC 1001 Digital Literacy and Environmental Stewardship
IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience
IC 2223 Environmental Issues and Insights
IC 3413 Environmental Scenarios and Solutions
MA 2243 Elementary Statistics
PF 1023 Interpretation of Natural and Cultural Heritage
PF 4223 Park and Forest Resource Planning
PL 3213 Natural Resource Law **or** PL 3233 Environmental Law
PL 4413 Natural Resource Policy
WF 1003 North American Wildlife
A Humanities course
A Physical Science course
A "Community-based Learning" course
An Arts course
An Internship (minimum 3 credits at or above the 3000 level)

Complete one of the following options:

Park & Visitor Management Option:

EH 3213 Technical Writing
PF 2123 Sustainable Ecotourism
PF 3213 Visitor and Resource Protection
PF 4123 Interpretive Methods

One of the following:

AR 2023 Photography
AR 1013 Drawing

Resource Management Option:

EC 2013 Environmental Economics
ES 1031 Introduction to GPS
ES 3213 Applied Geographic Information Systems (GIS)
FY 2013 Forest Measurements
FY 2163 Fire Ecology and Management
FY 4213 Silviculture

College Wide Requirements: A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

Sustainable Agriculture Bachelor of Science

The B.S. in Sustainable Agriculture is designed to prepare students for future study and careers in the expanding fields of sustainable agriculture and food systems. The program emphasizes small-scale, local, sustainable agriculture, blending applied knowledge of plants and soils, the context of environmental change, and skills necessary to problem solve and advocate for the role of agriculture in healthy communities.

Graduates of the B.S. in Sustainable Agriculture will be able to....

1. Apply fundamental concepts and principles of biology and agroecology to improve food production in an era of global change.
2. Think critically about food and agriculture systems.
3. Communicate effective approaches to food systems at a level appropriate for professional service or graduate school.

BI 1114 Biology: Diversity of Life
BI 3063 Agroecology
BI 2214 Biology of Plants
BU 3243 Entrepreneurship for a Better World
CH 1104 General Chemistry I
CH 1114 General Chemistry II
CM 1003 Composition and Communication I
CM 1013 Composition and Communication II
EC 3003 Ecological Economics
HU 2003 American Environmental History
IC 1001 Digital Literacy and Environmental Stewardship
IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience
IC 2223 Environmental Issues and Insights
IC 3413 Environmental Scenarios and Solutions
MA 1223 Precalculus
MA 2243 Elementary Statistics
PL 3013 Issues in Food and Agriculture
PL 3413 Environmental Advocacy
SA 1003 Fundamentals of Organic Horticulture
SA 2013 Livestock and Pasture Management
SA 2023 Sustainable Pest Management **or** WF 4034 Animal Health
SA 2113 Sustainable Agriculture Systems
SA 3363 Soil Fertility
SA 4014 Sustainable Agriculture Project
An Internship (minimum 3 credits at or above the 3000 level)
An Arts course
A “Community-based Learning” course

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Sustainable Business Enterprise Bachelor of Science

Unity College recognizes that successful business ventures must operate within boundaries defined by both the natural and human capital of the earth's ecosystems. Our goal is to prepare innovative business leaders and managers, with the ability to build and manage commercial, non-profit, and government enterprises that effectively steward natural resources while maintaining financial prosperity. The Sustainable Business Enterprise program is designed to give students the skills and experiences needed to start and run successful sustainable business and social enterprises, or to work for existing enterprises in a leadership or managerial position. This degree program leverages Unity College's expertise in sustainability leadership, combined with our position at the nexus of a large network of successful sustainable business and social enterprises, to synergize knowledge, learning, and application for our students.

Students take one of four tracks, including International Sustainable Development, Sustainable Energy Management, Sustainable Agriculture, or Sustainable Tourism and Adventure-Based Experiences.

Graduates of the B.S. in Sustainable Business Enterprise will be able to....

1. Understand key concepts of sustainability science and apply decision support tools for addressing challenges at the interface of economy, society, and environment.
2. Explain the concept of marketing and understand how marketing strategies interface with sustainability both in theory and practice.
3. Demonstrate quantitative reasoning and accounting skills and relate them to sustainability practice.
4. Demonstrate understanding of the basic management functions of planning, organizing, leading, and controlling, to achieve a sustainable business plan and organizational outcomes.
5. Generate, analyze, and interpret financial information to assess financial and sustainability goals.
6. Apply integrated knowledge of business concepts and functions to elucidate sustainability strategies both in established companies and entrepreneurial ventures.
7. Identify salient factors to analyze local, regional, national, and global business contexts, particularly with regard to sustainable development.
8. Apply ethical decision making to all facets of a business enterprise and demonstrate a socially responsible worldview.
9. Demonstrate effective written and oral communication skills.
10. Manage stakeholder relations and develop the ability to work effectively and collaboratively in teams.

AR 3043 Designing with Nature
BI 1114 Biology: Diversity of Life
BI 3063 Agroecology
BU 1133 Sustainable Financial Management
BU 2233 Managerial and Environmental Accounting
BU 2513 Marketing and Mindset
BU 3252 Resolving Environmental Challenges
BU 3223 Sustainability, Ethics and Corporate Social Responsibility
BU 3243 Entrepreneurship for a Better World
BU 3273 Sustainability Management and Leadership
BU 4443 Business Capstone in Strategic Management
CM 1003 Composition and Communication I
CM 1013 Composition and Communication II
EC 2003 Introduction to Economics and Economic Criticism
EC 3003 Ecological Economics
IC 1001 Digital Literacy and Environmental Stewardship
IC 1112 Unity Experience or IC 1111 Unity Transfer Experience
IC 2223 Environmental Issues and Insights
IC 3413 Environmental Scenarios and Solutions
MA 2243 Elementary Statistics

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PL 4413 Natural Resource Policy
SY 3193 International Development and Sustainability
A Sustainable Business Enterprise-Related Internship (minimum 3 credits at or above the 3000 level)

Take one of the following options:

International Sustainable Development Option

AN 2113 Society and Sustainability
HU 3113 Global Environmental History
PL 2033 World Politics
A physical science course

Sustainable Agriculture Option

PL 3013 Issues in Food and Agriculture
SA 2113 Sustainable Agriculture Systems
SA Choose one additional SA course
A physical science course
A humanities course

Sustainable Energy Management Option

GL 4003 Global Change
PS 2004 Physics: Mechanics and Energy
PS 3003 Sustainable Energy
PS 3303 Green Building
A humanities course

Sustainable Tourism Option

AN 2113 Society and Sustainability
PF 2123 Sustainable Ecotourism
PF 4223 Park and Forest Resource Planning
A physical science course
A humanities course

College Wide Requirements: A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

Sustainable Business Enterprise Bachelor of Science: Degree Completion

An associate degree in business or related field from a list of approved colleges (see page 6) with whom Unity has an articulation agreement is required to enter the degree completion program.

Associate degree in business or a related field from an approved college

BI 3063 Agroecology

BU 3252 Resolving Environmental Challenges

BU 3223 Sustainability, Ethics and Corporate Social Responsibility

BU 3243 Entrepreneurship for a Better World

BU 3273 Sustainability Management and Leadership

BU 4433 Business Capstone in Strategic Management

EC 3003 Ecological Economics

IC 3413 Environmental Scenarios and Solutions

PL 4413 Natural Resource Policy

SY 3193 International Development and Sustainability

A Sustainable Business Enterprise-Related Internship (minimum 3 credits at or above the 3000 level)

Complete one of the following options:

International Sustainable Development Option

AN 2113 Society and Sustainability
HU 3113 Global Environmental History
PL 2033 World Politics

Sustainable Energy Management Option

GL 4003 Global Change
PS 3003 Sustainable Energy
PS 3303 Green Building

Sustainable Agriculture Option

PL 3013 Issues in Food and Agriculture
SA 2113 Sustainable Agriculture Systems
SA Choose one additional SA course

Sustainable Tourism Option

AN 2113 Society and Sustainability
PF 2123 Sustainable Ecotourism
PF 4223 Park and Forest Resource Planning

College Wide Requirements: A minimum of 120 earned credit hours (including associate's degree), 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

Sustainable Energy Management Bachelor of Science

This program allows students to develop their talents and skills as applied scientists, entrepreneurs, business managers, and planners in the fields of energy efficiency, renewable energy, and related responses to climate change. Emphasis is placed on practical skills based on solid general theory, on understanding and employing technology, on practical implementation and related accounting for costs and benefits. Students learn to both evaluate and implement emerging technologies and design, quantify, and account for programs of energy efficiency and climate emission reductions. Remunerative and useful employment for these skills can be found at different scales and sectors of society: for government and in science research, for industry and private businesses, and for communities and individual households via contracting or energy auditing. Upon graduation, students may choose work in the emerging job market in government sustainability implementation and planning, to work as lobbyists and advocates in the same arena, to work in the housing market as implementers and auditors of sustainability and energy efficiency measures, to work in industry as environmental compliance officers, sustainability coordinators or sustainability officers, or to go on to graduate school in the fields of public policy, planning, architecture, environmental law, environmental and industrial design, or climate mitigation. In the event that the student chooses not to work in the energy field they are competitive candidates to enter graduate school programs in business or science, or to apply their problem solving and quantitative skills to some other aspect of business or governance.

Graduates of the B.S. in Sustainable Energy Management will be able to...

1. Use fundamental principles of matter and energy to solve practical problems of energy and climate.
2. Communicate at a technical level suitable for professional service.
3. Be competent in the use of modeling, spatial, and quantitative reasoning for professional service.

BI 1114 Biology: Diversity of Life

BI 2004 Population and Community Ecology

BU 3273 Sustainability Management and Leadership

BU 3223 Sustainability, Ethics and Corporate Social Responsibility

CH 1104 General Chemistry I

CH 1114 General Chemistry II **or** PS 2014 Physics: Heat, Electricity and Magnetism

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

EC 2003 Introduction to Economics and Economic Criticism

EC 3003 Ecological Economics

GL 4003 Global Change

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

MA 1223 Precalculus **or** MA 2333 Calculus I

MA 2243 Statistics I

PL 1013 American Democracy **or** PL 2013 State and Local Government

PL 3233 Environmental Law

PL 3413 Environmental Advocacy

PL 4413 Natural Resource Policy

PS 2004 Physics: Mechanics and Energy

PS 3003 Sustainable Energy

PS 3303 Green Building: Assess, Design, Retrofit

A Humanities course

An Arts course

A "Community-based Learning" course

An Internship **or** Senior Thesis I and II (UC 4003 & UC 4013) **or** Academic Field Experience (minimum 3 credits at or above the 3000 level)

College Wide Requirements: A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

Wildlife Biology Bachelor of Science

The Wildlife Biology program immerses students into the depths of wildlife science. Students who are serious about researching the biology and habitats of our free-ranging wild mammals and birds receive a solid background of biological and ecological knowledge for sustaining populations in our ever-changing environment. Program courses include a full suite of wildlife courses such as North American Wildlife and Wildlife Habitat and Assessment, plus advanced biological and ecological science courses such as Cell Biology, Comparative Animal Physiology, Evolution, and Ecosystem Ecology. Graduates of the Wildlife Biology program are qualified to pursue careers as wildlife biologists and technicians; however, they are encouraged to pursue further education in graduate degree programs to enhance their ability to be successful in the highly competitive field of wildlife research. Students wishing to pursue graduate studies should also consider completing the Graduate School Core for Biological Sciences in addition to their Wildlife Biology curriculum.

Graduates in the B.S. in Wildlife Biology will be able to...

1. Demonstrate proficiency in identification of species, sex, and age of common North American wildlife.
2. Demonstrate ability to successfully perform common wildlife management field skills.
3. Demonstrate the ability to apply theoretical concepts to wildlife management problems.
4. Communicate effectively in a professional style or manner.
5. Demonstrate understanding of professional behavior and ethics.
6. Identify and evaluate essential components of wildlife management plans.
7. Demonstrate ability to apply modern analytical tools to management questions.

BI 1114 Biology: Diversity of Life

BI 2004 Population and Community Ecology

BI 2304 Cell Biology

BI 2214 Biology of Plants

CH 1104 Chemistry I

CH 1114 Chemistry II

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

ES 2103 Introduction to Geographic Information Systems (GIS)

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

MA 2243 Elementary Statistics

MA 2333 Calculus I

MA 3263 Biometry

PL 3213 Natural Resource Law

WF 1002 Introduction to Wildlife and Fisheries Conservation

WF 2433 Wildlife Techniques

WF 3013 Population Assessment and Management

WF 3103 Habitat Assessment and Management

WF 4013 Wildlife Conservation Capstone

A Humanities course

An Arts course

A "Community-based Learning" course

A Wildlife-Related Internship **or** Senior Thesis I and II (UC 4003 & UC 4013) **or** Academic Field Experience (minimum 3 credits at or above the 3000 level)

Choose one:

BI 3323 Conservation Biology

BI 3423 Evolution

BI 4423 Ecosystem Ecology

Choose two:

BI 3233 Ichthyology

BI 3243 Herpetology

BI 3273 Mammalogy

BI 3283 Ornithology

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Choose one:

BI 3153 Systematic Botany
BI 3204 Comparative Animal Physiology
BI 4243 Genetics and Molecular Biology
CH 2324 Organic Chemistry
CH 4034 Biochemistry
CH 4044 Environmental Chemistry

ES 3213 Applied Geographic Information Systems
GL 2003 Environmental Geology
GL 3433 Soil Science: Principles and Applications
GL 4003 Global Change
MA 3443 Calculus II
PS 2004 Physics: Mechanics and Energy

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Wildlife and Fisheries Management Bachelor of Science

This Wildlife and Fisheries Management Program builds from the core Unity Environmental Stewardship Curriculum, providing a broad interdisciplinary knowledge base for environmental leaders, integrates quantitative skills with social sciences and communications, and develops student ethics and dispositions to become professional leaders for wildlife and fisheries conservation. Graduates will have mastered knowledge of ecological and biological principles that underpin the disciplines of wildlife and fisheries management. This knowledge base develops from coursework in population and community ecology, population assessment, habitat assessment, and resource modeling. In addition, all wildlife and fisheries majors will have experiential learning in the techniques and practices of wildlife and fisheries management and will be familiar with the concepts that underlie manipulations of wild populations and their environment to maintain these sustainable resources. Students then choose between the concentrated studies in their chosen management discipline: wildlife or fisheries. Graduates of these programs are qualified for entry into the wildlife and fisheries professions as field biologists or technicians. The fisheries concentration allows graduates additional opportunity with cultured food and industrial products as algae, shellfish, crustaceans, and finfish.

Graduates in the B.S. in Wildlife and Fisheries Management will be able to...

1. Demonstrate competency in the concepts and skills underlying the biological sciences.
2. Understand and study resource management and protection issues through using primary literature, experimental design, field and lab techniques, and data analysis.
3. Demonstrate competency in oral communication, scientific writing, problem solving, and quantitative reasoning.
4. Gain life-long learning skills and perspective developed through a liberal-arts education.
5. Demonstrate ability to apply their scientific knowledge and skills to solving natural resource management and protection issues in their chosen profession and in life as a knowledgeable citizen.

BI 1114 Biology: Diversity of Life

BI 2004 Population and Community Ecology

BI 2214 Biology of Plants

CH 1104 Chemistry I

CM 1003 Composition and Communication I

CM 1013 Composition and Communication II

ES 2103 Introduction to Geographic Information Systems (GIS)

IC 1001 Digital Literacy and Environmental Stewardship

IC 1112 Unity Experience **or** IC 1111 Unity Transfer Experience

IC 2223 Environmental Issues and Insights

IC 3413 Environmental Scenarios and Solutions

GL 2003 Environmental Geology **or** PS 2004 Physics: Mechanics and Energy

MA 1223 Pre-calculus

MA 2243 Elementary Statistics

MA 3253 Applied Statistics

PL 3213 Natural Resource Law

WF 1002 Introduction to Wildlife and Fisheries Conservation

WF 3013 Population Assessment and Management

WF 3103 Habitat Assessment and Management

WF 4013 Wildlife Conservation Capstone

A Wildlife-Related Internship **or** Senior Thesis I and II (UC 4003 & UC 4013) **or** Academic Field Experience (minimum 3 credits at or above the 3000 level)

An Arts course

A Humanities course

A "Community-based Learning" course

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Complete one of the following:

BU 3223 Sustainability Ethics and Corporate Social Responsibility

AS 4333 Administration and Organization

EC 2013 Environmental Economics

Complete either the Wildlife or Fisheries options below:

Wildlife Option:

BI 3153 Systematic Botany or FY 2043 Dendrology

FY 2013 Forest Measurements

WF 2433 Wildlife Techniques

Complete two of the following:

BI 3273 Mammalogy

BI 3283 Ornithology

BI 3243 Herpetology

Fisheries Option:

AF 3324 Fisheries Science and Techniques

BI 2013 Marine Fisheries

BI 2111 Themes in Fisheries and Aquaculture

BI 3233 Ichthyology

Complete one of the following:

BI 3293 Entomology

BI 3253 Invertebrate Zoology

ES 3013 Oceanography

ES 3183 Limnology

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 3000 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*

Academic Minors

Applied Mathematics and Statistics

A minor in Applied Math and Statistics will familiarize students with techniques and applications of mathematical modeling in fields of interest to them. Fundamentals of modeling system change will be discussed in the Calculus sequence. Working with data will be addressed in the Statistics sequence. By taking a mathematics-intensive course in their field of interest, students will learn how mathematical models apply to the world around them.

MA 2003 Applications in Mathematics: Theme
MA 2243 Elementary Statistics
MA 2333 Calculus I
MA 3263 Biometry **or** MA 3253 Applied Statistics
MA 3443 Calculus II

Two of the following:

BI 3423 Evolution	GL 4003 Global Change
BI 4423 Ecosystem Ecology	PS 2004 Physics: Mechanics and Energy
EC 3003 Ecological Economics	PS 3003 Sustainable Energy
ES 3213 Applied Geographic Information Systems	WF 3013 Population Assessment and Management

Botany

Plants are the basis of an ecosystem. A solid understanding of plants serves biologists and naturalists of all types, especially as plants provide food and habitat for wildlife. The Botany minor has a core of four courses that comprise structure, function, identification, and environmental context of plants. The additional courses are a choice, allowing students to cast their minor in a more applied or basic mode according to individual goals.

BI 2004 Population and Community Ecology
BI 3153 Systematic Botany
BI 2214 Biology of Plants
FY 2043 Dendrology

Two of the following:

BI 3053 Marine Botany	BI 4243 Genetics and Molecular Biology
BI 3063 Agroecology	BI 4423 Ecosystem Ecology
BI 3323 Conservation Biology	FY 4213 Silviculture
BI 3423 Evolution	SA 3363 Soil Fertility

Ecology

The Ecology minor is intended to complement other environmental majors and help students develop the skills to use ecological science to address a wide range of environmental issues.

BI 2004 Population and Community Ecology
BI 3423 Evolution
BI 4423 Ecosystem Ecology

Three of the following:

BI 2033 Marine Biology	BI 3273 Mammalogy
BI 3153 Systematic Botany	BI 3283 Ornithology
BI 3053 Marine Botany	BI 3293 Entomology
BI 3063 Agroecology	BI 3323 Conservation Biology
BI 3173 Animal Behavior	BI 3654 Microbiology
BI 2214 Biology of Plants	ES 3183 Limnology
BI 3233 Ichthyology	GL 3433 Soil Science
BI 3253 Invertebrate Zoology	MA 3263 Biometry
BI 3263 Special Topics in Biology	WF 3013 Population Assessment and Mgmt.

Environmental Interpretation and Education

The Environmental Interpretation and Education minor offers students the opportunity to explore the fields of formal and non-formal learning environments, how people learn, the needs of diverse audiences and the best practices in instructional as well as heritage and resources interpretive settings. This minor will support the students who plan on working with educational/interpretive programs in a variety of settings including zoos, wildlife parks, aquariums, parks, environmental learning centers, and other educational settings.

CM 2123 Environmental Communication
ED 1013 Foundations of Education
ED 2113 Instruction and Assessment Design
PF 1023 Interpretation of Natural and Cultural Heritage
PF 4123 Interpretative Methods

Eight credits from the following:

CM 2233 Digital Media Production	ED 3443 Teaching Science in the Secondary Schools
CM 3113 Documentary Film	EH 3213 Professional and Technical Writing
CM 3123 New Media	EH 4213 Writing for Publication
ED 2102 Educational Field Practicum I	PF 2213 Sustainable Ecotourism
ED 2212 Teaching with Technology	PY 2013 Human Development
ED 3333 Education for Exceptional Children and Youth	PY 3123 Educational Psychology

Geoscience

At its core, the Geoscience minor includes field and lab inquiry rooted in the geosciences, especially soils and hydrology. Other thematic elements include landform evolution, erosion and sedimentation, water quality, Geographic Information Systems (GIS), environmental change, land use change, and wetland delineation. Students will learn important field and lab skills and demonstrate their comprehension of the theoretical and applied nature of the geosciences through a variety of real world settings, environmental problem-solving scenarios, and research projects.

GL 1003 Physical Geology
GL 2003 Environmental Geology
GL 3044 Surface and Groundwater Hydrology
GL 3223 Geomorphology
GL 3433 Soil Science
GL 3524 Lake Sedimentation

Psychology

The Unity College minor in Psychology is designed to provide interested students with a broad overview of topics and domains within the field of psychology. The science of psychology is a rich compliment to a variety of liberal arts and professional degree programs. The psychology minor will introduce students to theoretical concepts, research methodologies, and practical applications within the diverse field of psychology. The program will allow students to support their major field of study by increasing their understanding of human behavior and by enriching their credentials for prospective employers in the human service field or for pursuing graduate studies.

PY 1013 Introduction to Psychology
PY 2013 Human Development
PY 2113 Group Process and Management
PY 3013 Human Sexuality **or** PY 4223 Counseling Theories for Wilderness Programming
PY 3123 Educational Psychology
PY 3133 Abnormal Psychology

Sustainable Forest Management

The Sustainable Forest Management minor offers students the opportunity to acquire the knowledge and skills to measure and assess forest and other natural resources in order to understand the ecology of forest systems; manage for environmental services; manage forest fuels; understand sustainable harvest methods and processes; comprehend the production and marketing of sustainable forest products; and understand how social, economic, and ecological forces impact the management of forests and their resources.

FY 2013 Forest Measurements
FY 2043 Dendrology
FY 2163 Fire Ecology and Management
FY 3223 Forest Ecology
FY 4003 Forests and Society
FY 4213 Silviculture

Zoology

In the Zoology minor students investigate the behavior, ecology, and physiology of animals. Students then focus on an aspect of animal biology that fascinates them ranging from particular types of animals, such as in ornithology, to how animals work, such as through cell biology or genetics.

BI 2004 Population and Community Ecology
BI 3173 Animal Behavior
BI 3204 Comparative Animal Physiology

One of the Following:

BI 2304 Cell Biology
BI 3423 Evolution
BI 4243 Genetics and Molecular Biology

Two of the following:

BI 2033 Marine Biology
BI 3233 Ichthyology
BI 3253 Invertebrate Zoology
BI 3273 Mammalogy
BI 3283 Ornithology
BI 3293 Entomology
WF 4034 Animal Health

Unity College Honors Program

The Unity College Honors program offers an engaging challenge for academically-talented and motivated students from all academic disciplines. Through the Honors Program, students participate in intellectual pursuits that both broaden and deepen their knowledge. Honors students will be encouraged to reach their potential as independent thinkers and creative problem solvers.

Students with a cumulative GPA of at least 3.50 are able to apply for the Honors Program after their second semester at Unity College. Students who have transferred into Unity College 30 or more credits and maintained a cumulative GPA of at least a 3.50 at their previous institution may apply to the Honors Program after completing one semester at Unity College with a GPA of at least a 3.50.

To fulfill the Honors Program requirements, students must complete:

- Two Honors Seminars (UC 3001) with an A or B
- A six credit thesis (UC 4013 for two semesters OR UC 4003 and UC 4013 OR UC 4023 for two semesters OR UC 4033 for two semesters) with a transdisciplinary component with an A or B
- Designated components of Unity College Co-curricular Leadership Program

Graduate School Preparation Core for Biological Sciences

The Graduate School Core for Biological Sciences is a set of courses that supplement programs in Wildlife Biology, Marine Biology, Biology, or Captive Wildlife Care and Education, and provide students with the foundations in physical sciences and math that are needed for entry and success into graduate school programs. Students should declare the core in the second semester of their sophomore year, or later, after demonstrating an ability to maintain a high enough cumulative grade point average (3.00) to make them competitive for graduate school. Once declared, students will now be given some priority for these courses that are not necessarily required for graduation with their major.

The Graduate School Preparation Core for Biological Sciences

CH 2324 Organic Chemistry

CH 4034 Biochemistry

MA 2333 Calculus I

MA 3263 Biometry

PS 2004 Physics: Mechanics and Energy

At least one of the following:

BI 3654 Microbiology

BI 4243 Genetics and Molecular Biology

CH 4044 Environmental Chemistry

ES 3213 Applied Geographic Information Systems (GIS)

GL 2033 Environmental Geology

GL 3044 Surface and Groundwater Hydrology

GL 4003 Global Change

MA 3443 Calculus II

PS 2014 Physics: Heat, Electricity and Magnetism

Requirements for declaring the Graduate School Preparation Core:

- Student must have and maintain a cumulative grade point average of 3.00
- Student must have earned a minimum of 45 credits
- Student must submit written confirmation of completion of the GRE Practice Test in the Career Services.

Course Descriptions

Adventure Education

AE 1002 Food, Fitness, and Outdoor Cooking

Students will be exposed to a variety of outdoor cooking methods, which may include reflector oven, Dutch oven, and double boiler. They will learn to plan nutritious and sustaining meals that appeal to diverse audiences. The fitness component will include basic information such as heart rate calculation, strength, and flexibility training specific to backcountry pursuits. This course is offered the second 7 weeks of the semester, but the first session meets in week 1 during add/drop. *4 class hours*

Credits: 2

Offered: Semester II

Prerequisites: None

AE 1003 Experiential Learning Initiatives

This course acts as an introduction to the current programs, methods, and practices that employ Experiential Education. Students will develop an understanding of the history, fundamentals of, and engage with the spectrum of Experiential Learning programs. During the field portion of this course students will be exposed to and participate in programs that represent the spectrum of adventure-based environmental and therapeutic education. Students will develop a professional portfolio to include an educational philosophy and professional plan. This course is a part of the *Experiential Educators Block*.

Credits: 3

Offered: Semester II

Prerequisites: None

AE 1012 Rock Climbing

This 7-week course covers fundamentals of rock climbing. Students will work on the indoor climbing wall and outdoor cliffs learning belaying techniques, construction of anchor and safety systems, and movement skills. Students will participate in a weekend climbing trip, either two separate days or as an overnight trip, depending on conditions and site location. This course assumes no prior knowledge or experience with this topic and is taught to American Mountain Guide Standards. *Hours depend on semester taken*

Credits: 2

Offered: Semester I

Prerequisites: None

Semester II *Experiential Educators Block*

AE 1013 Physical Fitness and Wellness

This course is designed to introduce students to various components of lifetime fitness and wellness. Fitness components include assessment in the following areas: cardiovascular endurance, muscular strength and endurance, flexibility, and body composition. Individual testing will be performed in each area. Introduction to various types of exercise including sessions in yoga, Pilates, martial arts, and aerobics may be included. Wellness components will include nutrition, cardiovascular disease and cancer prevention, stress management, and substance abuse. The components of the course will be taught through a combination of lecture, self-assessment, and lab exercises. Students will be expected to partake in all exercise labs. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: None

AE 1032 Introduction to Backpacking

This 7-week course is an introduction to backpacking and travel techniques. The course includes: choosing clothing and equipment, *Leave No Trace* principles, reading and understanding guidebooks and maps, compass use, trail selection, stove use, time management, emergency response plans, and basic cooking. This course assumes no prior knowledge or experience with this topic. One weekend trip is required. *5 class hours*

Credits: 2

Offered: Semester I

Prerequisites: None

AE 1061 Map and Compass

This 7-week course is designed to provide students the opportunity to learn and develop map and compass skills. Specific skills and knowledge include reading and understanding maps, and land navigation techniques. This course may include an off-campus field trip. *3 class hours*

Credits: 1

Offered: Semester I

Prerequisites: None

Semester II: *Experiential Educators Block*

AE 1062 Introduction to Canoeing

This 7-week course will serve as an introduction to the knowledge and skills associated with flat, moving and white water canoeing. Topics will include dynamics of canoe equipment, clothing selection, short trip planning and safety considerations, strokes, basic self and equipment rescues as well as the effects of weather on enjoyment of the sport. This course assumes no prior knowledge or experience with this topic and is taught to the American Canoe Association standards. Students should be comfortable in the water and able to swim for 25 yards and get out of water, both unassisted. This course includes a weekend trip for a whitewater canoeing trip. *5 class hours*

Credits: 2

Offered: Semester I

Prerequisites: None

AE 1072 Winter Pursuits Level 1

This 7-week course is designed to introduce winter skills to students of all majors. It includes snowshoeing, cross-country skiing and winter camping. Topics include: clothing and equipment selection, travel techniques, self-care in a cold environment, group management and food selection. One weekend trip is required. *5 class hours*

Credits: 2

Offered: Semester II

Prerequisites: None

AE 2002 Adventure Facilitation

This 7-week active focused course develops an understanding of and experience base with the tools and activities that comprise adventure-challenge and experiential learning. Students will develop programs to include aspects of group membership, diversity and dynamics. Planning, sequencing, facilitating and evaluating adventure-challenge programs will occur with off-campus groups. Adventure-challenge core concepts are designed to help develop self-esteem, trust, cooperation and independent thinking. Many of the activities can be adapted to help teach other academic subject areas such as math, science, geography, and health. This course may involve some use of the physical elements of a challenge course but learning will primarily have a low and no prop focus. This course is part of the *Experiential Educators Block* for the spring.

Credits: 2

Offered: Semester II

Prerequisites: None

AE 2012 Challenge Course Programming

This course will further a student's ability in the use of Adventure-challenge concepts and skills – facilitation, group dynamics and diversity; program planning and risk assessment, implementation, debriefing and evaluation. Content will regularly expose students to initiatives; low and high challenge elements in order to learn about current construction, set-up and safety techniques of the challenge course industry. Students will also provide and receive professional level feedback and assessment (self, peer and instructor) of facilitation skills and program effectiveness. Course work may involve off-campus groups and require pre-arranged class trips. This course is a part of the *Experiential Educators Block* and is taught to the Association of Challenge Course Technology standards.

Credits: 2

Offered: Semester II

Prerequisites: None

AE 2022 Introduction to Expedition Kayaking

This 7-week course is designed to immerse students in core kayaking concepts and equipment with progressive development towards novice kayak skill sets and decision making. Students will learn fundamentals of kayak and equipment design, a variety of strokes and rescues, and be introduced to bracing and rolling. Secondary core content will include group expeditionary planning and travel, chart and compass, effects of weather and water for inland and/or coastal environments. This course assumes no prior knowledge or experience with this content. However, students will be required to perform a variety of maneuvers and rescue techniques in open-water. *5 class hours*

Credits: 2

Offered: Semester I

Prerequisites: None

AE 2024 Expeditionary Skills

This 21 day expedition-based course provides the student with an adventure-education immersion experience. Students will learn travel skills, expedition behavior, protocols, practice leadership in a wilderness setting, and engage in group process and decision making. Though the course will primarily focus on extended wilderness travel and logistics, students will have the opportunity to advance in one or more skill-specific content areas pre-determined by the Instructor (i.e. Sea-Kayaking, Backcountry Navigation, Canoeing, Backpacking). This course assumes little or no previous outdoor travel experience. Minimum impact ethics and other adventure industry standards will be applied and taught.

Credits: 4

Prerequisites: None Fee: \$700.00

Offered: May Semester
Alternate Years Even

AE 2032 Technical Winter Mountaineering

Technical Winter Mountaineering is designed to teach basic technical climbing skills in a winter environment. Skills covered may include ice climbing, snow and ice travel, winter anchor and belaying systems, avalanche awareness, introduction to the alpine environment and glacier travel. A 5-day trip is required. This course is taught to American Mountain Guide Standards. *5 class hours*

Credits: 2

Prerequisites: AE 1012, AE 2042, and instructor consent

Offered: Semester II
Alternate Years Odd

AE 2042 Winter Pursuits Level 2

This 5-week course is designed for students who want to take their winter pursuits to a more challenging level. Topics may include: a review of basic clothing and equipment needs, equipment repair, weather, nutrition, traveling safely and recognizing avalanche terrain. Students will learn advanced travel techniques and build a pull sled for carrying gear. Students will travel by snowshoe and cross-country skis to reach pre-determined terrain. The course will include one weekend day-trip and will culminate with a 5 day trip over spring break. *3 class hours*

Credits: 2

Prerequisites: AE 1072 and instructor consent

Offered: Semester II
Alternate Years Even

AE 2122 Intermediate Rock Climbing

This 7-week course assumes prior knowledge of top-rope anchor construction as well as the basics of knot tying and belaying. The course will focus on top-rope climbing systems and site management, learning to place rock protection, support lead climbers as a second, and cover beginning leading skills. Students will gain experience in face and crack climbing, placing protection, anchoring, moving efficiently as a team member on multi-pitch climbs, and rappelling. One weekend trip will be scheduled. This course is taught to Single Pitch Instructor content standards. *5 class hours*

Credits: 2

Prerequisites: AE 1012 and instructor consent

Offered: Semester I
Alternate Years Odd

AE 3013 Experiential Education, Ethics and Moral Development

This course will delve into the efficacy and applied scope of adventure and experiential practices, focusing in-depth on the history, influential theorists and current practices of various types of experiential education programs. Students will analyze the current state of the field and its influence on issues of persona; cognitive and character development, inclusion, social development and responsibility, and the importance of diverse populations. Through research and presentation, students will critically assess how to maximize learner development. Students will also analyze the distinction between their ethical responsibilities in field and how that role compliments aspects of moral development for learners. *3 class hours*

Credits: 3

Prerequisites: ED 2003

Offered: Semester II

AE 308X Expeditionary Assistant

In this course, students with appropriate qualifications will arrange and assist in leading experiences in basic adventure, travel, programming, or theory courses. They will design their participation and class hours and complete a learning contract with their course instructor prior to preregistration for that term. Students will expand their knowledge and skills with logistics, technical instruction, and hands-on lab sessions. This course is repeatable with a different topic.

Hours dependent on individual

Credits: 1-2

Prerequisites: Consent of instructor

Offered: Semesters I and II

AE 3233 Adventure Therapy Programs

This course is designed to introduce students to outdoor programs that deal with people with psychological disabilities. Students will learn the characteristics of certain disabilities and will examine various therapeutic wilderness programs developed to work with specific groups, such as people who have been abused, who have post-traumatic stress disorder, or who are patients in psychiatric hospitals. *3 class hours*

Credits: 3

Prerequisites: AE 2002, AE 2012

Offered: Semester I
Alternate Years Even

AE 4003 Adventure Leadership and Programming

This course is the capstone for the Adventure programs. Students enrolled in this course will be expected to apply and integrate previous course work related to informal learning practices, practice effective group management, enhance learner relationships, and implement safe field work practices while delivering innovative and effective experiential curriculum. Students will support programming by engaging with off campus partners or agencies. Students will complete and present a professional portfolio to a unique advisory group. A three day trip is required.

3 class hours

Credits: 3

Prerequisites: AE 1003, ED 2003

Offered: Semester I

Aquaculture and Fisheries

AF 3324 Fisheries Science and Techniques

Fisheries Science and Techniques will offer experiences in fisheries stock management based on the assessment of individual organisms and populations. Sampling techniques and gear employed in a variety of habitats will offer collecting and processing opportunities for several species of freshwater fish. These samplings of local fish stocks and other exemplary data sets will then be analyzed as appropriate for sex ratios, age and growth, population age structure, reproductive capacity and success, recruitment, food habits, migrations, population estimates, and other aspects of fishery science and management. Limited experiences with marine fish and invertebrates may be possible; weekend day trips may be scheduled to Portland fish docks and markets or to Long Cove in Searsport to examine aspects of marine fisheries. Numerous activities will supplement class assignments. Service-learning will be formalized during classroom discussion, through experiential activities in the community, and by contribution of data to fisheries management agencies. *3 class hours; 2 laboratory hours*

Credits: 4

Prerequisites: BI 1114, MA 2243, and Junior Status

Offered: Semester I

Anthropology

AN 1123 Cultural Anthropology

Anthropology is the study of culture as a human creation: its origins, development or evolution, and possible future. The course covers the range of variation in human life-styles and basic cultural similarities. There will be an examination of selected tribal, peasant, and industrial cultures, with an emphasis on how biological, cultural, and ecological factors shape them. Comparative technology, kinship, social structure, religion, magic, art, economics, cultural change, and applied anthropology will be discussed. *3 class hours*

Credits: 3

Prerequisites: CM 1003

Offered: Semester I

AN 2113 Society and Sustainability

The world's high energy consumption patterns in recent years are unique in human history and are unsustainable. We must develop new forms of energy use, but also new or rediscovered social practices: alternative ways of living with each other in a world after peak oil. This course studies alternative and emerging social systems such as cooperatives, micro-banks and local currencies, land trusts, Transition Towns, new electoral systems, worker-owned companies, systems of restorative justice, regional community planning, and consumer movements. We will draw on examples from communities and nations worldwide, compare their effectiveness, and image ways to implement social change for sustainability. *3 class hours*

Credits: 3

Prerequisites: Sophomore Status

Offered: Semester I
Alternate Years Odd

Art

AR 1013 Drawing

The course develops the process of drawing from reality, stressing both skill and individual expression by exploring volume, space, form, value, and materials. *4 studio hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: None

AR 1023 Ceramics

Ceramics is a hands-on studio class using clay as a means of expressing the self in the environment. A variety of hand building, wheel forming, surface finishing, glazing, and firing techniques will be explored. At the same time, how artisans in other times and other cultures used clay and how the objects they made function in their respective societies will be considered. *4 studio hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: None

AR 2003 Introduction to Drama

This course will investigate the drama as literature and as theatrical production, with special emphasis on the great periods of theatre around the world. Representative plays will be read and discussed in terms of production characteristics. Various methods of play production, stagecraft, costuming, lighting, etc. will be studied and utilized developing and presenting productions for local elementary schools. Trips to theatre productions will be a required part of the course. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: None

AR 2013 Painting

This is an introductory course designed to establish a working familiarity with traditional techniques of painting. The semester will be based on painting from actual conditions. There will be an emphasis on how to see and interpret color and form in two dimensions. *4 studio hours*

Credits: 3

Offered: Semester II

Prerequisites: AR 1013

Alternate Years Even

AR 2023 Photography

This introductory course focuses on teaching basic camera use and image production. Special attention will be devoted to learning to “see” photographically: to discern qualities of light and composition. *4 studio hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: None

AR 2033 Sculpture

This course explores the texture, forms, and substance of a variety of traditional and nontraditional materials. Strong emphasis is placed on concepts of three-dimensional design and how sculpture relates to the history of ideas. *4 studio hours*

Credits: 3

Offered: Semester II

Prerequisites: None

Alternate Years Odd

AR 2103 Art Explorations: Theme-Based

There are many modes of making and understanding art in contemporary society. This course offers students the opportunity to engage a specific set of skills and subjects within the broad conversation of studio art. The course subject will change from year to year in response to student and instructor interest. The subjects to be addressed may be: Public Art, Art and Science, Art and the Environment, Scientific Illustration, Printmaking, and others that may occur. This course may be retaken for credit under a different subject. *4 studio hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: As dictated by subject

AR 2113 Creative Writing: Theme-Based

In this experiential course, students improve their use of creative writing techniques including: metaphor, characterization, and voice, while exploring innovations in form and the writing process. Emphasis will be placed on revision and fostering a productive workshop environment. Topics in this course might include: sense of place, songwriting, or specific genres such as poetry, drama, and the short story. This course may be repeated for credit if a student chooses a different topic. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: CM 1003

AR 3013 Advanced Painting

This course expands upon the skills and concepts introduced in Painting. There will be an emphasis on developing technical and conceptual proficiency. *4 studio hours*

Credits: 3

Offered: Semester II

Prerequisites: AR 2013

Alternate Years Even

AR 3023 Advanced Ceramics

This course expands upon the skills and concepts introduced in Ceramics. There will be emphasis on developing a high level of proficiency in a variety of wheel forming and hand building techniques as it relates to clay.

This course brings art and science together to explore the chemical structure of clay and glazes and how it connects to human expression in the ceramic arts. Sustainable living with well-crafted handmade ceramic objects will be emphasized. *4 studio hours*

Credits: 3

Offered: Semester I

Prerequisites: AR 1023

Alternate Years Even

AR 3033 Environmental Photography

This course is a continuation in the refinement of skills and exploration of the art and craft of photography and visual storytelling. Over the span of the semester, students will continue to gain mastery over the tools in digital photography for personal and creative expression, in addition to building a vocabulary in regards to contemporary photographic practices. Students will identify and work with a community organization for the duration of the semester. This work will entail becoming familiar with the organization, making contact with a representative of the organization, and spending a significant amount of time with the people and/or place and making photographs which build into a story of your authorship. Each completed project will be shared with the organization with which the student worked. *4 studio hours*

Credits: 3

Offered: Semester I

Prerequisites: AR 2023

AR 3043 Designing with Nature

Can human society live in harmony with the rest of nature? Can we imagine what a sustainable human landscape/ecosystem would look like and how it would function? Can we imagine a place where both humans and nature can thrive? This course brings art and science together to explore questions of the structure and function of healthy human habitation in nature. This course's goal is to create a holistic vision for sustainable living via interdisciplinary inquiry. The course will rely heavily on the work of others thriving to realize this vision such as Christopher Alexander and leaders in permaculture and community design. Field work will include studying and drawing existing landscapes, and the course will be writing intensive. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: Sophomore Status

Alternate Years Even

AR 3213 Advanced Drawing

This course builds on the skills developed in Fundamental Drawing continuing to stress both technical skill and individual expression. The emphasis will be on the figure, perspective, and developing a sustained drawing. *4 studio hours*

Credits: 3

Offered: Semester I

Prerequisites: AR 1013

Alternate Years Odd

AR 3223 Advanced Sculpture

This course builds on the skills developed in Sculpture. There will be an emphasis on technical skills and conceptual development. *4 studio hours*

Credits: 3

Prerequisites: AR 2033

Offered: Semester II
Alternate Years Odd

AR 4013 Senior Exhibition

This course is intended to be the capstone achievement for Art and Environments majors. Senior majors will produce a cohesive body of artwork to be exhibited in a senior show. *Hours dependent on individual*

Credits: 3

Prerequisites: Consent; Successful Portfolio Defense

Offered: by Arrangement

Administrative Science

AS 2111 Professional Development

This course will help to better prepare students for entering a professional work environment. Students will learn foundational professional development skills such as resume and cover letter writing, interviewing techniques and business etiquette. Students will also learn the process of arranging an internship for credit, *Lewin/Kohl's Experiential Learning* model, writing effective learning objectives, the stages of an internship, selecting a meaningful internship experience, understanding organizational culture and risk awareness/management. Students planning to complete an internship are strongly encouraged to enroll in this class. *2 class hours for seven weeks*

Credits: 1

Prerequisites: None

Offered: Semesters I and II

AS 4333 Administration and Organization

This course is designed to give students of public administrative and non-governmental operations an opportunity to evaluate management systems, strategies, and policies. Students will conduct administrative operations (planning, human resources, financial management, supervisory and employee ethics, risk and liability assessment), prepare reports, and respond to situations that might occur in those preparing to enter careers in outdoor studies. *3 class hours*

Credits: 3

Prerequisites: Junior Status

Offered: Semester II

Biology

BI 1114 Biology: Diversity of Life

Skills and foundational knowledge in this course prepare students to be knowledgeable citizens of a planet with numerous environmental challenges, most of which are based in biology. Students will engage in scientific inquiry, gain a clear sense of the nature and process of science, use quantitative information, develop professional communication skills, and appreciate the role of natural history in science. Topics will include the study of DNA and inheritance, the evolution of life, systematics and classification, matter and energy transfer through ecosystems, and ecological connections made relevant through the study of current environmental issues. *3 class hours; 2 laboratory hours*

Credits: 4

Prerequisites: MA 1013

Offered: Semesters I and II

BI 1213 Biology in Practice: Biology Theme-Based / Marine Biology Theme-Based

Through in-depth study of an engaging biology topic, students will develop information literacy skills: finding, reading, and evaluating scientific literature. This writing-intensive course gives students practice with scientific writing and other forms of professional communication such as oral presentations, posters, or illustration. The course also provides an important forum to discuss professionalism, ethics, current trends, and career directions in science. Researching job opportunities will help make students aware of the knowledge, skills, and dispositions needed for their desired careers. Students will start their professional portfolio and make a plan through curricular and co-curricular means, to gain necessary knowledge, skills, and dispositions. This course may be repeated for credit if taken with a different theme. *Hours dependent on theme*

Credits: 3

Prerequisites: BI 1114

Offered: Semester II

BI 2004 Population and Community Ecology

This course will provide an overview of modern ecology: the patterns and processes operating in populations and communities. The first part of the course will focus on demographic characteristics of populations and simple models of population growth and natural regulation. The second part of the course will concentrate on discussions of community structure. Topics include competition, predation, species diversity, niches, and succession. In the lab, students will practice quantitative methods, field techniques, and conduct independent research projects *3 class hours; 2 laboratory hours*

Credits: 4

Offered: Semester I

Prerequisites: BI 1114, MA 2243

BI 2013 Marine Fisheries

This course will examine the major themes in marine fisheries today, on both a local and global scale. The major topics that will be covered include: marine fishing gears, bycatch, overharvesting, the impact of climate change on marine fisheries, marine fisheries management, marine fisheries research and the role of aquaculture in the future sustainability of marine fisheries. This is a project based class that will provide students with the knowledge, skills and abilities required for marine fisheries careers and/or graduate opportunities. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 1114

BI 2033 Marine Biology

Marine Biology is the study of life in the sea. This course emphasizes the nature of the ocean environment, the origin and development of life in the sea, principles of productivity, benthic and pelagic life forms, and food from the sea. Laboratories offer a comprehensive introduction to marine ecosystems and ecological relationships and include both field and lab work. Groups covered include plankton, algae and seaweeds, invertebrates, fishes, seabirds, and marine mammals. Field trips to rock shores, salt marshes, and other coastal sites are included. One weekend field trip is required. *2 class hours; 3 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114

BI 2111 Themes in Fisheries and Aquaculture

This course will examine themes in fisheries and aquaculture. Students may study identification, distribution, ecology, and behavior about aquatic organisms. Individual options will be offered periodically or at student request and faculty incentive. Examples of themes may include; fisheries identification, marine algae, zooplankton, etc. This course may be repeated for credit with a different topic. *1 class hours*

Credits: 1

Offered: Semesters I and II

Prerequisites: BI 1114

BI 2214 Biology of Plants

This course is an introductory survey of the structure and function of plants. The primary goal of this course is to present fundamental principles, current topics, and methodology of the plant biological sciences. Students will gain an introductory to intermediate level of knowledge of plant morphology, anatomy, physiological processes, evolution and ecology. The secondary goal is for students to develop skills to question, hypothesize, test and evaluate the living world. This course will combine lectures, guided laboratories, student developed research projects, class discussions, and data collection. Topics will include carbon balance (photosynthesis and respiration), water relations, mineral nutrition, growth and reproductive processes, as well as responses to environmental stress or population. The labs will include experiments on photosynthesis, respiration, germination, hormonal responses, and observations of plant growth under different environmental conditions. Upon completion of this course students will have a broader understanding of the relevance of plants to issues such as global climate change, habitat degradation, impacts of invasive species, and maintenance of ecosystem services. *3 class hours; 2 laboratory hours*

Credits: 4

Offered: Semester II

Prerequisites: BI 1114

BI 2304 Cell Biology

Cells are the fundamental unit of life. Understanding how an organism functions begins with understanding how a cell functions. In Cell Biology we emphasize the structure and function of eukaryotic cells including their membranes, organelles, and cytoskeleton. We also investigate the cellular processes necessary for life, including metabolism, inter- and intra-cellular communication, protein synthesis, cellular reproduction, and what happens to cells and organisms when these processes are interrupted. The lab component of the course will involve both observational and experimental labs, including microscopy, molecular biology, spectrophotometry, and other methods needed for exploring cell structure and function. *3 class hours; 2.5 laboratory hours*

Credits: 4

Offered: Semesters I and II

Prerequisites: BI 1114, CH 1104

BI 3053 Marine Botany

This course provides an overview of marine photosynthesizers, including their taxonomy and ecology. Emphases will be placed on ecologically and commercially important species of microalgae, seaweeds, salt marsh plants, and sea grass with special attention to their roles in the marine ecosystem. Laboratory activities will include local surveys of marine flora and culturing of microalgae. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114

Alternate Years Odd

BI 3063 Agroecology

All agricultural systems are ecosystems, and their management is fundamentally an ecological activity. This course will introduce students to the science of ecology as applied to agricultural systems, and train students to use ecological concepts as guiding principles in designing and managing agricultural systems. The course will have both lecture and laboratory components. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114

Alternate Years Odd

BI 3111 Themes in Marine Science

In this themed course the biology of sea turtles, dolphins, sharks, and other marine organisms may be covered. Topics will include their physiological adaptations to marine life and their ecological role(s) within their ecosystems. This course may be repeated for credit with a different theme. *1 class hour.*

Credits: 1

Offered: Semesters I and II

Prerequisites: BI 2033 or junior status

BI 3153 Systematic Botany

This course explores the principles of identification and nomenclature of nonvascular and vascular plants. We will survey the plant families including their geographical distribution and evolutionary history. Laboratory sessions will emphasize the identification of flowering plants of the northeastern United States. A herbarium specimen collection will be required of each student. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114

Alternate Years Even

BI 3173 Animal Behavior

This course deals with the study of genetics, physiology, and ecology of animal behavior in an evolutionary context. Behavioral adaptations are discussed with particular reference to their ecological significance. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 1114 and sophomore status

BI 3204 Comparative Animal Physiology

By comparing different animals and how they function in different environments you will develop an understanding of the underlying principles of physiology. You will investigate such physiological processes as digestion, respiration, circulation, muscle and nerve function, ion regulation, and energetics. You will also determine how these processes are specialized in different animals. The lab component of the course gives students the opportunity to observe and collect data on a variety of organisms by conducting experiments that illustrate how physiology can

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be influenced by stimuli in the environment. Dissections and the use of living animals are required. *3 class hours; 2.5 laboratory hours*

Credits: 4

Offered: Semester II

Prerequisites: BI 2304

BI 3233 Ichthyology

Ichthyology deals with identification, histology, meristics and morphology, physiology, and ecology of freshwater and marine fish. Structure, function, evolution, and behavior of fish are all discussed in the framework of adaptation to the environment. Laboratories offer the opportunity to examine fish morphology and behavior in a haptic learning environment. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 2304 or Junior Status

BI 3243 Herpetology

This course is an introduction to the exciting field of herpetology, the study of amphibians and reptiles. Students will gain an appreciation for and an understanding of these often elusive and reclusive animals through lectures, readings, field trips, presentations, and discussions of the primary literature. Topics covered in the lecture portion of the course include evolution, ecology, anatomy, physiology, life history, and conservation. The lab will consist of a week-long field trip to the herpetologically-rich southeastern United States. Topics covered include many aspects of field methodology, such as identification and the safe capture and handling of amphibians and reptiles. *2 class hours; lab will occur during week-long field trip over spring break*

Credits: 3

Offered: Semester II

Prerequisites: BI 1114

Alternate Years Even

Fee: \$960.00

BI 3253 Invertebrate Zoology

In this course, the diversity of invertebrate groups will be examined and the evolutionary trends, which they illustrate, investigated. Highlighted groups will include sponges, annelids, mollusks, arthropods, and echinoderms. Patterns in the development, ecology and evolution of these organisms will be investigated. Labs will focus on understanding structure, function, taxonomy, and evolutionary relationships among the groups using both live and preserved specimens. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 1114 and Sophomore Status

BI 3263 Special Topics in Biology: Theme-Based

This course will examine themes in biology. Students may study natural history, ecology, geology, or plant and animal adaptations of different habitats, or focus on the biology of a specific taxonomic group. Examples include courses in Desert Ecology, Herpetology, Winter Ecology, Entomology, Alpine Ecology, Tropical Biology, Advanced Cellular Techniques, Molecular Techniques, or Biodiversity. This course will involve extensive reading and writing activities, and may involve mandatory field trips to the habitat under study. This course may be repeated for credit provided the topic is not repeated. For each offering, supplementary course descriptions detailing the topic offered by individual instructors will be published in the course schedule. *Hours dependent on theme*

Credits: 3

Offered: Semester I or II

Prerequisites: BI 1114 and others as dictated by theme

BI 3273 Mammalogy

This course examines the anatomy, physiology, behavior, and ecology of mammals with emphasis on the adaptability of each feature. Classification and field/laboratory experimentation are stressed in laboratory. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114 and Junior Status

BI 3283 Ornithology

Birds and their adaptations have intrigued humans throughout history. This course focuses on the physiological, structural, and ecological adaptations that have allowed birds to be successful in their various

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environments. Time is devoted to avian evolution, reproduction, physiology, migration, and ecology. Students are exposed to scientific studies of birds through professional journals. The laboratory covers visual identification of regional species, anatomy, and trapping and banding methods. Dissections are a required lab activity. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 1114 and Junior Status

BI 3293 Entomology

This course is an introduction to the study of insects. Topics may include diversity of form, function, ecology, and behavior; the basics of systematic entomology, especially phylogeny, classification, evolution, and biogeography; the role of insects in natural systems; their effects on human welfare; and the methods by which humans attempt to manage insect populations. Laboratory will include field collecting techniques, preservation, and identification. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114

Alternate Years Even

BI 3323 Conservation Biology

Conservation Biology focuses on the biological and human dimensions of protecting biodiversity globally. This course investigates the value of biodiversity, threats to biodiversity, and practical approaches for conservation of ecosystem diversity, species diversity, and genetic diversity within species. This course will use a solution-based framework when addressing complex, multifaceted problems as are often faced by conservation biologists. Specific concepts include minimum viable populations, extinction patterns, habitat fragmentation, habitat restoration, and prioritizing conservation areas. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 2004

BI 3423 Evolution

This course is designed to provide upper-level students with a broad understanding of the science of evolutionary biology. Topics include the study of evolutionary theory, mechanisms of evolution, basic models of population genetics, and the study of how selection and other processes operate on phenotypic variation to produce adaptations. We will also discuss approaches used to study the evolution of behavior, including foraging, patch selection, mating systems, sexual selection, cooperation, and sociality. Throughout the semester emphasis is placed on the importance of evolution and genetics in conservation and culture. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 2004 and Junior Status

BI 3654 Microbiology

Microorganisms are a vital, but mostly unseen, component of the environment in which we live. They cause most of the serious diseases of higher organisms and are primarily responsible for the recycling of dead organic material into basic components that can be reused by subsequent generations. Since microorganisms can only be seen and handled in special ways, emphasis is placed not only on their life histories and peculiarities, but also upon methods of observing and handling them. The roles of microorganisms in disease, nutrient cycling, food products, and environmental testing and industry will be explored. Students will practice techniques related to microscopy, cell staining and cell culturing in the lab, as well as experiment with the ecological role of microorganisms. *3 class hours; 2 laboratory hours*

Credits: 4

Offered: Semester I

Prerequisites: BI 2304, CH 1104

Alternate Years Even

BI 4023 Coral Ecology and Management

This course will explore the biology of corals including the parameters necessary for healthy growth, reproduction and reef formation. Modern threats to coral and reef health such as coral bleaching, black band disease and ocean acidification are examined along with emerging management and remediation strategies. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 2033

Alternate Years Even

BI 4033 Marine Mammalogy

This course will provide students with a base understanding on the biology of marine mammals by exploring the diversity and zoogeography, evolution, anatomy and physiology, neural morphology, sensory systems, vocal anatomy and acoustic communication, movement, feeding ecology, energetics, life history strategies, population genetic structure, social behavior, and conservation of marine mammals. Students will gain experience in reviewing scientific literature, be immersed in the methods used to study difficult marine organisms, will participate in the group discussion of current issues, and become familiar with the common species of marine mammals found within the Gulf of Maine. *3 class hours*

Credits: 3

Prerequisites: BI 2033

Offered: Semester II
Alternate Years Even

BI 4243 Genetics and Molecular Biology

Genetics is the science that examines how genes are transmitted, expressed, and studied. Emphasis in this course is placed upon higher organisms. Mendelian genetics is reviewed along with such modifications as linkage, sex linkage, and modified dominance interactions. Focus is placed on the molecular basis of inheritance, including gene expression and regulation. Current relevant molecular techniques are learned and applied in the lab, including DNA extraction, gel electrophoresis, restriction enzymes, and PCR. *2 class hours; 3 laboratory hours*

Credits: 3

Prerequisites: BI 2304, CH 1104, Junior Status

Offered: Semester II

BI 4423 Ecosystem Ecology

This course examines the control and function of the Earth's global biogeochemical cycles, drawing from the biological, geological, and chemical sciences. We will explicitly address aquatic and terrestrial ecosystems and consider current and future anthropogenic perturbations to ecosystem processes. Topics to be addressed include global and regional carbon cycles, nutrient cycling, decomposition, trophic dynamics, and trace gas fluxes. The history, theories, and utility of the ecosystem concept will be explored. Attention will also be paid to current topics in the ecosystem sciences (specific topics TBD; examples from recent years include heterogeneity, urban ecology, ecological stoichiometry, use of stable isotopes, and response of ecosystems to stress and disturbance, and effects of invasive species). *3 class hours*.

Credits: 3

Prerequisites: BI 2004 and Junior Status

Offered: Semester II

BI 4703 Biodiversity Capstone

This course brings senior students in the biology programs together to synthesize information through critical reading and discussion of research papers, using foundational knowledge from their coursework. In addition, students will gain experience in communicating science to the broader public. As a culmination of their science curriculum, students will complete a professional portfolio to aid in searches for employment or application to graduate school. *3 class hours*

Credits: 3

Prerequisites: BI 1213 and Senior Status

Offered: Semester I

Business

BU 1133 Sustainable Financial Management

This course is designed to introduce students to the concepts and techniques necessary to analyze and implement optimal investment decisions. It covers the effect of time and uncertainty on decision making and such topics as discounting techniques and applications, stock and bond valuation, diversification and portfolio choice, and capital budgeting. This course gives students a foundation in how sustainability issues affect the various sectors of finance and financial approaches, and an understanding of how integrating sustainability principles and practices into finance can be used to make a business become more effective, reduce risks, and create opportunities. Students will gain the tools to evaluate, quantify and assess environmental, social and governance metrics of companies as a way of making investment choices. *3 class hours*

Credits: 3

Prerequisites: A minimum of 16 UC credits completed

Offered: Semester II
Alternate Years Odd (starting Spring 2019)

BU 2233 Managerial and Environmental Accounting

Managerial accounting focuses on the needs of the manager for accounting information to make informed decisions on the internal operations of a company. Topics include decision-making, accounting for planning and control, cost-volume-profit relationships, and budgeting. It includes application to the impact of transactions on the financial position and profitability of a business, and analyzing, exploring financial statements of real-world corporations and enterprises. Responsibility toward environmental problems and the broader issues of sustainability will be addressed using a framework that categorizes issues into the conventional model of accounting, analysis and disclosure, cost management and managerial decision making, capital investment analysis, auditing, and taxation. *3 class hours*

Credits: 3

Prerequisites: Sophomore Status

Offered: Semester I
Alternate Years Odd (starting Fall 2019)

BU 2513 Marketing and Mindset

Sustainable business decisions begin with a fundamental understanding of the marketplace, the role of the consumer and the impact of human consumption. It embraces understanding target markets, competition, globalization, industry analysis, and related concepts in order to improve the human-environment interaction through the creation, communication and delivery of superior value and relationship management. Students explore the behavioral and business decision-making process for marketing and management as they are introduced to strategic processes critical to business success. They will also learn how to function within successful teams in providing a service as they engage with broad-based enterprises to analyze and recommend solutions to real-world business challenges and opportunities. Each team will be assessed by an outside panel to judge their effectiveness in putting theory into practice. *3 class hours*

Credits: 3

Prerequisites: Sophomore Status

Offered: Semester II

BU 3223 Sustainability, Ethics and Corporate Social Responsibility

This course explores how business can be a force for positive change in the world. Students examine how CSR is more than simply being 'less bad', but rather how flourishing involves creating sustainable value both within a company and beyond. Through theoretical and hands-on exploration, students learn how to balance the needs of a wide array of stakeholders – shareholders, customers, local communities, and the natural environment - to change the world through business, which may include sustainability audits in existing firms or developing a “green” strategy for existing organizations. Students will look at case studies of sustainable enterprises drawn from areas such as energy, agriculture, food services, and tourism. Familiarity with relevant ethical expectations that promote, enable and enhance the efforts of sustainability managers to achieve beneficial human and environmental outcomes is included. The concepts and ideas learned in this course will apply to both for-profit and non-profit enterprises. *3 class hours*

Credits: 3

Prerequisites: Junior Status

Offered: Semester II

BU 3243 Entrepreneurship for a Better World

This course addresses the basics of a business or e-Business start-up and operation from envisioning a product or service to understanding market niche and the constraints and opportunities posed by the taxation and regulatory environment. It offers a framework for understanding the entrepreneurial process and exposes students to opportunities and challenges of entrepreneurs who start new businesses. *3 class hours*

Credits: 3

Prerequisites: Junior Status

Offered: Semester I
Alternate Years Even (starting Fall 2018)

BU 3252 Resolving Environmental Challenges

This course introduces ADR and explores the types of processes for successfully resolving environmental disputes. The course includes a review of the benefits and drawbacks of ADR. Traditional ways to resolve disputes (mediation, conciliation, and arbitration) as well as newer methods, are covered with a focus in terms of examples and application on relevant environmental and sustainability issues. Practical exercises enable the student to have a better appreciation of dispute resolution processes and techniques. *2 class hours*

Credits: 2

Prerequisites: Junior Status

Offered: Semester I
Alternate Years Odd (starting Fall 2019)

BU 3273 Sustainability Management and Leadership

The course examines positive approaches for provisioning goods and services that result in long-term business profitability, restored natural world integrity, and the emergence of vibrant and stable communities. Course content is based upon behavioral science concepts and research findings directed toward the understanding of human behavior in various social contexts. Students will explore people-centered initiatives, productivity in the workplace and leadership strategies that effectively promote a sustainable environment and a flourishing society. Leadership and management theory and practice are taught using case studies, project engagement and self-assessments and reflection. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: Junior Status

BU 4443 Business Capstone in Strategic Management

The Business capstone is an opportunity for students to interact with a major real-world project which spans all of the tracks offered within the major. It offers students a hands-on, multi-disciplinary experience in their professional program that intentionally integrates their environmental science course work with their business program learning to achieve results. The course offers students an opportunity to participate in an intensive, hands-on management-level work experience in a business or not-for-profit setting by helping the organization capitalize on an opportunity. The student will learn to see an enterprise as a whole and understand how the various pieces of the business puzzle fit together. It emphasizes the use of creative problem solving, innovation and divergent/convergent thinking techniques throughout all phases of the project. The capstone will involve researching current information pertaining to the project, conducting site analysis evaluations, analyzing critical incidents, and submitting a final written report and oral summaries to their peers and the organization's leadership. Upon completion of this course students will have acquired strong insights into an industry and an organization and been offered career-building contacts. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: Junior Status

Alternate Years Even (starting Spring 2020)

Chemistry

CH 1104 General Chemistry I

This, first part of a two-semester course, is designed to provide an introduction to the nature and properties of matter at the atomic and molecular level. Topics covered will include chemical problem solving, measurement, significant figures, components of matter, aqueous solutions, origin of atoms, structure of atoms, structure and reactivity of molecules, and chemical reactions. *3 class hours; 2 lecture hours*

Credits: 4

Offered: Semesters I and II

Prerequisites: MA 1013

CH 1114 General Chemistry II

The second part of a two-semester course is designed to provide an introduction to the nature and properties of matter at the atomic and molecular level. Topics covered will include thermodynamics (enthalpy and entropy), chemical equilibrium, acid-base chemistry, electrochemistry, ideal gases, and chemical kinetics. *3 class hours; 2 lecture hours*

Credits: 4

Offered: Semester II

Prerequisites: CH 1104

CH 2324 Organic Chemistry

This class focuses on the diverse chemistry of carbon compounds, with emphasis on those of importance in the biological and environmental sciences. The laboratory will consist of the synthesis and characterization of a wide variety of organic compounds. *3 lecture hours; 3 laboratory hours*

Credits: 4

Offered: Semester II

Prerequisites: CH 1114

Alternate Years Odd

CH 4034 Biochemistry

Biochemistry represents a bridge between chemistry and biology, investigating and explaining the chemistry that gives rise to the living state. Biochemical processes control the flow of energy, information, and materials within organisms. Topics covered in this course include the structure and function of biological molecules, bioenergetics, metabolic pathways, enzymology, and cell signaling. These topics can be understood in the context of current issues in biology including toxicology, immune system function, nutrition, and disease. The lab component will use basic techniques from biochemistry and the related subject of molecular biology to better understand how biochemical processes are investigated, how they occur, and how they are regulated. *3 class hours; 3 laboratory hours*

Credits: 4

Prerequisites: BI 2304, CH 1104 and Junior Status

Offered: Semester II
Alternate Years Even

CH 4044 Environmental Chemistry

This environmental chemistry class covers fundamental chemical concepts, such as kinetics and equilibrium, as they relate to environmental issues. The laboratory portion will include a major project related to topics in aqueous chemistry, atmospheric chemistry, geochemistry, and/or solid and hazardous waste chemistry. This is an intensive field and laboratory course that spends significant time monitoring environmental conditions and analyzing samples in the lab. Students are expected to manage semester-long projects in small groups and communicate their results to outside stakeholders. *3 class hours; 1 laboratory hours*

Credits: 4

Prerequisites: CH 1114 and Junior Status

Offered: Semester II
Alternate Years Odd

Conservation Law Enforcement

CL 1003 Introduction to Criminal Justice

This course provides an introduction to the components and processes of the criminal justice system in the United States. Topics include the history, structure, function, and philosophy of our system of justice and how it integrates into everyday life in our society. Students will discuss our justice system's historic English roots, the evolution of American law, and the variety of law enforcement agencies, including their distinctive operational characteristics. Particular attention will be given to conservation officers and their specialized role in resource protection. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester II

CL 1013 Introduction to Conservation Law Enforcement

This course provides students with an overview of the conservation law enforcement profession. The dual role of the modern conservation officer as law enforcement officer and protector of our natural resources is stressed. A wide variety of professional roles are examined including game warden, park ranger, marine warden, and forest ranger. The future importance to the conservation officer of community and public relations, toxic waste regulations, and recreational vehicle safety are also discussed. Laboratory sessions focus on applied skills such as hunter safety, map and compass use, outdoor survival, and search and rescue. *2 class hours; 2 laboratory hours*

Credits: 3

Prerequisites: None

Offered: Semester I

CL 2001 Firearms Training

This course covers the handling, use and maintenance of firearms by law enforcement officers. Loading techniques, cleaning methods, and inspection procedures of service weapons used by law enforcement agencies will also be covered. Students will receive range experience and qualify on a police firing range (using State of Maine standard) with each weapon. Firearm safety will be stressed throughout the course along with State of Maine laws on liability, personal responsibility, gun control, concealed weapons, and self-defense. *2 hours combination of class and laboratory*

Credits: 1

Prerequisites: Sophomore Status

Offered: Semesters I and II

CL 2033 Marine Law Enforcement

This course covers the history, evolution, principles, and contemporary application of marine law enforcement operations including specialized federal and state agencies. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crime, matters of criminal responsibility, commercial and recreational violation, environmental issues, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes, codes, and elements. *3 class hours*

Credits: 3

Prerequisites: CL 1003 and Sophomore Status

Offered: Semester I
Alternate Years Odd

CL 2113 Wildlife Law Enforcement

This course covers the history, evolution, principles, and contemporary applications of state and federal wildlife law, with a focus on enforcement by conservation law enforcement agencies. Students will learn how to interpret and apply the substantive law, as well as understand how criminal, procedural or constitutional law applies in the conservation law enforcement context. The class will also cover the classification of crimes, parties to crime, elements of crimes, the principles of criminal responsibility, recreational violations, environmental issues, illegal trade, and other related topics. Upon completion, students should be able to discuss the sources of law and identity, interpret, and apply the appropriate statutes, codes and elements. *3 class hours*

Credits: 3

Prerequisites: CL 1003 and Sophomore Status

Offered: Semester I

CL 2123 Community Relations and Ethics

This course will cover necessary cooperation and interaction that occurs between various law enforcement agencies and communities or populations they serve giving special consideration to customs, race, gender, and unique circumstances. In addition, students will consider ethical and accepted standards found within various enforcement organizations. Topics include ethical decision making, social change, sub-cultures, values and norms, cultural diversity, citizen involvement in justice issues, and other related topics. Upon completion, students should be able to apply ethical considerations to the decision making process in various law enforcement situations. *3 class hours*

Credits: 3

Prerequisites: Sophomore Status

Offered: Semester II

CL 3013 Courtroom Procedure and Evidence

This class introduces students to the judicial system and the adjudicatory process, from incident to disposition. The class addresses all aspects of the issue of the admissibility of evidence, from the formal rules of evidence to the constitutional limitations governing admissibility. Students will learn the steps in a trial, the types of evidence that may be introduced, methods of authenticating evidence, the hearsay rule and its many exceptions, the concept of privilege, and the exclusionary rule, with special emphasis on the requirements of the Fourth, Fifth, and Sixth Amendments. Upon completion students should understand what is required to ensure that evidence collected will be admissible in court, including procedures necessary to affect a lawful arrest and search, and to establish a proper chain of custody. Students will also have an understanding of the rules of evidence sufficient to help them to present evidence in court in an efficient and effective manner. *3 class hours*

Credits: 3

Prerequisites: CL 1003 and Sophomore Status

Offered: Semester I

CL 3113 Environmental Enforcement

Federal, state, and local governments pass laws to protect natural resources and the environment, but these laws mean nothing without compliance. This does not happen automatically but is the result of efforts by the government to encourage and compel such compliance. In this class students will discuss those various efforts and the essential role the enforcement officer plays in making those efforts a success. After taking this class, students will be familiar with the policy and legal issues raised by environmental enforcement, as well as practical issues faced by the enforcement, and the separate procedures involved in each. Students will also know the basics of how to do a regulatory inspection and how to write an investigative report. *3 class hours*

Credits: 3

Prerequisites: Sophomore Status

Offered: Semester II
Alternate Years Odd

CL 3224 Crime Scene and Investigative Techniques

This course covers the basic and special techniques employed in criminal investigations and investigative interviews and interrogation, including interpretation of verbal and physical behavior and legal perspectives. In addition, this course introduces the theories and fundamentals of the investigative process. Topics include hands-on forensic laboratory work, crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, and other related areas. Upon completion students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation. *3 class hours; 2 laboratory hours*

Credits: 4

Offered: Semester II

Prerequisites: CL 3013 and Sophomore Status

CL 4413 Law Enforcement Leadership

This course introduces students to the principles and analysis of the most effective theories concerning organizational leadership, with a focus on their appropriate applications throughout the criminal justice system. Through a balanced approach of practical and theoretical views, we will explore the importance of leadership characteristics, traits, motives, and styles. Issues of leadership ethics and social responsibility, power, politics, and tactics will be paramount. Upon completion, students should have a comprehensive understanding of the importance of effective leadership in all law enforcement organizations, including commitment to the public service values, effective communication, vision, stakeholder considerations, and collaboration with both internal and external audiences, inspiring a lifelong commitment to the practice and study of effective leadership in law enforcement. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: Junior Status

CL 4503 Conservation Law Capstone

This course will provide an opportunity for students to apply the knowledge and skills they have learned in the previous courses to a series of cases involving conservation law enforcement operations. The course will emphasize real-life problem solving, strategies and incident management. Operating alone and in teams, students will draw upon a wide range of subjects applying knowledge rooted in wildlife management, administration, communication, investigative sciences, and broad-based concepts of environmental stewardship to make oral and written presentations. Upon completion of the course, students will have the confidence and ability to resolve a variety of issues facing law enforcement officers. *2 class hours; 2 lab hours*

Credits: 3

Offered: Semester I

Prerequisites: Senior Status, CL 3013, CL 3224 or concurrent enrollment

CL 4515 MCJA Partnership

In partnership with the Maine Criminal Justice Academy, Unity College offers Conservation Law Enforcement program students interested in pursuing state or local law enforcement careers the opportunity to attend the eighteen-week Basic Law Enforcement Training Program at the Academy as part of their academic program. Students who successfully complete the Basic Law Enforcement Training Program (BLETP) at the Maine Criminal Justice Academy will receive 15 credits from Unity College. Successful completion of the BLETP is considered equivalent to completing all of the following courses: CL 3224 Crime Scene and Investigative Techniques, CL 4503 Conservation Law Capstone, CL 4413 Law Enforcement Leadership, and a 5-credit elective. If a student has already completed an otherwise waived course, the BLETP credits will count as elective credits at the 3000 level. Students who are interested in attending the Basic Law Enforcement Training Program while enrolled at Unity College should meet with a Conservation Law Enforcement faculty member during their junior year for further information regarding requirements, costs, and eligibility. Please note that students who attend BLETP are not eligible to receive academic credit for completing the National Park Service Seasonal Law Enforcement Training Program.

Credits: 15

Offered: Semester II

Prerequisites: Senior Status; 3.0 (or better) grade point average; pass physical fitness test requirements prior to faculty approval; two letters of recommendation; application essay and resume; oral board.

Communications

CM 1001 Communication Studio

This one-credit course offers extra support to students in small groups that focus on students' individual writing and communication needs. Students will get support in two ways: 1) They will learn about themselves as learners by reading and writing about material on learning—especially the habits of mind that contribute to college success—and they will practice these habits. 2) They will give and receive feedback on their writing and speaking projects and practice a range of strategies for generating material and revising their work. Incoming students may be placed in this class upon the recommendation of the writing placement diagnostic review team to support their work in other Unity College classes that require written, oral, or digital projects. Current students may be placed in this class as a consequence of needs identified after completion of CM 1003 or at the recommendation of the Unity College Composition and Communication course teaching coordination group. May be repeated once for credit. *1 tutorial hour*

Credits: 1

Offered: Semesters I and II

Prerequisites: Instructor Consent

CM 1003 Composition and Communication I

This class uses an inquiry-based approach to engage students in questions about what makes successful communication. Students learn a range of strategies for active reading, active listening, and multimedia composition. They will create print, verbal, and digital texts in a workshop setting with an emphasis on informing public audiences. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: None

CM 1013 Composition and Communication II

These theme-based classes guide students through the process of inquiry-based research. In a workshop setting, students learn to craft research questions, find and evaluate sources via the Internet and the library, and create persuasive print and digital texts. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: CM 1003 with a grade of a C or above or CM 1003 with a D and concurrent enrollment in CM 1001

CM 2013 Interpersonal Relations

This course introduces problem encounters with the public and prepares the student for situations which occur in dealing with people. Particular emphasis will be put on learning to listen, problem solving, and maintaining control at all times. This will be accomplished through studying and discussing cases that present situations which may be encountered in the field. Role playing will be a required part of class participation. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: CM 1003 or PF 1023

CM 2123 Environmental Communication

From Aldo Leopold to Al Gore—how humans think, talk about, and represent nature has had an impact on policy-making, natural resource management, and the place that nature has in our day-to-day lives. In this course students explore how people (including themselves) think about the environment, how that is used (and used against them) by advertisers, policy-makers, and opinion leaders, and how responsible environmental citizens can join (or resist) the effort to manage public opinion about the environment. Topics include environmental rhetoric, media and journalism, public participation in environmental decision making, social marketing and advocacy, and nature in popular culture and green marketing. This is a community-based service-learning course. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: CM 1013

CM 2233 Digital Media Production

This course is designed to provide an introduction to digital media, storytelling, and online communication platforms. Students will focus on how to capture stories with audio/visual equipment, build their stories with industry standard software, and communicate these stories via ever-evolving online publishing platforms. Students

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will explore and gain an understanding of effective web design, as well as build their own website to host work from the semester. *4 class hours*

Credits: 3

Offered: Semester II

Prerequisites: None

CM 3113 Documentary Film

From “*Nanook of the North*” to “*An Inconvenient Truth*” documentary film makers have struggled to balance fact with craft in this increasingly relevant medium. Students will get a crash course in documentary film in preparation for the Camden International Film Festival early in the semester. Students will then plan, pitch, and work in teams to produce a documentary film. Students will gain experience in documentary planning, filming, interviewing, camera technique, video-editing, narrative development, and post-production. This course requires attendance at the Camden International Film Festival. This course has an associated course fee. *4 studio hours*

Credits: 3

Offered: Semester I

Prerequisites: CM 1013

Fee: \$75

CM 3123 New Media

New forms of mass-personal communication are persistent yet dynamic. This course will explore practices and ideas involved in the ever-evolving new media landscape. We will investigate how new media platforms shape the way people consume and share information using effective communication principles. We will also evaluate the effects of social media on user identity, peer interaction, safety, security, privacy, and related topics - all through the lens of environmental communication in the 21st century.

Reading, writing and reflection are part of this course in both collaborative and individual contexts. Students will engage with each other and the world beyond the classroom, examining and evaluating events and issues by using platforms such as Twitter, Instagram, Linked-In, and others to communicate effectively. Parts of this course may be familiar while some will undoubtedly be new. Given the fast-paced speed of new media development, this course will be a journey of discovery - inspiration for making progress in the understanding of environmental communication in a new media landscape. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: CM 1013

CM 3333 Environmental Journalism

Ours is a time of environmental concern, but also commonly referred to as the “information age.” Most people get their information about the environment from the news media, whether in print, online, or on television. This class will grant participants an opportunity to grapple with both the techniques and issues involved in environmental journalism. Students will read and write real-world environmentally focused newspaper, newsletter, or magazine articles. Students will be encouraged to submit their work for publication in local, regional, or national outlets. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: CM 1013

Alternate Years Odd

Economics

EC 2003 Introduction to Economics and Economic Criticism

This course examines the basic principles of economics from a critical perspective. It includes economic history, supply-demand theory, consumer choice theory and theory of the firm. Macroeconomic and trade theories are also introduced. In each case students briefly examine the major alternate points of view. Students solve basic problems and perform calculations using the theories learned. *3 class hours*.

Credits: 3

Offered: Semester I

Prerequisites: MA 1223 or MA 2243

EC 2013 Environmental Economics

This course introduces students to the problem of environmental and resource conservation through the viewpoint of economics. Topics include the history of economic thought and the contemplation of conservation as an ethical

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proposition; the tradition of sustained yield management and its application through land management policy; the tradition of Coasian environmental economics and its application through pollution control policy; and emerging concerns of global environmental change, including economics-based attempts to control climate change, reform energy production, and stem biodiversity loss. No prior economic training is required. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: None

Alternate Years Even

EC 3003 Ecological Economics

This course examines ecological economics in the tradition of Ernst Schumacher, Nicholas Georgescu-Reogen, and Herman E. Daly, with attention paid to both theory and praxis. The latter can be found and examined critically in diverse social, economic, and business movements such as the “Triple Bottom Line”, The Natural Step”, “Transition Towns”, “Degrowth” and others too numerous to mention and ever-changing – which is why we begin with theoretical founders and basic principles. This is the economics of sustainability and sustainability science. Its overriding theoretical concept, that infinite growth in the physical throughput of matter-energy in the human economy is impossible if the planet is finite, is the basis of all scientific sustainability theory, including climate change mitigation. Also taught are an introduction to dynamic systems modeling, the analysis of environmental externalities, lifecycle analysis, and calculation of energy return on investment (“EROI”). This is an advanced course in a quantitative social science. Algebra is required, as is a willingness to critically examine the biophysical and social consequences of mainstream economics. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: Sophomore Status

Alternate Years Even

Education

ED 1010 Educational Field Lab

Students enrolled in any education course are required to complete a set of number of field experience hours. The observations are integral to learning and allow students an opportunity to connect classroom theory to practical application. Students will concurrently enroll in an ED course or PY 3213 and a lab one time per week for each registered ED or PY 3123 course. Observations will be assigned through the Teacher Education Program office.

2 class hours

Credits: 0

Offered: Semesters I and II

Prerequisites: Co-requisites: ED 1013, ED 2113, ED 2102, ED 2212, ED 3122, ED 3333, ED 3443, PY 3123

ED 1013 Foundations of Education

This course is an overview of the various ways of educating within American educational institutions, to include socialization processes. The student will analyze current education practices in terms of history, philosophy, and socio-culture factors of formal and informal learning. This course emphasizes trends, issues, and potential alternatives and requires twelve hours of field experience. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: Concurrent enrollment in ED 1010

ED 2003 Experiential Theory and Practice

This course serves as an introduction to theory and scholarship review. Content focuses on learning theories and relevant philosophers who have influenced non-traditional education efforts. Models pertinent to adventure education, problem based learning, service, and place-based methods will be explored. Students will apply theory and models through observations and experience in physical, cognitive, and affective methods of instruction, group management, and learning assessment. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: Concurrent enrollment in ED 1010

ED 2102 Educational Field Practicum I

Students will participate in 25 hours of field experience in an approved educational (formal or non-formal) setting. Secondary Education majors will work in grades 7-12 public school classrooms. Students in other programs will work with the coordinator of field placements to set specific goals and identify an appropriate setting for the practicum. Participation will primarily focus on multiple observations, but may also include student

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tutoring and assisting in science learning activities. During the weekly seminar, students will become familiar with standards of best practice, including Maine's Common Core Teaching Standards, and complete a series of reflective assignments. *1 class hour*

Credits: 2

Offered: Semesters I, II, or by Arrangement

Prerequisites: Concurrent enrollment in ED 1010

ED 2113 Instruction and Assessment Design

This course covers the design, implementation, and assessment of programs. Goals, objectives, instructional design, and formal and informal assessments will be covered. Resources, delivery methods, and delivery media will be explored. Emphasis will be placed on students developing the skills and knowledge necessary to plan and carry out programs. Students will have opportunities to give program presentations. Each student will complete five hours of approved observation of educational programs. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: ED1013, PY1013, Sophomore Status and concurrent enrollment in ED 1010

ED 2212 Teaching with Technology

This course will introduce and explore a variety of tools that can be utilized in the classroom to facilitate an engaged learning process. Students will learn to appropriately use a variety of technologies to more effectively promote learning. Six hours of field observation will be required. *2 class hours*

Credits: 2

Offered: Semester I

Prerequisites: ED 2113 and concurrent enrollment in ED 1010

Alternate Years Odd

ED 3122 Educational Field Practicum II

Students will participate in 25 hours of field experience in grades 7-12 public school science classrooms. They will critically observe instructional practices, support learners as they engage in instructional activities, and have opportunities to develop and implement science instruction. Additionally, students may participate in faculty meetings or professional development activities. During the weekly seminar, students will continue to develop their professional portfolio, compiling artifacts and reflective journal entries that demonstrate their understanding and mastery of the Maine Common Core Teaching Standards. *1 class hour*

Credits: 2

Offered: Semesters I, II or by Arrangement

Prerequisites: ED 2102, passing scores on the State of Maine Praxis I exam; enrollment in Secondary Education major and concurrent enrollment in ED 1010

ED 3223 Curriculum and Evaluation Design

This course provides the prospective teacher with an overview of theory and research in the field of curricula, plus hands-on experience in curriculum development. ED 3223 includes historical, philosophical, and sociological perspectives on both the explicit and implicit curriculum. Students will develop skills in the use of alternative forms of evaluation. Exploration and guided practice in the processes of writing and evaluating curricula for local school districts is included. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: ED 2113

Alternate Years Even

ED 3333 Education for Exceptional Children and Youth

This course provides an in-depth examination of both traditional and emerging perspectives in special education. The course content includes characteristics of the exceptional student. Additional topics include learning theories and styles as they relate to exceptional children, classroom and instructional management, classroom modification/accommodation, overview of state and federal laws, and family and support services. The course format is a combination of lecture, guest speakers, group activities, and field experiences. Each student will complete 10 hours of field experience in a setting where exceptional children are learning. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: PY 1013, Sophomore Status and concurrent enrollment in ED 1010

ED 3342 Exceptional and Universal Programs

This course is designed to acquaint students with the skills needed to work with people who have developmental disabilities. Students apply knowledge from ED 3333-Education for Exceptional Children and Youth to the

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adventure and experiential education field. Students will hone their programmatic understanding as it relates to working with specific populations by designing and implementing small scale programs with regional participants and/or agencies. Two separate weekends may be scheduled to allow for distinct program application with agencies.

1 class hour; 4 laboratory hours

Credits: 2

Offered: Semester II

Prerequisites: ED 3333 or concurrent enrollment

ED 3443 Teaching Science in the Secondary Schools

This course provides instructional strategies and general approaches to teaching science in grades 7-12. Emphasis is placed on professional literature, curriculum development, teaching and learning styles, and reflective teaching. The course includes science safety issues and practices. Students will complete twelve hours of field experience in secondary schools. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114 or CH 1114, ED 2113, Junior Status and concurrent enrollment in ED 1010

ED 3912 Internship in Education

The internship will be a student teaching experience in an assigned middle or high school classroom. This experience will be full-time for a full semester. The student will have progressive involvement in the middle/high school classroom leading up to assuming complete responsibilities for teaching. The student will have a field supervisor and will follow the public school calendar for 15 weeks. The student will present his/her professional portfolio aligned to Maine's Common Core Teaching Standards prior to the end of the experience. *This course fulfills the internship required in the disciplinary core of courses.*

Credits: 12

Offered: Semester I and II

Prerequisites: Consent (Secondary Education major; Approval from the Teacher Education Committee after initial portfolio presentation)

ED 4912 Student Teaching

The internship will be a student teaching experience in an assigned middle or high school classroom. This experience will be full-time for a full semester. The student will have progressive involvement in the middle/high school classroom leading up to assuming complete responsibilities for teaching. The student will have a field supervisor and will follow the public school calendar for 15 weeks. The student will present his/her professional portfolio aligned to Maine's Common Core Teaching Standards prior to the end of the experience. *This course fulfills the internship required in the disciplinary core of courses.*

Credits: 12

Offered: Semesters I and II

Prerequisites: Consent (Secondary Education major; Passing scores on the State of Maine Praxis II exam; Approval from the Teacher Education Committee after initial portfolio presentation)

English

EH 1123 Environmental World Literature: Theme-Based

With an overview of the relationship between nature and culture, this class emphasizes analysis and imagination in global environmental literature. Students will read and write about texts from a range of cultures in multiple media to gain an understanding of diverse environments and literatures. They will create final projects that represent the relationships between nature and culture today. This course may be repeated for credit with a different theme. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: CM 1013

Alternate Years Odd

EH 2213 Introduction to Environmental Writing

From poetry to nonfiction – from Gary Snyder to Rachel Carson – environmental writing remains the most widely influential methods for advocating on behalf of the environment. This course gives students the opportunity to practice environmental writing and read exemplary works. Students may study and produce environmental fiction, non-fiction and poetry. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: CM 1013

EH 3213 Professional and Technical Writing: Theme-Based

This service-learning course prepares students for professional writing in their disciplines by developing skills in writing, editing, graphics, document design, and the management of data and other resources. Students will have the opportunity to learn about the variety of writing demands in various disciplines and occupations. They will also have the opportunity to create a variety of reports, documents, and web pages related their own research and career plans. Course topics may include: science writing, grant and report writing, NGO writing, written communication in business, and writing for the web. This course may be repeated for credit if taken with a different theme. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: CM 1013

EH 4213 Writing for Publication

So you've learned what makes a good article or essay; you've gone out and done some pretty cool stuff; you think other people might like to know more. What happens next? In this course, we'll explore different modes of writing for publication, beginning with classic magazine and journal articles, and then advancing to digital and electronic media. This semester will be largely workshop-based and with an emphasis on students sharing their writing and feedback. Throughout the semester, you will also have the opportunity to work as contributing staff on *Hawk & Handsaw: The Journal of Creative Sustainability*. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: CM 1013

Environmental Sciences

ES 1003 Introduction to Natural Resources

This is an introductory course that focuses on careers in parks, forestry, wildlife, fisheries, outdoor recreation/education, and land management professional fields. Discussions of current global, regional and local problems affecting natural professionals as they work toward a sustainable economy will be included. Guest lectures, field trips to work sites, and hands-on lab experiences are planned. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I and II

Prerequisites: None

ES 1031 Introduction to Global Positioning Systems (GPS)

This 7-week course is designed to provide students with the opportunity to use GPS (Global Positioning Systems) devices for travel, data collection and mapping. As this technology becomes more and more commonplace it is important that students be exposed to the underlying theories and limitations as well as the applications. Collecting data and utilizing appropriate mapping software to produce useable field maps will be incorporated into the content of the course. *1 class hour; 2 laboratory hours*

Credits: 1

Offered: Semesters I and II

Prerequisites: None

ES 200X Techniques in the Environmental Sciences: Theme-Based

In this course students learn and apply various field and laboratory techniques used in the environmental science professions. Emphasis is placed on acquiring new skills and putting the skills to practice to improve abilities. Skills may be field-based (e.g. wetland delineation, mist-netting and bird banding), lab-based (e.g. molecular techniques, software applications for analysis) or a mix of field and lab (e.g. sediment coring and analysis, marine polychaete identification). This course may be taken more than once for credit under different topics. *Hours depend on theme*

Credits: 1 or 2

Offered: Semester I or II

Prerequisites: As dictated by topic

ES 2103 Introduction to Geographic Information Systems (GIS)

This course is designed for students from any discipline who are interested in applying GIS as a tool to help answer important and timely questions about our environment. This course presents the concepts upon which Geographic Information System technology is based including the fundamentals of: Cartography, Geodesy, Coordinate Systems, and Projections. Conceptual overview and hand-on experience of vector data analyses and table queries are

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introduced. Students will use *ArcGIS* to classify data, query tables and maps, analyze spatial relationships, set map projections, build spatial databases, edit data, and create map layouts. Lectures are given weekly, followed by hands-on lab experiences to develop and reinforce methodologies for GIS analyses. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: Successful completion of the computer proficiency exam or IC 1001

ES 3013 Oceanography

Oceanography examines the interplay between the physical, chemical, geographical, and biological processes on the sea. Topics in this course will include plate tectonics, properties of seawater, waves, primary productivity, detrital cycling, and the role of oceanic currents in affecting global climate. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: CH 1104; and BI 2033 or PS 2004 or GL 1003 or GL 2003 or Junior Status.

ES 3183 Limnology

Limnology is the study of physical and chemical conditions of lakes and streams. Local lotic and lentic waters will be characterized, compared and contrasted. The physical and chemical components of regional freshwaters will be described by theoretical and conceptual models in lectures. Laboratory exercises will be oriented toward water quality monitoring in the practical application of resource managers. *2 class hours; 3 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114 and either BI 2004 or GL 2003

Alternate Years Odd

ES 3213 Applied Geographic Information Systems (GIS)

Applied GIS is an advanced GIS course where we will explore GIS as a tool to answer questions about our nature and human made environment. The focus of this course will be on the raster data model and *ArcGIS Spatial Analyst*, including the use of map algebra. Students are asked to complete an independent project with a local organization as part of the requirements of this course. We will cover aspects of technical writing within the framework of GIS project proposals and a final technical report. Students are also asked to complete a professional poster and presentation of their project. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: ES 2103

Forestry

FY 1011 Chainsaw Safety, Maintenance, and Use

The chainsaw is one of the basic tools used for wood harvesting, line clearance, tree work, and camp and trail maintenance work. Because numerous people are killed and injured while operating a saw, it is important that people trained to work in many of the outdoor fields be familiar with the safe and efficient use of a chainsaw. After spending some time viewing safety videos and reviewing operational procedures students will be felling, limbing, and bucking trees as well as learning about some basic maintenance techniques out in the woods. *3 class hours*

Credits: 1

Offered: Semester I and II

Prerequisites: None

FY 2013 Forest Measurements

Description of tree, log, and stand-level components of forest resources and forest products; log rules and scaling practices; surveying and land description; introduction to summary statistics, as well as remote sensing are covered in this foundational course in field practices. Labs will include application and field practice of forest measurement techniques. Tree, log, and stand-level measurement of forest, forest product, wildlife, and social attributes; statistical computing and sampling methods. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester II

Prerequisites: MA 2243

FY 2043 Dendrology

Dendrology is the study of trees and other woody plants. Trees currently face rapid environmental change—from new herbivores and pathogens to changes in precipitation, air temperature, and soil chemistry. In this course students will learn how trees are adapted to the ecosystems in which they grow, and how changes in their

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environment may affect them. Throughout this course students will examine the natural history, ecological relationships, and identification characteristics of species within the major tree and shrub families found in New England. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: None

FY 2163 Fire Ecology and Management

This course provides students with foundational knowledge on how fire impacts forest environments, environment and weather influence fire behavior, wildland fires are suppressed, and fire is used as a land and vegetation management tool.

3 class hours

Credits: 3

Offered: Semester II

Prerequisites: None

FY 3223 Forest Ecology

An understanding of forest community ecology is central to sound decisions in sustainable natural resource management. This course will develop and understanding of the theoretical basis of plant community ecology. In addition, through classroom and field study, the course will develop knowledge and skills in the application of this theory to understanding and interpreting the ecology of real forest settings. It is assumed that the students have an understanding of basic ecological concepts and terminology (such as those gained in Population and Community Ecology or Dendrology). Secondly, this course will enhance critical reading and thinking skills, clear writing and expression, and creative thinking. *2 class hours; 2 laboratory hours.*

Credits: 3

Offered: Semester II

Prerequisites: BI 2004 or FY 2043

FY 4003 Forests and Society

This 3 credit course is designed to introduce students to the wide array of issues facing forests and the people/societies who rely on them. The interactions between humans and forests are vast and the services we expect forests to perform for society are broad. This course will explore all aspects of human interactions with forests including small forest ownership, prospects of forests to reduce poverty, ecosystem services, the societal forest interface and threats from human encroachment. Alternative uses of forests and solutions to these problems will be broached. The first part of the course will focus on case-based scenarios and fieldtrips. The second part of the course will concentrate on using social science methods to investigate the attitudes, beliefs, and values of landowners.

2 class hours; 2 laboratory hours

Credits: 3

Offered: Semester I

Prerequisites: Junior Status

FY 4213 Silviculture

This 3 credit course is designed for students to gain an understanding of the principles and techniques of silvicultural systems, artificial and natural regeneration methods, and intermediate cultural treatments, applied to forest stands to meet multiple objectives. We will explore all aspects of applied forest ecology from individual tree growth to stand dynamics. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: MA 2243, FY 3223

Geology

GL 1003 Physical Geology

Physical Geology is the gateway course to the geosciences and serves to introduce students to the fundamental components of the Earth-Atmosphere system. Our exploration into the field of geology begins with some basic principles and mapping, and rapidly shifts into hard-rock geology (igneous, sedimentary, and metamorphic rocks), composition of Earth materials, and soils. From there, we move into a water-related section of the course covering stream processes and other surficial waters, groundwater, and glaciers. We conclude with a section on plate tectonics, structural geology, natural hazards, and volcanos. The geosciences is a discipline that emphasizes observation and visualization, hence lectures are riddled with images of the landscape,

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animations, and schematics to aid in understanding the physical environment. Labs serve as a critical component to course material by providing hands-on exercises, opportunities for first-hand visualization and other applied learning activities. A lot of the geosciences rely heavily upon observation of the natural environment, and many of our labs include fieldtrips to do just that. Students should possess basic reading, comprehension, and computation skills in order to successfully complete this course and its lab components.

2 class hours; 2 laboratory hours

Credits: 3

Offered: Semester I

Prerequisites: None

GL 1013 Weather and Climate

Spatial and temporal variability of weather events and climate patterns influence all components of the environmental system – from soils and vegetation to water resources and landform development, and of course human activities. That said; a thorough analysis of the atmosphere is critical if one is to comprehend how and why weather events change from day-to-day and climate systems shift. Topics discussed will include: air masses, air pressure, temperature variability, precipitation, weather map analysis and interpretation, and severe weather (e.g. tornadoes and hurricanes). Furthermore, these analyses of weather at short timescales can be easily extended to understand how and why climate patterns change over a variety of timescales from decade to decade, millennia to millennia, and everything in between. We will examine the mechanisms that drive climate to change; study past, present, and future climates, and see how climate change research is conducted. In this course, students will examine a variety of atmospheric science topics over a broad spectrum of spatial and temporal scales via lectures, hands-on exercises, mapping, data analysis, computer modeling, and fieldwork. Students should possess basic reading, comprehension, and computation skills in order to successfully complete this course and its lab components. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester II

Prerequisites: None

Alternate Years Odd

GL 2003 Environmental Geology

The physical landscape exerts a strong control on human activity – whether it be glacial history and soils influencing agriculture or drinking water supplies, a city devastated by an earthquake or some other natural hazard, human inquiry into past environments, flooding, erosion, and more. In certain situations, humans influence the physical environment and our analysis of these physical environment-human interactions will occur at several different spatial and temporal scales. For example, we will examine soils from Unity, Maine and tectonic activity from the western United States. Natural hazards can occur in the blink of an eye, whereas groundwater contamination can happen over a period of several years, and archives of environmental change are recorded over several thousand years. Laboratories are designed to complement lecture material and will focus on applied learning topics such as physical analyses of soils, mapping exercises, photo and map interpretation, quantitative analysis of surface and groundwater, and field surveys. Students should possess basic reading, comprehension, and computation skills in order to successfully complete this course and its lab components. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester II

Prerequisites: None

GL 3044 Surface and Groundwater Hydrology

Water – without it, life is impossible! This course systematically covers the role of water in Earth systems with emphasis on surface water and groundwater. The course relies heavily on computer modeling and quantitative analysis of hydrologic data recorded by students and presented in data sets. Our focus will begin with the hydrologic cycle and we will explore the pathways water molecules travel through Earth Systems. Next, we will begin breaking the hydrologic cycle down into its constituent parts for further analysis including precipitation, surface runoff and erosion, infiltration and groundwater, human impacts on hydrology, evapotranspiration, and much more. In lab you will learn how to collect and analyze hydrologic data and use computer models to simulate various elements of the hydrologic cycle. Special attention is given to topics that influence the movement of water on and below the surface. This course requires extensive field work conducted mostly during class time. Students should possess strong reading, comprehension, and computation skills in order to successfully complete this course and its lab components. *3 class hours; 3 laboratory hours*

Credits: 4

Offered: Semester I

Prerequisites: MA 1223, CH 1104, GL 1003 or GL 2003

Alternate Years Even

GL 3223 Geomorphology

Geomorphology, or the study of landforms and the processes that create them, is a broad discipline that includes examination of fluvial systems, glacial systems, soil systems, eolian systems, and coastal systems. This course introduces students to a variety of geomorphic systems in and around central Maine through abundant field trips. Students will spend time in lecture learning about the theoretical aspects of geomorphology and expand upon this knowledge with first-hand experiences that will include field observation and field analysis of major landform types. *1 class hour; 4 laboratory hours*

Credits: 3

Prerequisites: GL 1003 or GL 2003

Offered: Semester I
Alternate Years Odd

GL 3433 Soil Science: Principles and Applications

This course covers numerous topics related to soils beginning with the fundamentals including field and lab description, soil types, and soil erosion. Additional topics include the study of soils for use as environmental indicators that record complex climate and vegetation evolution patterns over time; soil chemistry and its influence on agricultural yields, solubility and mobility of soil constituents, and control on overall soil development; soil geomorphology, soil taxonomy, soil geography; and computer modeling of runoff and soil erosion as well as radiocarbon dating. This course includes in-depth field and laboratory work. Most field work consists of performing field descriptions of soil and maintenance and upkeep on soil erosion plots. Lab work consists of various physical and chemical analyses conducted on samples gathered in the field as part of soil pit descriptions or erosion research. Students should possess strong reading, comprehension, and computation skills in order to successfully complete this course and its lab components. *2 class hours; 3 laboratory hours*

Credits: 3

Prerequisites: CH 1104 or GL 1003 or GL 2003

Offered: Semester I

GL 3524 Lake Sedimentation

Environmental change is one of the most pressing issues of our time. As such, research into how landscapes evolve in the wake of climate change and anthropogenic impacts is a prominent discipline. Lake sediments serve as valuable archives of environmental change and have yielded a plethora of information not only related to past environments, but provide insight on the current state of Earth systems and provide the necessary tools to predict what might be in store for the future. Coursework includes field trips to frozen lakes, lab analysis and computer modeling, in addition to theory behind various proxies for environmental change. Students in this course will collect lake sediment cores and subject them to rigorous analyses including organic matter content, fossil pollen, charcoal, and more. The interpretations of these sediment proxies will be used to reconstruct how landscapes evolved in central Maine over the past 12,000 years. *3 class hours; 3 laboratory hours*

Credits: 4

Prerequisites: GL 1003 or GL 2003

Offered: Semester II
Alternate Years Even

GL 4003 Global Change

This course covers the science of climate and related ecological change in depth. Students learn the geological history of climate and climate change, study the atmospheric, astronomic, geological, and anthropogenic processes that lead to change, examine the basics of mathematical climate change modeling, study the predictions that result and their differing basis, and project the results onto the landscape in the form of analysis of potential for future regional and local changes. *3 class hours*

Credits: 3

Prerequisites: Junior Status or consent

Offered: Semester II

GL 4011 Earth and Environmental Science Seminar: Theme-Based

This course examines important timely topics of Earth and environmental sciences. Students will engage in reading significant primary literature, lead discussions, and write thoroughly researched papers pertinent to the subject matter. *1.5 class hours*

Credits: 1

Prerequisites: CH 1104, CH 1114, BI 1114, GL 1003 or GL 2003; CH 4034 or CH 4044 or GL 3044 or GL 3223 or GL 3433 or GL 3524 or GL 4003; Junior Status

Offered: Semester II
Alternate Years Even

Gender Studies

GS 1023 Introduction to Gender Studies

This course offers a brief glimpse into the lives and histories of women in the modern Western world. Students will read writings by and about women, paying particular attention to depictions of women in pop culture, biology vs. gender, and cultural otherness. Throughout the semester, special attention will be given to understanding the development of the women's movement, the rich and varied experiences of women from different ethnic backgrounds, and personal reflection on our own experiences and histories. Students may be expected to complete a service project for this course. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester II

Alternate Years Even

Geography

GY 1003 Geography

Geography describes, relates, and explains both the natural and cultural features that distinguish different areas on the face of the earth. At the same time, geography is concerned with the phenomena of continual change: the ways people modify their environments as reflections on changes in cultural values and levels of technology; and the ways the physical environment presents opportunities and constrains for human development. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester I

Alternate Years Even

Humanities

HU 1003 Spanish

This course is an introduction of the use of the Spanish language with its emphasis on active communication through conversation, as well as the skills of reading and writing. The course features hands-on communicative activities which will involve pair and group work. Students also develop some rudimentary knowledge about the cultures of the Spanish-speaking world. This course is designed for the beginning student with no previous experience in Spanish. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester I

Alternate Years Even

HU 2003 American Environmental History

How have Americans interacted with nature, and how has nature, in turn, shaped American society? This question lies at the heart of environmental history, which seeks to understand the history of human interactions with the natural world. As we delve into this field, we will consider topics such as changes to New England ecosystems, the decimation of bison, the history of natural disasters, and the environmental consequences of urbanization and industrialization. We will think together about how nature differs among peoples, places, and times; how the meanings people give to nature inform their cultural and political activities; and how these historical forces continue to shape the American landscape and its peoples. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester II

HU 202X Topics in Humanities

What does it mean to be human? How can we cultivate a sense of wonder? What forms our identity and sense of place? How do the humanities inform science? This topics course explores these questions and more by offering students an opportunity to apply the disciplines that make up the humanities; namely, literature, history, philosophy, and cultural studies. Topics vary from semester to semester and may include: Civil Disobedience, the Environment in Documentary Film, Reading Food, Mythology and Folklore, or World Music. The course may be offered as a 1, 2, or 3 credit course, and may be repeated for credit with a different theme. *Length varies with theme*

Credits: variable

Prerequisites: CM 1003

Offered: Semesters I and II

HU 2033 Intermediate Topics in Humanities

This course teaches students about the connections between human and natural worlds via the study of diverse texts that focus on a particular theme, such as farming, hunting, animal rights, and travel. Students will read challenging texts in a range of media, such as novels, paintings, and films; they will analyze these texts in their historical contexts; and they will write about these texts in relationship to their understanding of the relationships between human and natural worlds. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: CM 1013

HU 2123 Spanish II

Students will develop their abilities in speaking, listening, reading, and writing in Spanish to a high novice level. Emphasis is on active communication through conversation. Students will also continue their introduction to Hispanic culture. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: HU 1003

Alternate Years Odd

HU 3033 Advanced Topics in Humanities

In this course, students will expand on their knowledge of methods used in the humanities in order to explore cultural phenomena rooted in a specific time and place. The topics vary from semester to semester and may include, for example, The Politics of Nineteenth Century New England Tribal Peoples, American Abolitionist Literature, Popular Culture in the Middle Ages, and Post-Colonial African Sculpture. Each course is designed to meet higher-level outcomes in reading, research, writing, and critical thinking. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: Junior Status or HU 2033

HU 3113 Global Environmental History

Some societies rise to greatness and then collapse, while others persist for millennia. We will wrestle with the idea that the biggest determining factor for long-term success is a society's relationship to the natural world, even as we probe related factors such as how people organize themselves to share information, make decisions, and use power. We will look at cases throughout human history, from small-scale bands and communities to regional empires and the emerging world-system, to discover why some societies fail, how the "dark ages" that follow can act as incubators for future growth, and how other societies persist and adapt. Are we due for a collapse, given the patterns of history, and what would a post-collapse world look like? What lessons can we learn in order to prevent a fall of the world-system? *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: Sophomore Status

HU 3133 Art History

This course is an introduction to the art of the world from antiquity to the present. Students will develop analytical and interpretive skills in the context of a historical understanding of art. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: CM 1013 and Sophomore Status

Alternate Years Odd

Interdisciplinary Core

IC 1001 Digital Literacy and Environmental Stewardship

Digital literacy is the ability to find, evaluate, utilize, create, and share content using information technologies and the internet. In the context of this course, each Unity student builds his/her identity as an environmental steward by gathering, managing, and analyzing topical datasets using relevant software including spreadsheets. Data management skills are complimented with further emphases on digital collaboration and networking presence to promote responsible digital citizenship. *2 hours per week, 7 week course*

Credits: 1

Offered: Semester I and II

IC 1111 Unity Transfer Experience

Unity College transfer students will work with a small group of other first semester students to get settled, oriented, and (most of all) involved. Among other things, students will identify campus and community resources, establish a support network, and engage in community collaboration. This course requires a community service contribution. *1 class hour*

Credits: 1

Offered: Semesters I and II

Prerequisites: At least 24 college credits accepted in transfer or at least 22 years of age

IC 1112 Unity Experience

This first-semester course introduces students to Unity College and the Environmental Citizen curriculum. It includes engagement with campus resources, academic advising and planning, community service, and an introduction to a key environmental issue. The structure of the course is largely experiential. *2 class hours*

Credits: 2

Offered: Semesters I and II

Prerequisites: None

IC X213 Community Applications

Let's get something done. Work together with classmates, faculty, and community members to investigate an environmental or social concern. Topics vary with instructor; examples include "Citizen Science" featuring scientific monitoring of species and ecosystems, "Investigating Issues and Action" featuring environmental controversies; or "Landscape Conservation" featuring service learning with local conservation groups or land trusts. Each semester, supplementary course descriptions detailing the topics covered are published in the course schedule. This course may be repeated for credit if a student chooses a different topic, may be taught at any level from 2000 to 4000, and meets the community based learning requirement. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: IC 1111 or IC 1112, IC 2223, and Sophomore Status

IC 2223 Environmental Issues and Insights

What are the most pressing environmental issues of our time? What do we need to know to address them? In this class, students approach these questions by expanding their knowledge and perspective, discussing important environmental ideas, and thinking about their future. Study of popular culture, history, and social conditions provide the bigger picture and put our environmental challenges in context. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: IC 1111 or IC 1112, and CM 1013

IC 3413 Environmental Scenarios and Solutions

Environmental Scenarios and Solutions bring students from multiple disciplines together to envision strategies for a sustainable future in the context of a changing climate. Training in quantitative literacy will prepare students to work in teams to analyze major 21st century problems that they are likely to encounter in their future careers. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: IC 2223 and Junior Status

Mathematics

MA 1013 College Algebra

College Algebra is designed for students who have limited background in algebra. It is expected that students taking this course can perform operations with signed numbers, simplify basic algebraic expressions, and solve proportions, linear equations, and systems of linear equations. These topics will be reviewed briefly. Topics of focus include simplifying and performing operations with polynomials, graphing polynomial functions, simplifying radical expressions, factoring, solving quadratic equations algebraically and by graphing. Interdisciplinary projects and applications will be integrated throughout the curriculum.

3 class hours

Credits: 3

Offered: Semesters I and II

Prerequisites: Placement

MA 1223 Precalculus

This course is a sequel to MA 1013 and concludes our algebra sequence. Students continue their study of algebra and analytical geometry, and begin their study of trigonometry. Further topics from algebra including exponential and logarithmic functions, along with introductory topics from trigonometry including circular functions, trigonometric and inverse trigonometric functions, and solutions to right and oblique triangles will be studied. The course is designed to develop an understanding of the topics from algebra and trigonometry essential to the study of calculus. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: MA 1013 or Placement

MA 2003 Applications in Mathematics: Theme

In this thematic course, alternative topics not covered in the traditional Precalculus, Calculus, and Statistics sequences are introduced. Various tools and methods of problem solving are discussed and utilized. Topics may include, but are not limited to, probability, logic, modeling, geometry, algebra, game theory, and history of math. This course fulfills the Disciplinary Core Math requirement. This course may be repeated with a different theme for credit. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: MA 1013 and others as dictated by theme

MA 2243 Elementary Statistics

This course deals with various introductory topics from probability and statistics with emphasis on the interpretation of experimental data. Students will study descriptive statistics, probability distributions, and inferential statistics (tests of hypotheses). In addition, students will actually do statistics using technology tools such as the *TI-83* calculator, *Microsoft Excel* or the campus wide statistics package *JMP*. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: MA 1013

MA 2333 Calculus I

Calculus is the mathematics of change. Calculus I deals with an introduction and treatment of the major concepts and techniques of differential calculus. Students will study the heuristic, visual, and algebraic approaches to: different equations, limits, and rates of change of functions (derivatives). Applications of derivatives will include optimization and differential equations used in modeling. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: MA 1223

MA 3253 Applied Statistics

This course is for students who wish to continue their study of statistics. The topics to be studied in the course all fall under the general heading of inferential statistics or tests of hypotheses. These statistical tests include t-tests, Z-tests, chi-square tests, F-tests, analysis of variance, regression and correlation, along with the nonparametric Runs test. Throughout the course, students will use technology tools such as the *TI-83* calculator, *Microsoft Excel*, or the campus-wide statistics package *JMP* to supplement and enhance the classroom material. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: MA 2243

MA 3263 Biometry

Biometry, biological statistics, or quite simply biostatistics, is the application of statistical methods to the solution of biological problems. Topics to be studied include: the collection, organization, analysis, presentation and interpretation of biological data; the statistical principles underlying the management of biological data; and the use of various technology tools such as the *TI-83* calculator, *Microsoft Excel* or the campus-wide statistics package *JMP*. *3 class hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: MA 2243

MA 3443 Calculus II

The study of calculus continues with students being introduced to the main topics of integral calculus. Students will study antiderivatives, define and indefinite integrals, techniques and applications of integration to probability, environmental science, physics, and solution to separable differential equations from the heuristic, visual, and analytical approach. Throughout this course, students will use software packages to supplement and enhance the classroom material. Calculus is a tool of great importance, and a basic understanding of it is a prerequisite for further study in any branch of science theory. *3 class hours*

Credits: 3

Prerequisites: MA 2333

Offered: Semester II

Alternate Years Even

Parks and Forest Resources

PF 1023 Interpretation of Natural and Cultural Heritage

Students will create personal interpretive programs while practicing fundamental oral communication methods and techniques. Completion of this course enables students to become interpretive guides in natural and cultural resource areas and facilities. Students will develop a portfolio of skills demonstrating best practices for interpretive talks and walks. *2 class hours; 2 laboratory hours*

Credits: 3

Prerequisites: None

Offered: Semesters I and II

PF 2123 Sustainable Ecotourism

Students will explore a wide range of possible sustainable ecotourism activities including traditional outdoor activities like hiking, canoeing, hunting, fishing, and traditional touring experiences like scenic drives, shopping for local goods, and visiting local natural and cultural sites. Comparisons between standard tourism practices and development politics with ecotourism principles form the basis for creative student projects that explore new management agencies and private for-profit business. *2 class hours; 2 laboratory hours*

Credits: 3

Prerequisites: Sophomore Status

Offered: Semester I

Alternate Years Even

PF 3213 Visitor and Resource Protection

The course will examine roles of visitor and resource protection, law enforcement, search and rescue, fee collection, and special operations. Students will participate in field operations in addition to classroom sessions. *3 class hours*

Credits: 3

Prerequisites: Junior Status

Offered: Semester I

Alternate Years Odd

PF 4123 Interpretive Methods

Students critically examine the wide variety of personal and non-personal interpretive methods used by organizations that deliver natural, cultural, and/or historical interpretation programs. Working in teams, students design effective interpretation programs that include personal presentation, exhibits, website, audio/visual publications, and then present them to public audiences. Collaboration with the community partner organization is often a requirement for this course. *2 class hours; 2 lab hours*

Credits: 3

Prerequisites: PF 1023 and Junior Status

Offered: Semester I

PF 4223 Park and Forest Resource Planning

This course is designed to acquaint students with park planning principles and procedures. Students will work through the major phases of facility design. The lab section in this class will provide students with hands-on experience in the park and open space planning process. *3 class hours*

Credits: 3

Prerequisites: Senior Status

Offered: Semester I

Political Science

PL 1013 American Democracy

This course approaches the basic history, structure, and character of American politics, governmental institutions, and laws through the exploration of concepts and issues in areas such as civil liberties, federalism, judicial review, political parties, interest groups, and the role of media and public opinion. A key assignment is semester-long analysis, reporting, and presentation by each student on multiple aspects of a unique U.S. House or Senate campaign in progress. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester I
Alternate Years Even

PL 2013 State and Local Government

Reading, lectures, essay-writing, in-class presentations, research projects, discussion, debate, role-playing, group exercises, video viewing, and a field trip to the Maine State Capitol are some of the tools this course uses to understand state and local government practice and policy. The aim is to bring governing to life. Students will analyze and communicate, orally and in writing, the history and current status of important state and local policy issues. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester II
Alternate Years Even

PL 2033 World Politics

This is the study of the basic concepts in relations among the world's nations, and of forces that exist beyond the nation-state. Students will analyze and communicate, orally and in writing, the history and current status of important international policy issues such as nationalism, globalization, security, the United Nations, the role of women in international relations, and environment and population in developing countries. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semester II
Alternate Years Odd

PL 3013 Issues in Food and Agriculture

If America is a Fast Food Nation, how did we get that way? How do politics, economics, culture, and geography shape what people eat? How do food and agriculture affect our way of life and our environment? How do various organizations involved in food policy prioritize and respond to food and agricultural issues? This course will examine global questions and look at local examples of how these questions play out for people and communities in Maine. *3 class hours*

Credits: 3

Prerequisites: Sophomore Status

Offered: Semester I

PL 3213 Natural Resource Law

Natural resource law pertains to the regulation, management, and allocation of open access resources such as forests, fisheries and wildlife, water, land, and minerals. This law is older than, and in many ways established the framework for, the major modern environmental pollution statutes, such as the Clean Air and Water Acts, which are covered in a separate course, Environmental Law. Because one-third of this nation's lands are federal public lands, much of the natural resource law has developed in the context of the management of public lands by federal land management agencies, including the NPS, FWS, FS, and the BLM. This course will focus on the development of natural resource law primarily, but not exclusively, on public lands; the decision process of the agencies that manage the natural resources on those lands; and the laws that establish the limits of the authority for that management. Using case studies and current issues, students will learn how different stakeholders and the courts have influenced the law that determines how our natural resources are managed and protected. *3 class hours*

Credits: 3

Prerequisites: PL 1013 or PL 2013 or Junior Status

Offered: Semester I

PL 3233 Environmental Law

In the 1970's, Congress enacted numerous environmental statutes aimed at protecting the nation's environment from the impacts of uncontrolled development and industrial pollution, and improving the quality of the federal government's environmental decision making. These include the Clean Air Act, the Clean Water Act, the Resource

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Conservation and Recovery Act, the Toxic Substances Control Act, CERCLA and the Safe Drinking Water Act. It was also at this time that Congress created the EPA to administer the major new regulatory programs established by these laws, as well as another new agency, the Council on Environmental Quality, to implement what is arguably the most important piece of environmental legislation ever written, the National Environmental Policy Act. Many states have adopted similar laws. This course will focus on both the substance of major U.S. environmental pollution statutes and the decision making process of the agencies that administer them (a body of law known as administrative law). Using case studies and current issues, students will learn how different stakeholders and the courts have influenced how agencies implement the law and the effect of this in our environment. *3 class hours*
Credits: 3
Prerequisites: PL 1013 or PL 2013 or Junior Status

Offered: Semester II
Alternate Years Even

PL 3413 Environmental Advocacy

How can we persuade others to help us protect the environment? Do the ends justify the means? This course offers the theoretical and practical groundwork needed to evaluate goals and put ideas in action. Students learn how to plan campaigns, build coalitions, conduct focus groups, select and influence audiences, and create and deliver effective messages. Students will discuss and analyze a variety of advocacy programs and plan an actual advocacy campaign. A field trip may be required. *3 class hours*
Credits: 3
Prerequisites: Sophomore Status

Offered: Semester II

PL 4413 Natural Resource Policy

How do governments deal with society's effects on the natural world and the environment's effect on humans? The purpose of this course is to help students develop ways and means to investigate this question. Students explore issues and conduct policy analysis in areas such as water resource management, global climate change, environmental justice, toxic and hazardous waste, and comparative strategies in environmental protection. The course features guest lectures by outside experts, field trips, and policy research projects designed to make a difference in the real world. *3 class hours*
Credits: 3
Prerequisites: Junior Status

Offered: Semester I

Physics

PS 2004 Physics: Mechanics and Energy

This course focuses on mechanics and energy. Topics covered include Newton's laws of motions and their applications, forces, work and energy, principles of conservation, rotational and harmonic motion, and pressure. The associated laboratory section includes both hands-on and mathematical explorations of projectile motion, collisions, rotational motion, and pendulums. *3 class hours; 2 laboratory hours*
Credits: 4
Prerequisites: MA 1223 or concurrent enrollment

Offered: Semester I

PS 2014 Physics: Heat, Electricity and Magnetism

This course focuses on electricity and magnetism. Topics covered include thermodynamics, waves and sound, electricity, magnetic force and fields, electromagnetic waves, and nuclear energy. The associated laboratory section includes both hands-on and mathematical explorations of circuits, waves, solar panels, magnets, and light. *3 class hours; 2 laboratory hours*
Credits: 4
Prerequisites: MA 1223 or concurrent enrollment

Offered: Semester II
Alternate Years Odd

PS 2023 Practical Mechanics and Carpentry

This course introduces the practical and applied arts of mechanics and carpentry, with close attention paid to self-reliance, small business and farm applications. A group project is required. Projects are found through meeting the needs of college courses and activities, or through community partners, local businesses and non-profits. *6 lab hours*
Credits: 3
Prerequisites: Sophomore Status

Offered: Semester I
Alternate Years Even

PS 3003 Sustainable Energy

This course is an application of basic physics and introductory engineering to the problems of sustainable energy production systems. Topics covered include solar, hydroelectric, wind, wave, tidal, and biomass energy systems. Taught as a combination of lecture and engineering shop, students respond partly through constructing a major project or demonstrator in renewable energy or energy efficiency. *2 class hours; 2 laboratory hours*

Credits: 3

Prerequisites: Junior Status

Offered: Semester II

Alternate Years Even

PS 3303 Green Building: Assess, Design, Retrofit

Green building in the 21st century will focus on energy efficiency, energy conservation, carbon footprint reduction, and related concerns. Treating buildings as systems, this course will examine the principles and practices of green design used by architects, designers, builders, and energy auditors. Students will consider the building shell, space heating plant, lighting, ventilation, and appliances. Among other activities, students may model the energy performance of various building designs, audit the performance of existing buildings, and weatherize homes. *2 class hours; 2 laboratory hours*

Credits: 3

Prerequisites: Junior Status

Offered: Semester I

Alternate Years Odd

Psychology

PY 1013 Introduction to Psychology

This course is a survey of psychology as a science of behavior. Topics include basic principles underlying behavior and experience, learning, human development, motivation, personality, and psychotherapies. *3 class hours*

Credits: 3

Prerequisites: None

Offered: Semesters I and II

PY 2013 Human Development

This course is a survey of development of the person across the entire age span from conception to death. For each stage physiological, intellectual, social, emotional, and psychological aspects of growth are studied. Emphasis will be placed upon environmental influences that can promote the individual's growth and development. *3 class hours*

Credits: 3

Prerequisites: PY 1013

Offered: Semester II

PY 2113 Group Process

The basic principles of small group interaction will be explored in both didactic and experiential components of the course. Topics will include communication skills, values clarification, group problem solving, group communication models, stages of group development, briefing and debriefing techniques, leadership and facilitation models, and group termination. Some emphasis will be placed on aspects of processing diverse groups – non-formal educational, therapeutic and wilderness settings included. This class will be offered in the spring Experiential Educator's Block and on campus in the fall. *Hours dependent on semester taken*

Credits: 3

Prerequisites: None

Offered: Semesters I and II

PY 3013 Human Sexuality

This course will examine multiple aspects of the subject area on human sexuality. Students will gain an understanding of this topic from psychosocial and physiological perspectives. Specific areas to be studied will include sexuality and popular culture, dimensions of gender, and male and female sexual anatomy. Various forms of intimacy and sexual expression in different cultures will be explored as well as typical sexual behaviors and forms of sexual coercion, including harassment, aggression, and abuse. *3 class hours*

Credits: 3

Prerequisites: PY 1013

Offered: Semester II

Alternate Years Even

PY 3123 Educational Psychology

This course examines the nature of learning and instruction in considerable depth. It emphasizes theories and research and covers diverse materials related to how people think, learn, and develop, including language, cognition, motivation, and memory. It also covers skills essential to effective teaching; developing instructional strategies, planning and managing classroom activities, and assessing student learning. This course includes both lecture and experiential components and both individual and collaborative projects. Students are required to complete eight hours of observation in an educational setting. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: PY 1013, Sophomore Status and concurrent enrollment in ED 1010

PY 3133 Abnormal Psychology

This course offers an in-depth study of various theoretical perspectives on psychological disorders, including psychosis, depression, anxiety, psychoactive substance use, and disorders of childhood and adolescence. Bio-genetic, socio-cultural, and psychological theories of abnormality are examined, as are corresponding modes of treatment. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: PY 1013

PY 4223 Counseling Theories for Wilderness Programming

This course presents the basic issues of counseling in a wilderness setting with its limitations and potentials. Students will be introduced to therapeutic counseling models: Reality Therapy, Person-Centered Therapy, and a Trans-Theoretical model for wilderness-based counseling. The course is a combination of theory, application and practice in which the student will be introduced to the philosophy and concepts of counseling in a wilderness setting as well as developed skills in each of the specific models mentioned above. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: PY 1013

Alternate Years Even

Sustainable Agriculture

SA 1003 Fundamentals of Organic Horticulture

Successful organic farming and gardening depends on a sound grounding in the fundamentals of soil management, crop planning, pest management, and season extension. Students will engage in these fundamentals using campus gardens, the campus hoop house, and off-campus facilities. In addition, business management and marketing issues related to organic farming will be addressed. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: None

SA 2013 Livestock and Pasture Management

This course covers the management of livestock farm systems, their pastures and paddocks, and associated systems of winter feed production such as hayfields and silage or baled silage production systems. The primary emphasis is on natural/organic farming and dairying using rotation grazing systems, sustainably grown winter-feeds systems, and energy efficient use of manures and farm and household wastes in fertilization. The major species and breeds of livestock and poultry are discussed. The course discusses and practices basic husbandry and vetting for each breed, as well as appropriate shelter, fencing and facilities design, construction, and maintenance. *2 class hours; 2 lab hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114

Alternate Years Odd

SA 2023 Sustainable Pest Management

Nature fills every ecological niche with organisms that exploit available resources – sunlight, nutrients, carbohydrates and water. Some of these organisms compete with human plans for crop production and, hence, earn the name “pest.” This course explores various pest management approaches such as Integrated Pest Management, Plant Health Care, and Ecosystem Management. Students will develop strategies to manage diseases and weeds. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisite: BI 1114

SA 2113 Sustainable Agriculture Systems

A survey of North American farms will reveal strikingly different farming models, from the large industrial/commodity model to the smaller scale local food model and others in between. This course explores the economic, social, and ecological sustainability of various farm models. Through field trips, films, and readings, students will explore issues of farm viability, environmental impact, and the interrelationships between farms and their surrounding communities. Particular emphasis will be placed on strategies used by farmers to create successful small-scale, diversified, sustainable farms. *4 class hours*

Credits: 3

Offered: Semester I

Prerequisites: BI 1114 and Sophomore Status

SA 3363 Soil Fertility

Healthy ecosystems require healthy soil. In this course students learn about soil chemical and biological characteristics and how they relate to plant and animal nutrition and agriculture systems. Plant uptake mechanisms for nutrients, the roles of organic matter and soil microorganisms in soil ecosystems, use of soil amendments, and nutrient cycling issues are addressed. Students will devise management recommendations for specific sites and plants. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester II

Prerequisites: CH 1104

Alternate Years Odd

SA 4014 Sustainable Agriculture Project

In this course, students will prepare detailed farm management plans covering soil management, pest management, livestock husbandry, irrigation, crop planning, labor management, financial analysis, and marketing. Whenever possible, students will partner with existing or proposed farms. Students may propose an equivalently rigorous alternative project related to some aspect of food and agricultural policy. *3 class hours; 2 laboratory hours*

Credits: 4

Offered: Semester II

Prerequisites: SA 3363 or PL 3013 and Junior Status

Alternate Years Even

Sociology

SY 1013 Introduction to Sociology

Sociology is a field of study that explains social, political, economic and ecological phenomena in terms of social structures, social forces, and group relations. This introduction focuses on socialization, culture, the social construction of reality, inequality, race and ethnic relations, poverty, and political sociology. Students gain an understanding of the three main sociological perspectives, apply them to make sense of contemporary social problems, and realize how one's individual circumstances are shaped by much larger social forces. *3 class hours*

Credits: 3

Offered: Semester I

Prerequisites: None

SY 2013 Criminology

This course introduces the development of criminology theory from a historical perspective through current developments. Particular emphasis will be put on the impact of criminological theory on the development of laws and our national concept of punishment and rehabilitation. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: None

SY 3193 International Development and Sustainability

This course covers the historical roots of the idea of development and their implications for sustainability and the interrelationship among businesses and civil society (NGOs) in addressing pressures such as population growth, food security, poverty, inequality, urbanization, technological change, international trade, and environmental change at local, regional and global scale, and devising innovative solutions. The course explores the manner in which the private sector and civil society can catalyze action to advance the achievement of the sustainable development goals. Travel may be required. *3 class hours*

Credits: 3

Offered: Semester II

Prerequisites: Junior Status

Alternate Years Even

Unity College

UC 2111 Project Assistant: Theme-Based

By working closely with faculty members outside of the classroom, students gain valuable skills and knowledge and garner real world experience in a guided setting. Examples of this type of work include learning research skills while working with a faculty member on a project, assisting faculty with the orchestration of community outreach or education efforts, or collaborating with faculty on unique program initiatives. A student who wishes to enroll must consult with their sponsoring faculty member to develop a work plan and timeline, outline learning objectives, and determine modes of evaluation as part of an agreement form before the end of Add/Drop and submit to the Registrar. *Hours vary by individual*

Credits: 1

Offered: Semesters I and II

Prerequisites: Faculty Approval

UC 3001 Honors Seminar

Through lively discussion and critical reading and writing, students will develop their skills in synthetic reasoning while expanding their knowledge of current issues and transdisciplinary topics. Previous seminars have included the topics of Science and Media, National Parks' Response to Climate Change, and Ethnobiology. This course may be repeated for credit under a different theme. *1.5 class hours*

Credits: 1

Offered: Semester II

Prerequisites: Sophomore status and a minimum cumulative grade point average of 3.33

UC 4001 Data Collection

This one-credit offering allows students to collect data in support of a thesis. Students must outline their plans for data collection with their thesis advisor(s) during Senior Thesis I and justify the need for this work to take place prior to registering for the Thesis II. This research based thesis class is open to all majors including but not limited to natural, physical and social sciences, although sampling and analysis methods will differ between fields of study.

Hours vary by individual

Credits: 1

Offered: Semesters I and II

Prerequisites: Consent

May & Summer

UC 4003 Senior Thesis I: Project Planning and Design

Through instructor and peer guidance, students in this course develop a full project proposal for their thesis. Students should come into the course already with some idea for a project and an idea of a thesis advisor. Students will refine their project ideas, conduct a thorough literature review, construct a detailed project plan and timeline, and test data collection protocols. Course activities will include project planning, peer evaluation of project ideas, and time for consultation with the instructor to receive feedback. This research based thesis class is open to all majors including but not limited to natural, physical and social sciences, although sampling and analysis methods will differ between fields of study. *1.5 class hours; 1.5 computer lab hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: Junior status, MA 2243 and a minimum cumulative grade point average of 3.00.

UC 4013 Senior Thesis II: Data Collection, Analysis, and Presentation

A thesis is a substantial written work that documents and defends a viewpoint or hypothesis relying on the use of rigorous field, lab, or other research. During this course students work mostly independently under the guidance of their thesis advisors to complete data collection and analysis, write and revise their written thesis, and develop and deliver a presentation for a public defense. Students will also meet once a week with other thesis students and faculty to gain and provide feedback on projects. This course may be repeated for credit when planned for through the proposal stage or in instances of extenuating circumstances that require significantly more work than had been expected. This research based thesis class is open to all majors including but not limited to natural, physical and social sciences, although sampling and analysis methods will differ between fields of study. *2-1.5 class hours; other hours vary by individual*

Credits: 3

Offered: Semesters I and II

Prerequisites: UC 4003, Senior Status, and minimum cumulative grade point average of 3.00.

UC 4023 Creative Thesis

The creative thesis is a capstone experience that allows you to showcase your skills and abilities as a writer: in other words, it represents a bridge between your work as an undergraduate student and as a student in a Master of Fine Arts program or as a professional writer in an environmental field. Usually completed during your senior year, this project enables you to create a publishable collection of work in your chosen area of specialty; perhaps it is a chapbook of poems, a series of feature articles, a memoir, or a digital platform for a local nonprofit. The specific topic and methodology of the project will be determined by you and your two faculty thesis advisors. A student who wishes to enroll must consult with the faculty advisors to develop a work plan and timeline, outline learning objectives, and determine modes of evaluation as part of the thesis proposal. This written thesis proposal must be approved by your faculty advisors and filed with the registrar two weeks prior to pre-registration. A copy of the final thesis will be deposited in the Dorothy Webb Quimby Library. The senior thesis may be taken at the 4000 level only, for a maximum of three credit hours for each of two semesters. *Hours vary by individual.*

Credits: 3

Offered: Semesters I and II

Prerequisites: Consent

UC 4033 Applied Thesis

The applied thesis is a capstone experience that allows you to showcase your skills and abilities as a practitioner within a field. Usually completed during your senior year, this project enables you to plan, develop, and implement a significant project in your area of specialty. Examples could include planning, securing funding for, and implementing a plan for a universal trail for a land trust or a greenhouse program for a school. The specific topic and methodology of the project will be determined by you and your two faculty thesis advisors. A written thesis proposal must be approved by your faculty administrator and filed with the registrar. A copy of a final thesis report that includes a description of the planning and implementation and an evaluation, or plan for evaluation of effectiveness of the project will be deposited in the Dorothy Webb Quimby Library. The applied thesis may be taken at the 4000 level only, for a maximum of 3 credit hours for each of two semesters. *Hours vary by individual.*

Credits: 3

Offered: Semesters I and II

Prerequisites: Consent and Junior Status

UC 4111 Project Leader: Theme-Based

In Project Leader, students take initiative for projects under the supervision of faculty. Through these leadership roles in research projects, outreach or education efforts, or program initiatives, students improve upon research skills, expand on their content knowledge, develop stronger personal skills such as independence and communication, and serve as a mentor to their peers. A student who wishes to enroll must consult with their sponsoring faculty member to develop a work plan and timeline, outline learning objectives, and determine modes of evaluation as part of an agreement form before the end of Add/Drop and submit to the Registrar. *Hours vary by individual*

Credits: 1

Offered: Semesters I and II

Prerequisites: Faculty Approval

UC 4501 Seminar: Theme-Based

In this seminar course, a group of students studies a particular topic in an advanced level and under the guidance of an instructor. Each member of the seminar is responsible for contributing to its success through thorough preparation for, and active participation in seminar meetings. Typically, students may be asked to lead discussions, present to the rest of the group, conduct a literature review on a particular question, or seek out guidance from other faculty at the college. The focus of most seminar offerings will be on critical reading and critical thinking rather than content mastery. *1.5 class hours*

Credits: 1

Offered: Semesters I and II

Prerequisites: Junior Status and others as dictated by topic

Wildlife

WF 1002 Introduction to Wildlife and Fisheries Conservation

Wildlife and fisheries conservation is introduced, described, and modeled by faculty and visiting fish and wildlife mentors in context of professional opportunity, funding, regulation, biodiversity, population sampling, harvest potential, resource and habitat management, public perception, and policy development. Students will explore the

CONTINUED ON NEXT PAGE

professional literature, write professionally, anticipate course selection as a wildlife or fisheries student, and develop career goals and objectives. This course is designed to provide current students in the wildlife majors with information to direct their academic and professional career planning. *2 class hours*

Credits: 2

Offered: Semester I

Prerequisites: None

WF 1003 North American Wildlife

This course focuses on preparing students to be knowledgeable about the distribution, natural history, and identification of the major game species of North America. The course is built on taxonomy of big game, small game, furbearers, and waterfowl. Some emphasis is placed on positive and negative societal values as well. General management considerations are discussed. The lab covers the identification specimens in hand and in field simulated images. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: None

WF 1013 Introduction to Wildlife Care and Education

In this class, students will begin to understand the issues and realities of caring for wild animals in a captive setting. They will speak with professionals in the field and gain some hands-on experience. They will learn how to find information about animals and best care practices. They will also gain experience with public speaking and educational principles. At the end of the class, students will have a foundation of knowledge about basic principles and ethics of animal care. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: None

WF 2003 Animal Training

Through exploration of operant conditioning, students will understand the theory supporting animal training and be introduced to various practices and techniques that form the art of animal training. Training is a two-way communication between the trainer and the animal that relies on an understanding of animal behavior. The knowledge and skills learned in this course may be utilized to train domestic and exotic animals for medical procedures, animal husbandry, and animal handling needs. *2 class hours; 2.5 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: None

WF 2433 Wildlife Techniques

This course provides students with the fundamental skills and techniques that are used by wildlife professionals to obtain knowledge and information necessary to monitor and manage wild populations of animals. Emphasis is placed on working with public concerns as well. The application and limitations of specific techniques are discussed in lecture. Topics include: estimating populations, radio telemetry, ageing and sexing, capturing and marking, habitat assessment, data collection, and communicating with people. Laboratory time provides hands on experiences with topics covered in lecture. Supplemental experiences often come through working with professionals in the wildlife field. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semesters I and II

Prerequisites: None

WF 3013 Population Assessment and Management

This course focuses on techniques and practices used to manage populations of wildlife species. Concepts discussed will include how habitat selection and quality, population structure, and interactions with other species influence population growth. We will then explore how these concepts can be applied to harvest management, small population management, pest management, and biodiversity conservation. Techniques addressed will include estimation of population size and other demographic parameters using direct and indirect techniques. *2 class hours; 2 lab hours*

Credits: 3

Offered: Semester II

Prerequisites: BI 2004 and Junior Status

WF 3023 Enrichment and Exhibit Design

When animals are brought up in captive environments they lose the opportunity to make choices. Through exhibit designs and enrichment initiatives, we are able to provide animals with choices promoting natural behaviors. Students in this course will research natural history and behaviors of exotic animal species. They will utilize this information in designing animal exhibits and enrichment devices. During this process they will learn the value of setting goals and assessing the effects of environmental changes on captive animal welfare. *2 class hours; 2 lab hour*
Credits: 3 Offered: Semester II

Prerequisites: WF 1003 or WF 1013 and Sophomore Status

WF 3101 Seminar in Captive Wildlife Care and Education

In this peer-teaching seminar course, students will explore current trends in research relevant to captive animal collections. Topics will be selected at the beginning of the semester and can include current areas of study, future directions, interdisciplinary opportunities, and experimental design challenges in the captive environment. Students will be responsible for finding relevant scholarly articles and leading class discussion on their subject of choice. *1.5 class hours*

Credits: 1

Offered: Semester II

Prerequisites: WF 1013 and Sophomore Status

WF 3103 Habitat Assessment and Management

Sustaining wildlife populations in the face of climate change and other threats requires a sound understanding of the habitat concept and adaptive approaches to habitat management. This course explores the concepts, principles, and terminology associated with understanding how wildlife identify and use habitat, and how managers assess and manage habitat. Students will learn approaches to measuring and assessing habitat use and availability, as well as creating predictive habitat models for management purposes. The course will also acquaint students with approaches and considerations in habitat management of common environments such as forests, wetlands, grasslands, rangelands, and agricultural and urban environments. The course also covers major issues and initiatives influencing habitat management at regional, national and international scales. *2 class hours; 2 laboratory hours*

Credits: 3

Offered: Semester I

Prerequisites: Junior Status

WF 4013 Wildlife Conservation Capstone

This course will enable seniors in the wildlife biology and wildlife and fisheries management to demonstrate their understanding of and ability to integrate material from previous coursework. The ability to extract information from appropriate literature, apply concepts to new situations, work in groups, and write effectively will be emphasized. Students will critically examine case studies of current issues in wildlife management. Students will work in groups to produce products commonly expected to be produced by professional biologists. Examples could include such products as management plans, environmental assessments, and research proposals. *2 class hours; 3 lab hours*

Credits: 3

Offered: Semester II

Prerequisites: WF 3013 or WF 3103 and Senior Status

WF 4034 Animal Health

This course examines the role of caretakers in animal health. It is based heavily on the perspective of animal keepers in zoos, but other aspects of animal work will be reflected. Students will become familiar with common health concerns for captive wildlife, including mechanisms for minimizing disease transmission, utility of animal training in maintaining health, preventative medicine, and general veterinary procedures. *3 class hours; 2 laboratory hours*

Credits: 4

Offered: Semester I

Prerequisites: WF 1003 or WF 1013 or BI 3204 or SA 2013 and Junior Status

WF 4044 Capstone for Captive Wildlife Care and Education

The capstone for the CWCE program will have three focuses: research, behavioral management, and career preparation. Students will work with case studies to bring together knowledge and skills from previous courses to envision solutions to animal management challenges, focused on issues of conservation importance. The instructor will also provide guidance to students in preparing for a job search in the field. Students should be advised that this course will include professional-level projects demanding substantial effort. *3 class hours; 2.5 laboratory hours*

Credits: 4

Offered: Semester II

Prerequisites: WF 2003, WF 3023, WF 4034 and Captive Wildlife Care and Education Major

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2018-2019 Flagship Undergraduate Academic Calendar

Fall Semester

New Employee Orientation	Mon	August 20
New Faculty Orientation	Tues	August 21
Employee Professional Development	Wed-Thu	August 22-23
Faculty Professional Development	Wed-Fri	August 22-24
Convocation	Fri	August 24
New Student Orientation	Fri-Sun	August 24-26
Classes Begin	Mon	August 27
Labor Day – No Classes	Mon	September 3
Add/Drop Period	Mon-Tues	August 27-September 4
Founders' Day	Fri	September 7
Deadline to Apply for Dec. Commencement	Sat	September 15
Instant Admissions Day	Sat	September 15
Community Weekend	Fri-Sun	September 21-23
Fall Break	Mon-Tues	October 8-9
Mid-Semester Grades to Students	Wed	October 17
Fall Open House	Sat	October 20
Last Day to Withdraw from a Class	Wed	October 24
Registration for Semester II	Mon-Fri	November 5-9
Thanksgiving Break	Mon-Fri	November 19-23
Classes End	Tues	December 11
UC Student Conference	Wed	December 12
Final Exam Period	Wed-Fri	December 12-14
December Commencement	Fri	December 14
Final Grades to Registrar	Mon	December 17
Winter Administrative Closure	Wed-Mon	December 26-31

January Session

Classes Begin	Wed	January 2
Add/Drop Period	Wed	January 2
Classes End	Sat	January 12
Final Grades to Registrar	Mon	January 14

Spring Semester

New Employee Orientation	Tues	January 8
New Faculty Orientation	Wed	January 9
Employee Professional Development	Thu-Fri	January 10-11
New Student Orientation	Sat-Sun	January 12-13
Classes Begin	Mon	January 14
Add/Drop Period	Mon-Tues	January 14-22
Martin Luther King Jr. Day- No Classes	Mon	January 21
Deadline to Apply for May Commencement	Fri	February 15
Mid-semester Grades to Students	Wed	March 6
Last Day to Withdraw from a Class	Wed	March 13
Spring Break	Mon-Fri	March 18-29
Spring Open House	Sat	April 6
Registration for Semester I	Mon-Fri	April 15-19
Accepted Student Day	Sat	April 20
Classes End	Fri	May 3
UC Student Conference	Mon	May 6
Final Exam Period	Mon-Wed	May 6-8
May Commencement	Sat	May 11
Final Grades to Registrar	Mon	May 13
Employee Professional Development	Tues-Wed	May 14-15

May Session

Classes Begin	Thu	May 16
Drop Period	Thu-Fri	May 16-17
Classes End	Wed	June 5
Final Grades to Registrar	Fri	June 7