

# Castleton University

## 2016-2017 Undergraduate Catalog

Castleton, Vermont 05735  
www.castleton.edu

Castleton University is accredited by the  
New England Association of Schools and Colleges.

### **Mission**

Castleton University, the 18th oldest institution of higher education in the United States, emphasizes undergraduate liberal arts and professional education while also offering selected graduate programs.

The university is dedicated to the intellectual and personal growth of students through excellence in teaching, close student-faculty interaction, numerous opportunities for outside-the-classroom learning, and an active and supportive campus community. Castleton strives to learn, use, and teach sustainable practices. The university prepares its graduates for meaningful careers; further academic pursuits; and engaged, environmentally responsible citizenship.

As a member of the Vermont State Colleges, Castleton University is committed to supporting and improving the region's communities, schools, organizations, businesses, and environment.

### **Location**

Castleton is located in an area that has long been recognized for its beauty, unique character, and recreational resources. The natural environment of Vermont blends easily with the educational environment of Castleton to create the setting for a unique living and learning experience.

The university's 165-acre campus is situated in the village of Castleton. One of Vermont's largest cities, Rutland, lies 12 miles to the east; New York State is six miles to the west. Montreal, Boston, Hartford, Albany, and New York City are all within easy driving distance on major highways and are accessible by air, bus, and/or train service.

### **Faculty and Curriculum**

Castleton provides an academic experience that draws from two of the university's greatest strengths. On the one hand, students can enjoy the benefits of small classes in a rural setting and Castleton's two hundred years of tradition. On the other hand, they can profit from contact with highly qualified faculty who are strongly encouraged to develop their teaching skills and research interests. These attributes of the institution receive support from fine academic facilities, particularly an excellent Information Technology Services Center whose growth in recent years in quality and quantity of hardware and software is matched by student and faculty interest.

These ingredients, combined with a diverse population of in-state and out-of-state students, provide variety and challenge for all on a very personal level.

Castleton is primarily a teaching institution whose faculty is dedicated to the preeminence of student learning in the life of the university. Castleton faculty comprise a community of scholar-teachers whose academic and artistic endeavors

enlarge and enrich the lives of their students, their colleagues, and the university. Ninety-three percent of the faculty hold doctoral or appropriate terminal degrees in their field of academic specialty. Excellence in teaching requires that professors continue to learn to reexamine established canons of thought and belief, and to expand the frontiers of knowledge through continued study, scholarship, and research. The chief beneficiary of faculty scholarship is the Castleton student, whose classroom experience is heightened by the shared excitement of the professor's own pursuit of knowledge.

## History

Castleton University's roots go back to October 15, 1787, when the General Assembly of the State of Vermont chartered the Rutland County Grammar School in the village of Castleton. In early America a grammar school was the first step in higher education, a link between the local common schools and the few colleges in New England. Of institutions that are colleges today, Castleton is the oldest in Vermont and the 18th oldest in the nation.

The village of Castleton was an intellectual center. The first medical college in Vermont was founded here in 1818 and lasted until 1862. In that time the school conferred some 1400 medical degrees, more than any other New England medical school. Students came from throughout the United States, from Canada, and from distant lands including France, Cuba, Ireland, and Brazil. At least two African-Americans graduated and went on to distinguished careers.

Throughout the 19th century, the school in Castleton evolved and changed names to meet the needs of society. In 1829 the cornerstone of the historic Old Seminary building was laid by Solomon Foot, principal of the Classical High School and later president pro tempore of the U.S. Senate during the Civil War, and Colonel Noah Lee, an early settler who had been with Ethan Allen at the capture of Fort Ticonderoga. In the 1860s, Harriet Haskell, later a nationally known feminist, served as Castleton's first woman principal.

In 1867 the State Normal School was founded in Castleton. For a few years it was housed entirely in the old Medical College building and shared faculty with the Castleton Seminary before that school closed. Normal school is a term based on the French *école normale*, a school to educate teachers. For 30 years Abel Leavenworth, a Civil War hero, and son Philip Leavenworth were principals of the State Normal School. In 1912 the State of Vermont purchased the property.

Castleton entered a Golden Age in the 1920s and 1930s under the leadership of Principal Caroline Woodruff. She helped save the school after the Old Seminary building burned in January 1924. Quoting the Old Testament's book of Haggai, she promised, "And the glory of the latter house shall be greater than that of the former." Woodruff modernized the curriculum, hired excellent staff, and exposed her students to the wider world through guest speakers, who included Robert Frost, Helen Keller, and Norman Rockwell. A friend of Eleanor and Franklin Roosevelt, she is still the only Vermonter to be president of the National Education Association.

In 1947 the Normal School became Castleton Teachers College. With increased enrollment from men, intercollegiate athletics began in the 1950s, and by the early-1960s Castleton was a national power in small college men's soccer.

In 1962 Castleton became a state college and a member of the newly formed Vermont State Colleges. Castleton grew dramatically during the decade of the Sixties in enrollment and in construction of buildings. A generation of faculty educated at major universities brought new perspectives to the classroom. Many academic programs were added to meet the changing needs of students and of society.

Beginning in 2002, under the leadership of President David Wolk, Castleton followed through on a ten-year master plan that resulted in the investment of over \$75 million in infrastructure improvements on campus, with every current building or facility having been renovated or newly constructed. The college also increased research opportunities for faculty and students, expanded opportunities in athletics and the arts, increased the number of international students, pursued a diversified portfolio of entrepreneurial ventures, and added a number of graduate programs.

Accordingly, after more than a decade of unprecedented growth and improvements, in 2015 the Vermont State Colleges Board of Trustees unanimously approved modernizing Castleton's name to Castleton University.

Today, Castleton University has a total enrollment of more than 2000 students. The university offers more than 30 undergraduate programs and 10 graduate programs. First-year students benefit from the First-Year Seminar program and Soundings, which offers the best in music, drama, dance, and contemporary thought for the campus. The university is deeply involved in the region through community service efforts and internships and through its education, social work, and nursing programs. Our staff and faculty are proud to work here, and our students and alumni are filled with that same Spartan Pride.

Although so much has changed in 228 years, Castleton retains its historic commitment to students and to Vermont.

## **The Castleton Plan**

The fall of 2013 saw the inauguration of The Castleton Plan, a strategic plan and blueprint developed collaboratively over the course of more than a year that envisioned the next ten years at Castleton. Highlighted by new and enhanced graduate programs, with a doctoral program under development, the plan also includes incremental enrollment growth, a focus on international enrollment, and increased opportunities for students in Rutland through entrepreneurial ventures such as the Castleton Downtown Gallery, the Castleton Polling Institute, and Castleton Downtown, which is home to the Center for Community Engagement, Center for Entrepreneurial Programs, and Center for Schools. All of these endeavors, along with the increased on-campus growth of conferences and events and the off-campus growth of the Spartan Arena and soon to be installed Spartan Dome, are entrepreneurial efforts that serve the community but also ease the burden of tuition dollars which make up 90 percent of the yearly operating budget.

The Plan builds on this reinvigoration of the past fourteen years, with well-planned incremental increases in undergraduate and graduate enrollment, staffing, programs and facilities, and with an eye toward a greater investment in and commitment to the Rutland area, including downtown Rutland as a destination for selected new programs for graduate students and upper level undergraduates that will further enhance the quality of a Castleton education while contributing to economic and community development in the greater Rutland region.

The Castleton Plan suggests a measured, incremental process of increased enrollment that seeks to raise admissions standards and increase retention rates while expanding our recruitment efforts into each of the fifty states and all countries where we can develop sound recruitment opportunities.

Additionally, the Plan goes on to say that Castleton will develop a number of exemplary graduate programs, including online and hybrid programs and courses, thereby establishing Castleton as a leader in graduate education and exerting a positive influence on the undergraduate experience.

Finally, the Plan calls for an increase in public and private funding. Moreover, there is a collective effort to restrain tuition increases, add scholarships, and focus on affordability.

This is a tremendously exciting time for Castleton University and our future. Our vision moving forward is a testament to the remarkable progress of recent years. We are proud of what we have accomplished together in a way that embraces our rich history, enhances our cherished traditions, and contributes to the cultural and economic well-being of Vermont and beyond.

## **NC-SARA**

Castleton University has been approved by the state of Vermont to participate in the National Council for State Authorization Reciprocity Agreements. NC-SARA is a voluntary, regional approach to state oversight of postsecondary distance education.

## **Admissions Policies**

## Application Procedures

Applications are considered for either the fall or spring semester. Castleton's policy of "rolling admissions" means that we process applications throughout the year until we determine that we have filled the class for each semester. We reserve the right to close admission once the class is filled. Castleton accepts applicants for admission who are best-suited in terms of character, ability and motivation to successfully meet the academic and social responsibilities of the university experience.

Qualified students are admitted without discrimination on the basis of race, color, creed, ancestry, ethnicity, national origin, place of birth, sex, sexual orientation, gender identity, disability, age, veteran status, marital status or any other status protected by law.

To be considered for admission it is required that a student successfully complete a college preparatory curriculum including:

- 4 years of English
- 3 years of Mathematics
- 2-3 years of Laboratory Science
- 3-4 years of Social Studies
- 2 years of Foreign Language (recommended but not required)

The University reserves the right to rescind an offer of admission based on changed circumstances or new information that comes to light such as a criminal conviction or act of misconduct (before admission, after admission but before enrollment or during any period of registration/orientation), falsification or misrepresentation during the application process or significantly substandard academic performance in the term or semester prior to enrollment.

## **New Student Application Procedures**

New students are those who have never attended a college or university. To be eligible to apply for admission to Castleton, a candidate must graduate from an accredited high school or possess a High School Equivalency Diploma. To be considered for admission, a candidate must submit a formal application along with the following:

1. An official high school transcript showing grades from the first quarter marking period of the senior year, or documentation of a High School Equivalency Diploma (GED).
2. SAT (Scholastic Aptitude Test) or ACT (American College Test) scores. Castleton requires the "optional" writing section of the ACT. Candidates who have been out of high school for more than three years may be exempt from submitting test scores.
3. A \$40 non-refundable application fee.
4. A written essay of at least 250 words.
5. One teacher recommendation.
6. One guidance counselor recommendation.

Applicants must request that a final official high school transcript showing date of graduation be sent to the Admissions Office to complete their file. Failure to submit proof of graduation may result in the withdrawal of the offer of admission.

## **Non-Traditional/Adult Student Application Procedures**

Castleton encourages the applications of non-traditional students. As defined by the university, non-traditional students are generally defined as older students who want to pursue their university education while continuing to work, while raising a family, or after many years away from formal education.

For purposes of admissions, applicants who have never attended any college or university and have been away from formal education for some time may be considered as non-traditional/ adult candidates. Such candidates must submit a formal application and the following materials:

1. An official high school transcript, or official scores from a high school equivalency exam (GED).
2. A \$40 non-refundable application fee.
3. A written essay of at least 250 words.
4. Two letters of recommendation from employers or people who are familiar with the applicant's motivation and work habits.

## **Transfer Student Application Procedures**

Transfer students are those candidates who have attended any college or university (excluding dual enrollment in high school) prior to applying for admission to Castleton (regardless of whether they completed a semester or not). To be considered for transfer admission to Castleton, a candidate must submit a formal application along with the following:

1. An official transcript from all previously attended colleges and universities (even from institutions at which no credits were earned).
2. An official high school transcript is required for those applicants who have earned 18 or fewer credit hours of college work.
3. SAT (Scholastic Aptitude Test) or ACT (American College Test) scores are required of candidates who have earned 18 or fewer credit hours of college work. Castleton requires the optional writing section of the ACT. Candidates who have been out of high school for more than three years may be exempt from submitting test scores.
4. A \$40 non-refundable application fee. (Students who have previously attended another Vermont State College are exempt from paying this fee.)
5. A written essay of at least 250 words.
6. One teacher or employer recommendation.

Transfer students can be considered for admission in either the fall or spring semesters.

### Accelerated Programs/Early College

By special arrangement with the Vermont Department of Education and the local school district, Castleton will consider admitting as first-year students, Vermont students who have completed the eleventh grade. Details concerning admission requirements for the Accelerated Program can be obtained by consulting the secondary school guidance counselor. Qualified out-of-state applicants who display exceptional ability and maturity will be considered for admission to Castleton upon completion of the third year of a secondary school program. Early admission applicants must have the consent and cooperation of secondary school officials, and they are required to appear for a personal interview.

### Advanced Placement

Many high schools offer their students the opportunity to take college-level courses, typically in the senior year. Two national testing programs (Advanced Placement/AP and College-Level Examination Program/CLEP) have been instituted to ascertain whether college-level learning has taken place in such courses. Each academic department at Castleton determines the scores on these two tests, which will justify the award of credit by our registrar. Castleton will consider, for advanced placement and credit, those entering first-year students who qualify through the CEEB Advanced Placement Examination. A grade of three (3) or higher must be achieved, but final recommendation for credit rests with the department chair concerned. Some Canadian students may be able to transfer Ontario Academic Credit (OAC) from their provincial examinations.

### Assessment of Prior Learning

Understanding that university-level skills and competencies may be achieved through direct experience on the job and in a variety of non-traditional settings, the Assessment of Prior Learning program provides a mechanism for the evaluation of such knowledge and the award of credit through the Vermont State Colleges. Further information is available in Vermont State College Office of External Programs' publications which may be obtained at the Office of Admissions or by contacting a branch of the Community College of Vermont.

#### College-Level Examination Program (CLEP)

Castleton considers for credit the scores received on the College Level Examination Program (CLEP). Six credits may be given for each area of the General Examination on which a student scores satisfactorily. Three credits may be given for subject examinations on which a satisfactory score is achieved. Information regarding which academic department will approve subject examinations and satisfactory score levels may be obtained from the Transfer Evaluator located in the Registrar's Office.

#### Conditional Admission

This status is given to students who demonstrate marginally adequate preparation for university work but who, with a concerted effort, may be successful at Castleton.

Conditionally admitted students, other than those transferring thirty or more credits to Castleton, will be required to take the math and writing assessments and, as appropriate, may be required to take the Academic Skills Course.

#### Deferred Admission

A newly admitted student who has not attended classes and who has not resided on campus for any part of the regular semester may request a deferral of his/her admission to the following semester or to the following year. A request for deferral must be made prior to the start of the semester for which the student was originally admitted. No requests for deferral will be considered 30 days after the start of the semester. The deferral will be given at the discretion of the director of admissions. If a deferral is granted, the non-refundable deposit, less charges incurred, will also be deferred. Under the agreement of the deferral, the student may not attend any other college or university during the deferment period.

After a newly admitted student has attended classes or has resided on campus, he/she may apply for a leave of absence from an academic dean. All rules with regard to refunds and leaves are in effect.

#### Deposits

To confirm an intended matriculation to the university, the accepted student is required to submit a non-refundable deposit of \$200 to the Admissions Office prior to May 1 for fall (December 1 for spring). After these dates, deposits will be accepted on a space-available basis. Deposits should be submitted as soon as the decision to attend Castleton has been made.

#### Dual Enrollment Program

Castleton University welcomes academically talented and self-motivated high school juniors and seniors who wish to take university courses during their final two years before graduation. To be accepted to the program the student must meet the following requirements:

1. Be a junior or senior enrolled full-time in a Vermont high school or in one of the high schools of eastern New York used by the university for student teaching placements. The program is also open to Vermont youth aged 16 and over who are enrolled in certified home school programs.

2. Submit a completed program application along with a letter of recommendation from a high school guidance counselor. Home-schooled students must provide two letters of recommendation, from other than family members, that can attest to the student's preparedness for university-level work. All letters must confirm that the student has the prerequisite knowledge, skills, and personal traits to assure success in course work at Castleton.

3. Schedule an interview with a member of the Admissions staff at Castleton University.

A decision regarding acceptance into the program will be made by the university Admissions staff based on the documentation provided by the student and the personal interview. All students deemed to have appropriate abilities and attributes will be accepted into the program. The Admissions staff will advise the student regarding course selection and will ultimately authorize the student's registration for courses.

The required documentation and request for an interview should be sent to the Admissions Office, Castleton University, Castleton, VT 05735. For information please call Admissions at 802-468-1213.

Typically, students in this program will be permitted to register only for lower division (1000- and 2000-level) courses. Especially well qualified students may be permitted to enroll in upper level courses, but requests to do so are clearly exceptional, require the instructor's approval, and will be handled on a case-by-case basis by an Associate Academic Dean. Registration is permitted on a space-available basis only on or after the following dates:

- For Fall 2014 semester - July 29, 2014
- For Spring 2015 semester - January 9, 2015
- For Summer 2015 semester - April 23, 2015

A student may take no more than two courses per semester at the published rate. A student may take a maximum of eight courses in this program. Vermont high school students may be eligible for a voucher to take one free course in their junior year and then again in their senior year.

Students accepted to the program will pay a reduced rate of \$696 per three-credit course plus any laboratory or studio fees. A student's continuing eligibility to participate in the program will be based in part on a review of past performance. Should the student have academic or personal difficulties that result in poor performance or otherwise negatively affect the academic environment of the university, acceptance into the program will be rescinded.

University credit will be awarded based on successful completion of the course(s). Program participants may not "audit" courses.

### International Baccalaureate

Castleton welcomes students who have completed International Baccalaureate exams. Credit will be awarded on a course-by-course basis for higher-level exams completed with a score of 5 or higher, with a maximum possible award of 24 credits.

### International Students

We welcome international students on our campus; however, before we can process an application for admission we must have assurance that the personal needs of that student will be met as well as the financial obligations to the institution of approximately \$30,000 a year.

- Students must provide a financial statement demonstrating their ability to finance their total cost of attendance. (all funds must be in U.S. dollars)
- All documents must be in English
- All foreign transcripts must be evaluated by an accredited service

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Incoming international students may click here to see 2016-2017 scholarships for international students.

New England Association of Schools and Colleges

Castleton University supports the efforts of secondary school officials and governing bodies to have their schools achieve regional accredited status to provide reliable assurance of the quality of the educational preparation of their applicants for admission.

New England Regional Student Program

Under the New England Board of Higher Education (NEBHE) agreement, a limited number of students from other New England states may enroll in certain programs at Castleton, as the complement to the Castleton program is not available in those students' home states. Students pay a special tuition rate of 150% of the current in-state tuition.

Interested applicants are encouraged to submit their admissions materials early in the senior year and are required to identify themselves clearly, on their application forms, as persons applying under the NEBHE Program.

To qualify for the 150% tuition rate under the NEBHE agreement, the student must demonstrate eligibility and specify the program prior to admission.

After having been officially notified of acceptance by the University, a student under the NEBHE agreement may thereafter change programs without losing initial status, provided the program is authorized under the NEBHE agreement and provided the college approves the change.

As participants in the NEBHE Program, students must indicate through their course registration each semester, that they are pursuing their initial program. If a change of major to another program covered by the NEBHE agreement for the student's state is planned, coverage will be continued and the tuition charge of 150% of in-state tuition will still be effective. Students who change their majors to those not covered by the NEBHE agreement for their states will be required to pay the out-of-state tuition rate.

*New England Regional Student Program for 2015 -2016:*

| <u>Undergraduate Major</u> | <u>Degree</u> | <u>Eligible N.E. States</u> |
|----------------------------|---------------|-----------------------------|
| Athletic Training          | B.S.          | RI                          |
| Spanish for Business       | B.A.          | CT, ME                      |

Non-Degree Seeking Students

Persons with adequate preparation for university-level work may be permitted to attend Castleton as Non-Degree Seeking (aka "Non-Matriculated") Students. The Registration Policy for Non-Matriculated Students is available at Financial & Registration Services or from the University Registrar.

Readmission to Castleton

Students applying for readmission to Castleton are required to submit a new application form and all credentials requested to complete the admission folder. The decision to readmit will normally be made by the director of admissions in consultation with an academic dean and the dean of students. Candidates for readmission may be required to complete additional course work before being evaluated.

Transfer Policies for Newly Admitted Students



# New Student Seminars

Transfer students with fewer than 12 credits are required to take a First-Year Seminar in their first semester and those with 12 or more credits are strongly encouraged to take a Transfer Seminar.

## Students transferring from outside the Vermont State College system

- Evaluation of Transfer Credit

Official transcripts of all previous college courses must be submitted in order to evaluate transfer credits. Credit may be transferred for courses completed at institutions accredited by a regional accrediting association or by an accrediting agency recognized by both the U.S. Department of Education and the Council for Higher Education Accreditation where the earned grade was "C-" or higher. Exceptions might occur if a student receives a grade below a "C-" and subsequently receives a higher grade for a more advanced course at the institution from which she/he transfers; depending on program requirements both courses could be accepted. Transfer credit is not allowed for work completed with a grade of "P" or its equivalent unless a grade of "C-" or better can be provided or unless a more advanced course in a sequence of interrelated courses has been passed with a "C-" or better in the institution from which the student transfers.

The Preliminary Transfer Evaluation is completed by the Registrar's Office and mailed to the student once the student has been accepted for admission. Students may be required during their first semester of attendance at Castleton to provide additional documentation to Academic Departments for courses counting towards the student's major.

Courses for which transfer credit is granted cannot be repeated for credit. A student who changes majors may find that additional courses, not originally accredited, may count toward the new degree program.

- Students transferring with an Associate's degree

Students graduating with an Associate's degree from an institution accredited by a regional accrediting association or by an accrediting agency recognized by both the U.S. Department of Education and the Council for Higher Education Accreditation with a minimum GPA of 2.00 on a 4.00 scale, will be granted, if admitted, transfer of credit for all academic work applicable to the admitted program up to 64 credits. These students will be exempt from First-Year Seminar and Soundings I (INT 1051).

- Students transferring with a Bachelor's degree

Students who enter Castleton with a previously earned Bachelor's degree from an institution accredited by a regional accrediting association or by an accrediting agency recognized by both the U.S. Department of Education and the Council for Higher Education Accreditation will be exempt from the University Writing Standard, First-Year Seminar, Information Literacy Standard, Oral Communication Standard, Quantitative Reasoning Standard, and Soundings (INT 1051, INT 1053, and INT 3054). Every attempt will be made to transfer in General Education requirements in appropriate categories. Please see Earning Additional Degrees for other policies regarding students pursuing a second degree.

## Students transferring from a Vermont State College

All courses taken within the Vermont State Colleges since summer 2002 are part of the VSC transcript and are not considered transfer credit; this coursework will automatically be listed on the Castleton transcript. All VSC courses since summer 2002 count in the determination of quality points and in the determination of the cumulative

GPA. Students may see how their VSC credits are counting towards their Castleton degree program by running a program evaluation in Web Services.

VSC transfer students with 12 or more completed credits will be exempt from First-Year Seminar (students who completed these college credits while still in high school may still be encouraged to take a First-Year Seminar.)

Students with 60 or more completed credits prior to matriculating at Castleton will be exempt from INT 1051 Soundings I, and will receive credits for completed General Education courses in comparable Frames of Reference categories.

Any VSC graduation standard (College Writing, Information Literacy, Oral Communication, or Quantitative Reasoning) previously met at another VSC institution will count at a similar level (Associate's or Bachelor's) at Castleton.

(The three exemptions listed above may require a manual override from the Registrar's Office.)

- Students with an Associate's degree from a Vermont State College

Students with a previous Associate's degree from a Vermont State College are exempt from or will receive credit for all General Education requirements at the Associate's level at Castleton including: the University Writing Standard, Computing Requirement, First-Year Seminar, Information Literacy Standard, Oral Communication Standard, Quantitative Reasoning Standard, Soundings I (INT1051), and the Frames of Reference.

Students pursuing a Bachelor's degree at Castleton University will need to complete additional Soundings courses (INT 1053 and INT 3054), the Literature Requirement (ENG 2260), an additional Writing Intensive course, and additional Frames of Reference courses.

- Students with a Bachelor's degree from a Vermont State College

Students with a previous Bachelor's degree from a Vermont State College are exempt from or will receive credit for all General Education requirements (the University Writing Standard, Computing Requirement, First-Year Seminar, Information Literacy Standard, Literature Requirement (ENG 2260), Oral Communication Standard, Quantitative Reasoning Standard, Soundings (INT1051, INT 1053, INT 3054), and the Frames of Reference.

#### Veteran Credit

A veteran may be allowed credit for courses or service schools as recommended by the American Council on Education. Active duty service personnel are advised to see their Education Officer about taking College Level Examination Program (CLEP) examinations.

## **Academic Policies**

It is important that students fully acquaint themselves with the various academic policies of Castleton University. A thorough knowledge will help students successfully complete their academic experience with minimum difficulty and confusion.

#### Academic Honesty

Castleton University is a learning institution committed to the highest standards of scholarly conduct. The students, faculty, and administration make up a scholarly community whose integrity and success necessarily stem from a mutually agreed upon code of academic standards and principles that promote trust and honesty and prohibit the

attempt to gain unfair academic advantage. Membership in the Castleton community means sharing responsibility for upholding and safeguarding these academic standards and principles. Any violation of academic honesty will be considered cheating and will be dealt with accordingly by the appropriate authorities.

**Procedures:** Castleton considers all cases of academic dishonesty serious and encourages all full- and part-time faculty to treat each case with the seriousness it deserves. The recommended course of action in those cases where academic dishonesty is suspected is listed below.

- A faculty member suspecting academic dishonesty should discuss the alleged infraction(s) with the student(s) involved and explain the grounds for concern.
- If after meeting with the student, the faculty member concludes that the university's academic honesty policy has been violated, the faculty member should notify the student in writing of the violation and the penalty that has been levied. Penalties for academic dishonesty levied by the instructor may range from failure on the assignment to failure for the course. (Although the faculty member has authority to issue failing grades without such notification, the establishment of a written record is the only acceptable means of determining whether a student is responsible for repeated misconduct.) In determining penalties, faculty may take into consideration whether or not a student either knowingly or unknowingly committed an infraction. University policy, however, makes *no distinction about whether or not plagiarism has occurred on the basis of a student's intention.*
- Instructors will notify the Dean of Students about all academic honesty infractions. Reports of academic dishonesty should be made using the "Academic Misconduct Referral Form," which can be downloaded from the university's web site.
- If a student feels that the instructor's allegations or penalties are erroneous, then she/he must arrange to meet with the instructor to discuss and attempt to resolve the matter prior to appealing a decision. If a student/instructor conference fails to achieve adequate resolution, any penalty levied by the instructor may be appealed in writing to the Academic Dean or his or her designee within seven days from the date of the instructor's written notice of penalty. Should the instructor fail to give written notice, the student may appeal within seven days of learning of the penalty. In all cases of appeal, the decision of the Academic Dean or designee is final.
- The Dean of Students may, at his or her discretion, levy additional penalties up to and including dismissal from the university for serious or repeated violations. In cases where the Dean of Students concludes that an additional penalty may be necessary, the student will be notified within fifteen days of the receipt of the instructor's notice of imposition of a penalty that a further sanction is being contemplated. If the severity of the offense warrants, the Dean of Students may lodge a complaint against the student in accordance with the Due Process procedures.

**Definitions of Infractions:** The following list is intended to illustrate the types of behaviors that are considered academically dishonest at Castleton. It is only a partial list; other behaviors may, as well, violate the basic principles of academic honesty.

- A. Plagiarizing in any form. Plagiarism is stealing. Castleton University defines plagiarism as the act of submitting someone else's work, words, or ideas (in part or in whole) as if they were one's own, without proper attribution of credit.
- Credit must be attributed to both print and online source materials, including books, periodicals, articles, video, music, and images. The Internet has become a powerful research tool, but students should note that its power also has a double effect: the Internet makes committing and detecting and proving plagiarism much easier.

Additionally, Castleton makes no distinction in the definition of plagiarism on the basis of a student's intent. Students are responsible for taking pains to familiarize themselves with the citation standards and practices in their respective disciplines and courses to avoid plagiarizing.

Plagiarism includes, but is not limited to the following:

- *using a source's exact words without putting those words in quotation marks-this is plagiarism whether or not there is a note attributing the material to a source;*

- *putting a source's exact words in quotes but failing to provide an endnote, footnote, parenthetical note, or other appropriate form of citation indicating the original source;*
- *paraphrasing the words of a source but failing to provide an endnote, footnote, parenthetical note, or other appropriate form of citation indicating the original source;*
- *splicing together exact phrasing and/or paraphrases from multiple sources but failing to give credit for each element borrowed ("patchwork" or "mosaic" plagiarism);*
- *copying and pasting information from a website without correctly citing the Internet source from which the material was taken. The Internet is not public domain;*
- *providing only a list of references without properly attributing specific credit for individual quotations or ideas in the body of the text;*
- *creating a paraphrase that does not substantially reword the original text-for example, leaving long phrases of the original wording, substituting synonyms for key words but not rephrasing the material, or simply rearranging the original words;*
- *receiving excessive critical input from others to the extent that the final text can no longer be viewed as the work primarily of the student submitting it.*

- B. Buying, copying/downloading from the Internet, or commissioning term papers, essays, or comparable documents and/or submitting the work of another (including the work of another student) as one's own.
- C. Submitting work that had previously been prepared for another course in fulfillment of the requirements of a subsequent course, except when the student has obtained the explicit prior permission of the current instructor to do so.
- D. Communicating during an examination session with the intent of supplying information to or receiving information from another student.
- E. Receiving aid in taking examinations through such means as crib sheets or supplementary notes (unless expressly permitted by the instructor); through looking at others' examinations and/or allowing others to look at yours; or through the use of electronic devices such as cell phones, calculators, portable hard drives, PDAs, mp3 players, etc.
- F. Soliciting, obtaining, or providing an examination or portions thereof either prior or subsequent to an examination session, except as authorized by the instructor.
- G. Substituting for another student or allowing a different individual to represent oneself in any context, including but not limited to class meetings, exams, and online discussions.
- H. Knowingly assisting any person committing an act of academic dishonesty.
- I. Altering, changing, or forging university academic records for either oneself or another.
- J. Infringing the rights of other students to fair and equal access to university library materials and other academic resources.
- K. Degrading, erasing, or in any way tampering with the computer assignments or computer files of others.
- L. Attempting to prevent other users from having access to the university's computers, computer terminals, or other resources, or degrading the performance of computer equipment.

Any student who is unsure whether a particular behavior is permissible under Castleton's academic honesty policy should consult either the instructor of the course for which the work is being done, the student's faculty advisor, or the Academic Dean.

#### Academic Honors

## **President's List**

Each semester, at the President's discretion, matriculated undergraduate students who have achieved a semester GPA of 4.0 may be placed on the President's List. In addition to meeting the GPA criterion, those appointed to the President's List must have completed at least 12 credit hours of graded courses and have no "I" (incomplete) or "F" or "NP" grades recorded at the close of the semester.

## **Dean's List**

Each semester, matriculated undergraduate students who have achieved a minimum semester GPA of 3.50 are placed on the Dean's List. In addition to meeting the GPA criterion, those appointed to the Dean's List must have completed at least 12 credit hours of graded courses and have no "I" (incomplete) or "F" or "NP" grades recorded at the close of the semester.

## Honor Societies

- Alpha Psi Omega (Theater)
- Iota, Iota, Iota (Women's Studies)
- Kappa Delta Pi (Education)
- Phi Alpha (Social Work)
- Phi Alpha Theta (History)
- Phi Eta Sigma (First-Year Students)
- Psi Chi (Psychology)
- Salute (Veterans)
- Sigma Beta Delta (Business)
- Sigma Delta Pi (Spanish)
- Sigma Zeta (Science and Math)

### Academic Status

## Class Level

- First Year: 0-29.9 credits
- Sophomore: 30-59.9 credits
- Junior: 60-89.9 credits
- Senior: 90 credits and above

## Good Academic Standing

Academic standing is based on the student's GPA, which is determined exclusively on the basis of grades achieved in courses taken at Castleton University prior to Summer 2002 or at any of the Vermont State Colleges starting in summer 2002, and on grades received in courses taken under a consortium or contractual agreement that are recorded on a student's Castleton transcript. The requirements change as students advance through their studies. The minimum cumulative GPA required for good standing depends on the cumulative total of "credits earned" or "GPA credits," whichever is higher. Each of these totals appears on the academic transcript that students may review online at any time.

The requirements for Good Academic Standing (as of summer 2014):

|                       |                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Less than 30 credits: | 1.75 cumulative GPA or higher                                                                                                                |
| 30-32 credits:        | 1.75 cumulative GPA or higher, and with a term GPA of 2.30 or higher on the immediately previous full-time semester (12 or more GPA credits) |
| More than 32 credits: | 2.00 cumulative GPA or higher                                                                                                                |

# Probation and Dismissal

A student whose cumulative GPA falls below the minimum level required for good standing may be placed on probation or may be dismissed.

**Probation** alerts students to the fact that their academic performance to date has been substandard, informs them that continued poor performance may result in their dismissal, but advises that with diligence and extra effort they can raise their GPA above the minimum level required to be in good academic standing. The Academic Dean may set other parameters regarding academic probation, academic warning, and extra-curricular eligibility.

The university may determine that **dismissal** is the necessary course of action when a student's academic performance falls substantially or chronically below the minimum accepted level. In cases of extreme academic insufficiency, dismissal may be in order even when the student had not previously been placed in a probationary status. A dismissed student may not enroll for any courses offered by Castleton until after at least one semester of the regular academic year has passed. At this or a later time, should a dismissed student seek to register for courses on a non-matriculated basis, she/he, with permission of the Academic Dean or the Dean of Students, may take not more than six credits in any one semester. Dismissed students may seek, but are not guaranteed, readmission to Castleton on a full-time, matriculated basis upon demonstrating their academic success in at least one six-credit, non-matriculated semester. The readmission process will therefore take no less than one academic year to complete. Decisions involving dismissal may be appealed to the appropriate dean. Students subject to academic dismissal or who take a leave of absence from Castleton while on probation will remain on probation upon their return.

Students should also be aware that departments may elect to establish minimum standards for academic performance in a particular degree that exceed the minimum level required more generally by the university. In such cases, students may be dismissed from their respective degree programs even when they are otherwise in good academic standing.

## Extra-curricular Eligibility

To be eligible for intercollegiate athletics, leadership positions in student organizations, and certain other prominent roles in Castleton activities, students must be in good academic standing, that is, they must achieve a GPA that meets or exceeds the minimum described in the previous section. In addition, student athletes are also governed by satisfactory academic progress standards and applicable policies of the NCAA. The Academic Dean may set other parameters regarding academic probation, academic warning, and extra-curricular eligibility.

## Ameliorating an Unsuccessful Semester

Castleton recognizes that occasionally a student who otherwise performs well academically may have, for a variety of reasons, one very poor semester. Amelioration may be only while a student is still an undergraduate at Castleton. The student must have completed two semesters of acceptable work before applying for it. As a way of providing students with an opportunity to remove the damaging effect of a poor semester from their transcripts, Castleton developed the policy on Amelioration described below.

1. The policy on Amelioration applies only to full-time, currently matriculated students who received D's or F's in at least 65 percent of their courses in one particular semester.
2. Students who wish to request an amelioration of an unsuccessful semester may not do so until one year has passed following the end of the semester in question.
3. Students seeking amelioration must do so by submitting a written request to the academic dean, which includes:
  - a. A specification of the semester for which amelioration is requested.

- b. A statement supporting the request. The statement should include an analysis of the reasons for the poor semester and documented references to an intervening successful effort in some aspect of life which may include, but is not limited to, academic pursuits, work experience, or military service.
4. Upon receiving the written request, the dean in consultation with appropriate other individuals will grant or deny it and communicate the decision to the student.
5. When Amelioration is granted, all grades of "C" and above and the credits derived from those grades (in the semester for which amelioration was granted) will remain on the record. All other grades and credits will be removed from the index and from graduation consideration, but they will remain on the record with appropriate notation.
6. Students may use this policy only once in their academic careers.

## Fresh Start

Students who completed course work at Castleton, which did not lead to the granting of a degree, after a five-year absence, have the option of having all the grades they previously earned at Castleton not calculated into their present grade point average. Returning students not wanting their previously earned grades calculated into their present GPA must complete a Fresh Start form available at Financial & Registration Services by the time they complete 12 credits. A "fresh start" requires the approval of the associate academic dean. Full-time students who want the effect of "Fresh Start" must complete the Fresh Start form by the subsequent semester. Students who do not complete a Fresh Start form in the allotted time will have their previous grades calculated into their new GPA. Regardless of whether or not grades are calculated into students' GPAs, their previously earned credits will be used for all completed course work at Castleton.

### Adding/Dropping Courses

If a student is receiving financial aid, adding or dropping courses may affect his/ her eligibility. The student should contact the Financial Aid Office to determine the impact of such a change.

#### **Adding Courses**

Students may add a class to their schedule only through the use of an ADD/DROP form available at Financial & Registration Services. Each course added requires the date and signature of the instructor or designee. Students are encouraged to obtain the instructor's and their advisor's signature early to avoid late fees. One copy of the form will be given to the student who should retain it to show that the add was properly completed.

Full semester courses may be added during the first two weeks of the semester. Less than full semester courses (session X or Y) may be added as late as one week after the beginning of the course. However, any request to add any course after the first two weeks of the new semester is subject to the approval of the course instructor and an associate academic dean and requires payment of a late add fee of \$24 per course. Students are strongly cautioned against anticipating approval for the late addition. Only in extraordinary circumstances will a late add be approved.

#### **Dropping Courses**

Students approved for online registration may drop courses online through the two week add/drop period. Students not approved for online registration must use an ADD/DROP form. One copy of the form will be given to the student who should retain it to show that the drop was properly completed.

Students may drop full semester courses (with the exception of Soundings I and II) without academic penalty during the first two weeks of the semester. Students may drop less than full semester courses (session X or Y) without academic penalty up to one week after the beginning of the course. Courses dropped after the "no academic penalty" date (up to 60%) will carry a grade of "W" on the transcript.

Students may drop full semester courses (with the exception of Soundings I and II) through the ninth week of the semester after payment of a \$24 fee per course. Students may drop less than full semester courses prior to the completion of 60% of the course upon payment of the same fee as for full semester courses. After the initial two-week add/drop period, there will be no billing adjustment for classes dropped. Please consult the semester Course Schedule on line for exact dates and the Expenses section of this catalog for financial policies.

A faculty member has the authority to drop a student from the class roster who does not attend any class meetings within one week of the start of the class unless 1) the student contacts the faculty member before or during this period, or 2) the student contacts an academic dean before or during this period, or 3) the student is enrolled in a course that meets only once a week, in which case the faculty member may drop the student from the class roster if the student fails to attend all meetings scheduled for the first two weeks of the semester.

Note: students who do not officially drop a course, but stop attending, will generally receive a grade of "F."

Students enrolled in courses at other VSC institutions will need to abide by their drop deadlines.

### Completion Requirements

To earn any degree from Castleton, a student must be formally admitted to the university and maintain appropriate continuous progress. A student who loses matriculated status must be readmitted to the university in order to resume studies toward a degree.

## **Associate's Degree**

To earn an Associate's degree, a student must be formally admitted to Castleton, complete the General Education requirements, satisfy specific degree program requirements, and earn a minimum of 64 credits of which at least 15 credits must be earned at Castleton. A minimum cumulative GPA of 2.0 is required for graduation.

While Castleton's Associate's degree programs are normally completed in two years, Castleton does not guarantee that all students will necessarily be able to complete their chosen degree program in this time frame.

## **Bachelor's Degree**

To earn a Bachelor's degree, a student must be formally admitted to Castleton, complete the General Education requirements, satisfy specific degree program requirements, and earn a minimum of 122 credits of which at least 30 credits, including substantial advanced work in the major or concentration, must be earned at Castleton. A minimum cumulative GPA of 2.0 is required for graduation. (Some programs, including those leading to licensure in teaching, require a higher GPA.)

While Castleton's Bachelor's degree programs are normally completed in four years, Castleton does not guarantee that all students will necessarily be able to complete their chosen degree program in this time frame.

## **Declaration of Major**

In deciding on a major academic field, the student should consult an academic advisor. Some programs require departmental acceptance; if so, students should complete the Academic Program Approval form for their program as soon as they are qualified to do so.

If a student changes their major and/or advisor, they must file a CAP form immediately at Financial & Registration Services.



# Application for Degree

The final responsibility for fulfilling the requirements for any degree granted by Castleton rests with the student. To assist students and their advisors, the Registrar's Office will prepare a degree audit for each student during the semester immediately after he/she submits an Application for Degree. Students should review their degree audits with their academic advisors and report any discrepancies to the Registrar's Office.

- For May graduates, the Application for Degree must be submitted by May 1 of the year previous to the intended graduation date.
- For August graduates, the Application for Degree must be submitted by June 1 of the year previous to the intended graduation date.
- For December graduates, the Application for Degree must be submitted by December 1 of the year previous to the intended graduation date.
- For Graduate students, the Application for Degree must be submitted the semester previous to the intended graduation date.

## Graduation Honors

Bachelor's and Associate's degree graduates who have attained high academic standing receive degrees with one of three distinctions. The particular distinction is based on the student's complete scholastic record at Castleton and is determined as follows:

- Cumulative GPA of 3.9 or higher: summa cum laude
- Cumulative GPA of 3.7 to 3.89: magna cum laude
- Cumulative GPA of 3.5 to 3.69: cum laude

Of the total credits required for graduation, at least 30 graded credits for a two-year degree and 60 graded credits for a four-year degree must be earned at the Vermont State Colleges.

For the May graduation ceremonies, Honors are tentative, and are recognized on the basis of the number of credits completed and the GPA earned as of the end of the previous fall semester. Officially, and for the record on a student's transcript, Honors are determined on the basis of total number of undergraduate credits taken at Castleton and final GPA.

## Receiving the Diploma

Diplomas are awarded shortly after the May commencement ceremonies. To receive a diploma a student must meet the following requirements:

1. Be an admitted student with appropriate continuous progress
2. Fulfill all degree requirements
3. File an Application for Degree form by the stated deadline
4. Satisfy all financial and administrative obligations to Castleton.

All students are expected to participate in the commencement ceremonies. Academic regalia are required for participation and should be obtained through the Castleton Store. Orders must be placed before December 15 to ensure timely delivery.

Earning Additional Degrees

The university has adopted the following policies in order to recognize certain students' additional academic accomplishments.

A student who finds it advantageous to earn both an Associate's degree and a Bachelor's degree must register for the additional courses and complete a second CAP form. The student must meet the criteria for acceptance into the second program and meet the degree requirements of both programs. Two diplomas will be awarded with both programs recognized on the permanent record. Two Applications for Degree must be filed. The degrees can be received during the same or different years. Students may have an informal "double major" by taking the courses required for a second program. The fact that a student has met the requirements for two majors will be recognized only when a properly completed CAP has been filed. Two Bachelor's degrees will not be awarded at the same commencement but recognition that the student has met the requirements of the second program will be made on the permanent record. Students with any Bachelor's degree may earn a second Bachelor's degree in a different discipline/major (e.g. Bachelor of Arts in Psychology and Bachelor of Arts in English). A student with any Bachelor's degree from another institution accredited by a regional accrediting association or by an accrediting agency recognized by both the U.S. Department of Education and the Council for Higher Education Accreditation may earn another Bachelor's degree from Castleton. Students in this category will be considered undergraduates even though they hold a Bachelor's degree. The second degree may be obtained through the following procedure Apply for admission or readmission to Castleton in the usual manner. Immediately after admission or readmission, declare an appropriate major and be accepted by completing a CAP form. Meet all requirements listed in the catalog in effect at the time of acceptance into the new program, including the General Education requirements for a degree program. (See "Transfer Policies for Newly Admitted Students" for information about Gen Ed exemptions for students with a previously-earned degree.) Earn a minimum of 30 additional credit hours at Castleton. Complete an Application for Degree form and pay the graduation fee.

Students receiving two degrees at separate graduation ceremonies will be charged the full graduation fee each time.

#### Enrollment Policies

## **Matriculation**

A matriculated undergraduate or graduate student is one who has applied to Castleton, been officially accepted, and is either currently enrolled or on an official leave of absence.

Only matriculated students-those formally admitted to Castleton-will be considered candidates for Castleton degrees. Most classes are available to nonmatriculated students on a space-available basis, although some may require that students get permission from the instructor before enrolling. (Admission to a degree program is not a prerequisite for participation in classes, although first preference for access to classes must necessarily be made for matriculated degree students.)

## **Full-time and Part-time Status**

Students admitted to Castleton may elect to attend either full-time or part-time. For undergraduate students, full-time status is 12 or more credits per semester. For each credit above 18 in a given semester, a student will be charged for overload credits at the per credit rate, based on program. Half-time status is from 6-8.9 credits per semester, while less than 6 credits is less than half-time status. When registering part-time, students are billed on a per credit basis, with other fees as applicable.

Most of the two-year and four-year undergraduate degree requirements can be met through enrollment as a part-time student. However, it is not possible to complete all the requirements for a degree by attending only evening classes.

Because eligibility for financial aid may be affected by changes in the mode of attendance, students should consult with the Financial Aid Office to determine the impact of such changes. Students' mode of attendance can also affect their eligibility for insurance coverage if they are covered as dependents on family policies. Students who are listed as

dependents on a parent's federal income tax return may no longer qualify as dependents if they are not registered as full-time students within a given calendar year. Students may change their status from full-time to part-time and vice versa. Full-time status is required to reside on campus. Others affected by a change from full-time to part-time status are athletes and those with veteran's benefits.

International students must be enrolled full-time (12 or more credits) to meet the requirements of the F-1 visa. Because of the complexity of the F-1 visa regulations, international students should consult with the International Student Office before making any changes in enrollment status or mode of attendance.

## Registration

All students are required to register during the times published by the registrar. Registration for **new students** usually occurs during June and July (for fall semester) and January (for spring semester). During these sessions, students take academic skills tests, receive important information about the curriculum and course selection, and meet with an advisor to select their courses. **Returning students** register during the academic year, typically for the spring semester in November and for the fall semester in April. Students should meet with their advisor about two weeks prior to the November and April Registration dates to plan their schedules and obtain their advisor's signature.

If there is any problem with an individual student schedule, this should be brought to the attention of Financial & Registration Services immediately. In all cases, this must be done before the end of the first two weeks of classes.

Registration materials will be sent to students' campus email address. Interested persons can obtain registration information by writing, calling, or stopping by in person at Financial & Registration Services in Woodruff Hall. A link to the Castleton course schedule can also be found on the Castleton home page.

## Course Prerequisites/Consent of Instructor

It is the student's responsibility to ensure that he/she meets the prerequisite(s) before enrolling in any course. The instructor or department chair has the authority to waive the prerequisite(s) and must sign the Registration or ADD/DROP form.

## Undergraduates Enrolling in Graduate Courses

### *Taking courses for undergraduate credit*

An undergraduate student who has achieved senior standing and a cumulative grade-point average of 3.0 or higher may enroll in graduate-level courses for undergraduate credit with the approval of the instructor, the department chair, and the academic dean. Such courses may not be subsequently accepted for graduate credit at Castleton University.

### *Taking courses for graduate credit*

An undergraduate student who has achieved senior standing (90 or more credits earned) and has a cumulative grade-point average of 3.0 or higher may enroll in graduate-level courses for graduate credit with the approval of the instructor, the department chair, and the academic dean. Such students must pay additional tuition to cover the difference between undergraduate and graduate rates, should the graduate rate be higher, and may not enroll in a combined total of more than fifteen credits. Completion of graduate courses as an undergraduate does not guarantee admission into a graduate program at Castleton.

Graduate courses taken for graduate credit by undergraduate students will be recorded on a post-baccalaureate transcript. Should such courses meet requirements for a Castleton graduate program into which a student is subsequently admitted, these courses will be accepted toward completion of the program.

## **Exemption and Substitution**

A student wishing to be exempted from certain academic requirements, or to make course substitutions within an academic program, must complete an Exemption/Substitution of Curriculum Requirement Form available at Financial & Registration Services. Students should not presume approval for exemptions or substitutions. These are granted only in unique circumstances. Students are encouraged to seek substitution approval, from the relevant department chair, prior to taking a course for that purpose.

## **Transfer Credit for Current Students**

### **Prior Approval of Course Transfer**

Students enrolled at Castleton may take courses at other institutions accredited by a regional accrediting association or by an accrediting agency recognized by both the U.S. Department of Education and the Council for Higher Education Accreditation and transfer them to Castleton by completing the appropriate approval form available from Financial & Registration Services. Credits earned within the Vermont State Colleges are not considered transfer credit.

### **Granting Transfer Credits**

Except under the terms of consortium agreements or contractual agreements (outlined below), only courses in which a grade of "C-" or better is earned will be accepted for transfer credit when the registrar receives an official transcript from the institution at which the courses were taken. Approval must be obtained prior to the beginning of the course. Grades earned at other institutions will not be included in the calculation of the student's GPA. Students who do not follow the "prior approval" process may discover that the course they took is not applicable to their Castleton degree.

Under certain circumstances students may qualify to take course work at another institution through what is called a consortium agreement or a contractual agreement. In these cases, the other provisions pertaining to prior approval of courses for transfer apply fully; in addition, these students may be eligible for full or partial financial aid to cover course work taken at the other institution. Students should speak with staff of the Financial Aid Office to learn about policies and procedures regarding consortium and contractual agreements. When a student does pursue course work under such an approved agreement, all course work taken under the agreement shall transfer back to Castleton and be recorded on the Castleton transcript. In such cases, credits as well as grades will be transferred. This means that all grades earned through course work at another institution under a consortium or contractual agreement will be calculated as a part of the Castleton grade point average. Students completing a semester of study abroad as part of the Spanish major may elect to transfer in courses as pass/no pass.

## **Enrollment Certification for Veterans and Military Dependents**

Veterans, active duty military personnel, and military or veteran's dependents who qualify for educational benefits should contact the Veteran's Certification Officer in the Registrar's Office as soon as possible after deciding to enroll at Castleton.

Other information regarding Veterans services at Castleton may be found at [www.castleton.edu/veterans/](http://www.castleton.edu/veterans/)

[Grading Policies](#)

## **Grading Criteria**

Grades are indicated by letters with a designated "quality point" value assigned to each as follows:

Grade = Point Value A+ = 4.0 A = 4.0 A- = 3.7 B+ = 3.3 B = 3.0 B- = 2.7 C+ = 2.3 C = 2.0 C- = 1.7 D+ = 1.3 D = 1.0 D- = 0.7 F = 0.0

A student's semester grade point average (GPA) can be calculated by assigning a numerical value to the grade, multiplying that value by the number of credits taken for that course, and dividing the total from all the courses by the total credits attempted (pass/no pass and incomplete courses are excluded.) For example, B+ = 3.3 x 3 credits = 9.9, B- = 2.7 x 2 credits = 5.4.  $9.9 + 5.4 = 15.3 \div 5 \text{ credits} = 3.06$  (GPA).

Mid-semester grades or grade "indicators" may be issued after the mid-semester point, and before the deadline to drop a class with a late drop fee. Mid-semester grades are not permanently recorded but can be used as a basis for guidance and developmental work. The grades listed above may be used to indicate the progress of the student at mid-semester, or one of the following indicators may be used:

S = Satisfactory Progress NI = Needs Improvement U = Unsatisfactory Progress SI = See Instructor

Final grade reports are available online following the end of the semester. Final grades for each semester are placed on an academic transcript and become the official record of a student's work at Castleton. Courses taken at other VSC institutions (beginning with summer 2002) will appear on Castleton transcripts and grade reports and will be calculated into credit line averages and summaries. Students can access their grades online through Web Services.

The following symbols are also used on either mid-semester or final grade reports but carry no point value and are not considered in calculating the semester or the cumulative GPA:

AU- given when a student is permitted to attend class for audit purposes only.

W- given when a student has been permitted to withdraw from a course after the two week "drop/add" period has passed, and prior to the 60% point in the semester.

I-Incomplete applies to work of acceptable quality in a course when the full requirements have not been completed because of illness or other serious reasons. It is never applied to failing work and should never be assigned unless a specific agreement to do so has been reached, between instructor and student, prior to the end of the semester. Students should note that failing to show up for a final exam or neglecting to turn in a final term paper on time does not justify the expectation of an Incomplete. An Incomplete should be resolved by completing the outstanding work. The instructor issuing the Incomplete, in consultation with the student, shall specify the length of time, not exceeding the end of the seventh week of the following semester, for which the Incomplete will stand. Instructors have the option of assigning a default grade other than "F" if the student does not complete the outstanding work. After the seventh week, if the instructor has not changed the grade, Incompletes are automatically changed to "F" or the default grade by the Registrar unless an academic dean formally has approved a later deadline for course completion. The grade of "I" will not be used in calculating the GPA. It is the student's responsibility to see that replacement grades are reported to the Registrar prior to the deadline date.

NG-used to indicate that is not possible to assign a grade at that time (not used as a final grade.)

NP-used to signify that a student has failed an "ungraded" course. No course credit will be given.

P-used to signify that a student has passed an "ungraded" course. It is assigned for any work that in the letter grade system would give course credit.

TR-used to signify credit granted for a transfer course.

CR-used to signify credit granted on the basis of non-course work such as CLEP examinations, lifetime experience portfolios, AP courses, and military credit.

## Guidelines for Evaluation\*

- A
  - Excellent mastery of course material
  - Student performance indicates a very high degree of originality, creativity, or both
  - Excellent performance in analysis, synthesis, and critical expression
  - Student works independently with unusual effectiveness
- B
  - Good mastery of course material
  - Student performance demonstrates a high degree of originality, creativity, or both
  - Good performance in analysis, synthesis, and critical expression, oral or written
  - Student works well independently
- C
  - Acceptable mastery of course material
  - Student demonstrates some degree of originality, creativity, or both
  - Acceptable performance in analysis, synthesis, and critical expression, oral or written
  - Student works independently at an acceptable level
- D
  - Deficient in mastery of course material
  - Originality, creativity, or both not apparent in student performance
  - Deficient performance in analysis, synthesis, and critical expression, oral or written
  - Ability to work independently deficient
- F
  - Serious deficiency in mastery of course material
  - Originality, creativity, or both clearly lacking
  - Seriously deficient performance in analysis, synthesis, and critical expressions oral or written
  - Cannot work independently
  - Failure to submit "I" work by deadline

\*From the 1974 *Dartmouth College Catalog*, p. 48. Reprinted by permission.

NOTE: Students should also refer to criteria established by faculty in the syllabus for each course. Such criteria may include standards for attendance and participation.

## Pass/No Pass Courses

Departments may designate certain courses as ones that may be taken on a pass/no pass basis. An instructor, with the consent of the department chair, may designate a course as being (a) graded only, (b) pass/no pass only, (c) student option to be taken either on a regular graded basis or as a pass/no pass course. A regular grade will be assigned to all courses when students do not make a selection, unless a course requires a particular option.

The purpose of this option is to encourage students to explore stimulating or intellectually challenging courses that they might otherwise bypass. The option provides latitude for such exploration without the penalty of a lowered GPA if performance is below normal.

During a four-year academic program, a student may take a maximum of 24 credits on a pass/no pass basis, provided this intention is indicated at registration. Students in two-year programs are limited to 12 credits on a pass/no pass basis.

Courses taken on a pass/no pass basis count as hours toward graduation but are not calculated in the student's quality-point average.

Changes in the grade option may be made only during the add period. Note: Some institutions do not award transfer credit for courses taken pass/no pass.

## Audited Courses

Courses in which space is available may be audited by students and community members who do not wish to receive credit. Those auditing a course are not required to take examinations or prepare assignments. In place of the grade, transcripts will show "AU." So that those wishing to take courses for credit may be given priority, anyone who wishes to audit courses will be permitted to register only during the add period at the beginning of the semester.

To register for an audited course:

-Castleton students must indicate their intention to audit a course on their registration card or an ADD/DROP form. Students are charged for audited courses at half the rate that applies to courses taken for credit. Lab fees, if applicable, will be charged.

-Community members should print out a Non-matriculated Student Registration Form or pick up a form at Financial & Registration Services in Woodruff Hall. Take the form to the first class meeting, obtain the instructor's signature, and return the form to Financial & Registration Services. Community members are charged for audited courses at half the rate that applies to courses taken for credit. Lab fees, if applicable, will be charged.

-Community members aged 65 years or older may audit one CU course per semester free of charge.

## Final Examinations

Final examinations are held in all courses at the close of each semester unless other arrangements have been made and approved by both the department chair and the academic dean. When a change for the final examination has been approved, the instructor is generally expected to hold a class meeting during the final examination week for alternate academic pursuits, such as reports or the presentation of final projects.

For the dates of final examination periods, see the university calendar. Examination schedules are published on the Castleton web site and will be announced in class. Examinations or quizzes missed during the semester may be rescheduled at the discretion of the instructor.

## Repeating a Course for Grade Improvement

Students may repeat a course for an improved grade by registering for the course again. The grade received for the repeated course will replace the earlier grade in calculating the GPA; the old grade will remain on the permanent record with a notation. A course previously taken for pass/no pass and failed may be retaken for either pass/no pass or a grade if it is a course that may be graded. A course previously taken for a grade may be repeated for a grade only; it may not be taken pass/no pass. Students should note that if they repeat courses they have already passed, they risk losing credit for any course they fail on their second attempt.

Unless a student procures the instructor's permission, he/she cannot repeat a course more than once (unless the Catalog states that the course is repeatable for credit).

With the exception of courses specifically designated repeatable, credits for the course taken more than once are only counted once.

A course may not be repeated after a degree has been granted on the basis of the successful completion of the course.

## Grade Change

Where it is justifiable and necessary, the faculty may change previously assigned grades by filing a Change of Grade form at Financial & Registration Services. For other than incomplete grades, this form will be forwarded by Financial & Registration Services to an Academic Dean for approval or disapproval.

## Grade Appeals

Course grades assigned by instructors are normally final. However, a student who believes a serious grading error has occurred has several options. A student with a complaint about a grade should first speak with the instructor and explain why the student believes an adjustment is in order. If the student is not satisfied with the instructor's response, the student may speak with the chairperson of the department that offered the course, explain his/her point of view on the matter, and ask that the chairperson intervene on the student's behalf. Any student who continues to believe that a serious grading mistake remains uncorrected after these procedures has the right to appeal to the Academic Dean. Students must make such appeals in writing and explain why they believe they earned a grade higher than the one they were awarded. They should also include any evidence they have that supports their position. Absent clear and fully substantiated evidence of error or prejudice, the Academic Dean will not overturn the decision of a faculty member in regard to the assignment of grades.

### Student Records Review & Release (FERPA)

In conformance with the Family Educational Rights and Privacy Act of 1974, as amended, Castleton University provides students the right to inspect and review their educational records and to challenge the contents of these records to ensure that such records are not inaccurate, misleading, or in violation of the student's privacy or other rights.

In addition, Castleton will not release personally identifiable records of students to any individual agency or organization without the prior written consent of the student, except as provided by the law. The university has a policy of disclosing educational records to Castleton and VSC officials with a legitimate educational interest without prior consent. The VSC has defined directory information as the following: name, home and university address, telephone listing, email address, date of birth, major, enrollment status (full-time or part-time), enrollment level (undergraduate or graduate), dates of attendance, degrees and awards received, weight and height of athletic team members, photographs, most recent and previous educational institutions attended, and participation in officially recognized sports and activities. Castleton will maintain this information and it will be available, at the discretion of University officials, unless the student notifies the University in writing that none of the directory information should be released. Students who wish to restrict access to directory information may do so by completing a Request to Withhold Directory Information form at the Registrar's office. Upon receipt of this form, the VSC shall release no directory information to any third party without prior student consent except as may be otherwise permitted by law.

Castleton University may forward education records to other agencies or institutions that have requested the records and in which the student seeks or intends to enroll or is already enrolled so long as the disclosure is for purposes related to the student's enrollment or transfer or to the student's dual enrollment.

A complete statement of Castleton policy regarding the Family Educational Rights and Privacy Act is available from the Registrar or on-line at [http://www.castleton.edu/servicecenter/ferpa\\_summary.pdf](http://www.castleton.edu/servicecenter/ferpa_summary.pdf)

### Withdrawing from the University

Students are expected to be enrolled for one or more courses, or on an official leave of absence, every academic semester from the time of matriculation to the completing of degree requirements. Students who leave without taking an official leave of absence may need to reapply through Admissions and complete the degree requirements found in the Catalog at the time of readmission. In some cases, students may petition their department chair and the academic dean to be readmitted under previously effective degree program requirements.



# Leave of Absence

Any student may request a Leave of Absence prior to the start of classes for one or two consecutive semesters. In special circumstances the Leave of Absence may be extended beyond the approved period; an academic dean must approve the extension.

To request a Leave of Absence, students should complete an interview at the Associate Academic Dean's Office in Woodruff Hall and then complete a Student Exit Information Form and Student Exit Survey. The leave is not official until the Student Exit Information Form and Student Exit Survey are received and the Academic Dean issues written approval.

Students in the Nursing program who take a Leave of Absence will have to reapply to the Nursing Department.

For information on refunds see "Refunds for Resignation or Leave of Absence" under Tuition, Fees, & Financial Aid.

A student approved for a Leave of Absence is considered no longer enrolled for federal financial aid purposes. Financial aid recipients considering taking a Leave of Absence should contact the Financial Aid Office to determine the impact of such action on their eligibility for financial aid. See "Repayment of Financial Aid" under Tuition, Fees, & Financial Aid.

# Resignation

A student who resigns from the university is required to complete a Student Exit Information Form and Student Exit Survey in the Associate Academic Dean's Office in Woodruff Hall. No resignation is official until the Student Exit Information Form and Student Exit Survey are received and acknowledged.

Grades of "W" will be issued for course withdrawals resulting from resignations received during the first nine weeks of the semester. Resignations after the first nine weeks will normally result in the assignment of the earned grades. Students forced to resign due to circumstances beyond their control may petition the Academic Dean for an exception to this policy. Ceasing to attend classes does not constitute the dropping of classes or resignation from Castleton.

All students considering resigning must meet with Financial & Registration Services to determine the impact on their student tuition account. Once 60% of the semester has passed, there will be no billing adjustments.

Resident students must also notify their Residence Director of their intention to leave the university.

The university, with proper documentation, reserves the right to administratively withdraw a student from class and end their program. When a student's physical or mental condition requires services beyond the reasonable scope of the university's capabilities, or when a student's physical condition is deemed by the Dean of Students to present a serious threat to the welfare of the student and/or members of the university community, the student may be required to withdraw, pending resolution of his or her condition. The Dean of Students will act on the basis of reliable information obtained from appropriate professional services.

# Academic Status of Returning Castleton Students

Students returning from a **Leave of Absence** retain their academic standing and may continue their education where they left off if they return to Castleton within the terms of the official Leave of Absence. The university will make reasonable efforts to accommodate students in programs that have quotas, are being phased out, or have been dropped from the curriculum. Students on extended leave may encounter difficulty when program course changes have been made. The student retains the right to use either the degree requirements in the catalog in effect at the time of admission or the degree requirements of any other catalog published during the period of active enrollment.

Students who **resign, withdraw, or are dismissed** from Castleton lose their academic status in any program for which they might have been previously accepted. Upon readmission, the student must again declare a major by filing a CAP form. Where program approval is required, the student must apply for program acceptance again. The student must then fulfill the degree requirements either of the catalog in effect at the time of readmission or of a subsequent catalog. Readmitted students are responsible for meeting degree requirements in effect at the time of their readmission. If they wish to be permitted to meet requirements in effect for the program in which they were originally enrolled, they must petition their department chair and the academic dean.

A dismissed student returning to Castleton as a result of a favorable appeal must meet with an advisor and file all necessary paperwork. The Academic Dean, however, may, in consultation with the appropriate department chair, agree in writing that the student can retain the academic status in effect at the time of dismissal and can retain his/her right to use the degree requirements in the catalog under which he/she was admitted (or any subsequent catalog).

### Workload

The University expects students to work at least two hours a week outside of class for each academic credit they receive. (Typically, therefore, students perform six hours of homework per week for a normal 3-credit course.)

## Academic Support

Help is always available for students who desire assistance in developing effective study skills or competencies in reading and/or basic mathematics. In addition, students experiencing academic problems in virtually any course can obtain free tutorial help. For information on special courses, support services, and tutoring, students may contact the Castleton Academic Support Center, their academic advisor, or an academic dean. These and other resources are described below.

- Academic Advising
- Academic Support Center
- Calvin Coolidge Library
- Information Technology Services
- New Student Assessment and Placement
- Non-Traditional Student and Commuter Student Support
- Pre-professional Advising
- Testing Services

### Academic Advising

The Academic Dean's office assigns students a faculty advisor prior to the start of their first semester at Castleton. First-year seminar instructors advise all students who are enrolled in the first-year seminar. The primary role of the advisor is to assist students in program planning and course selection. Students must see their advisors before registration each semester to obtain approval of their course schedule. Students with two majors will be assigned an advisor for each and will need each advisor's approval prior to registration.

Students are encouraged to meet with their advisors frequently, not only for help in designing their degree programs, but also for consultation on academic matters and career goals. Advisors can also provide valuable suggestions on how to make the most, intellectually and educationally, of a student's Castleton years. While students should take advantage of the "drop-in" office hours that faculty maintain and post, typically on their office doors, it is prudent to schedule, in advance, periodic appointments with the advisor for thoughtful and thorough planning. Students may change advisors by completing a Change of Advisor form, which can be obtained at Financial & Registration Services.

Finally, while Castleton endeavors to make high quality academic advising available to students, the primary and ultimate responsibility for meeting degree and program requirements rests with the individual student.

### Academic Support Center

The staff of the Academic Support Center collaborates with Castleton students to help them achieve their academic, personal, and career potential. To this end, we offer academic counseling, tutoring, math clinics, writing clinics, advising, services for students with disabilities, assistance with graduation standards, financial literacy education, leadership development, graduate school admissions support, and summer programs. The staff adopts a holistic view of each student and takes pride in our proactive approach to support students in meeting their goals.

Students visit the Academic Support Center for assistance choosing an academic major, assessing their learning style, implementing study skills strategies, preparing for the graduation standards, and selecting courses. Emphasis is often placed on time management, overcoming test anxiety, and understanding the financial aid process. Academic Support offers walk-in Writing and Math clinics Monday through Friday with both daytime and evening hours, and individual or small group tutoring is available for most courses offered at Castleton.

All returning, new, and prospective students and their families are encouraged to explore available program services, as well as discuss any individual academic or personal concerns with a member of the Academic Support Staff.

In addition, the learning specialist offers services for students with disabilities, including: providing individual and small group academic support and counseling, working with faculty and staff to arrange appropriate accommodations and the use of auxiliary aids, and reviewing student documentation for eligibility.

The Academic Support Center is funded in large part by a TRIO grant from the U.S. Department of Education. Grant funds are used to improve college success for students who are the first in their family to go to college, students whose family income level is low to moderate, and/or students who have a disability. TRIO-eligible students qualify for additional services including: TRIO grants, financial literacy, graduate school support, and our Summer Transition Program.

The Academic Support Center is open from 8 a.m. to 4:30 p.m. Monday through Friday, with evening hours until 9 p.m. when classes are in session. All services are offered free of charge. Other meeting times, either in person or by phone, are available when arranged in advance. The Academic Support Center is in Babcock Hall: (802) 468-1347.

### Calvin Coolidge Library

The library is central to the intellectual and cultural life of the University. It provides information and services to the academic community in support of teaching and research. The collection contains over 750,000 items in a variety of formats. Library electronic systems take advantage of full internet access and a wireless network to provide researchers with opportunities to use a rapidly expanding variety of resources. For material not held in the Castleton Library, interlibrary loan service is generally fast and efficient. Librarians regularly offer instruction in research methods and tools in introductory and upper-level courses.

Castleton is a member of several regional and national library networks. The library has an integrated online system that is shared with the other four Vermont State Colleges. The library home page ([www.castleton.edu/library](http://www.castleton.edu/library)) is the gateway to most library services and collections, including a number of databases that include full text of articles and books.

Students have access to a variety of media, including streaming video and DVDs that can be checked out or watched in individual viewing carrels or group study rooms in the library.

The present library building was constructed in 1965 with a major addition doubling its size in 1979. Approximately 260 readers can be accommodated in individual or group seating, carrels and conference areas. The library also houses the Student Gallery and Lounge, the Vermont Room and the University Archives.

### Information Technology Services

## **Lab Computers and Software**

There are approximately 250 computers on campus for student use. The largest general access lab, the Academic Computing Center (ACC), is overseen by IT Services. There are also a dozen smaller labs managed by individual academic departments. A wide variety of software is available.

## **Academic Computing Center - ACC**

The ACC, located in the Stafford Academic Center, is open to students and the Castleton community approximately 90 hours per week during the regular school year. It is equipped with 38 Windows computers and 15 Macintosh computers running a variety of software. The ACC is also adjacent to two teaching labs - one Windows and one Macintosh - each containing 21 computers. These are open to student use when not in use by classes. Available peripherals include high speed laser printers and scanners. The ACC is managed and maintained by a student staff under the guidance of IT Services.

## **Other Academic Labs**

- Business Administration
- Chemistry
- Communication
- Library
- Modern Foreign Languages
- Music
- Natural Science
- Nursing
- Physics
- Psychology
- HGEP & Sociology/Social Work/Criminal Justice

## **Internet Access and Email**

Access to the Internet is available in all labs, classrooms, and residence hall rooms. Wireless access is available in all buildings. Accounts to access the portal and Web Services are created when students apply to Castleton. Students are given access to Castleton email shortly after they register.

### New Student Assessment and Placement

All new first-year students receive English and math placement recommendations as part of the admissions and registration process. Placement recommendations have been developed and are continuously refined by the English and Mathematics departments to ensure good alignment between course expectations and students' academic skill levels. Placement recommendations are based on students' high school GPA, SAT or ACT scores, and, in circumstances where these records may not provide enough clarity about a student's true skills, assessments are given during the first morning of summer registration.

-In English, a student with mid-range to lower SAT scores will take the Writeplacer essay; the results may dictate that the student enroll in and pass both ENG 0040 and ENG 1010.

-In mathematics, a student with either very high or very low SAT scores will take the Accuplacer exam; the results may dictate that the student enroll in and pass MAT 1010.

Credits for ENG 0040 and MAT 1010 do not count toward diploma requirements.

### Non-Traditional Student and Commuter Student Support

Commuter students and students who do not attend Castleton directly from high school often have different needs and requirements from those of traditional aged students. The Student Life Office, located in the Campus Center, offers information and support for these students. These services include, but are not limited to, off-campus housing information and information on upcoming daytime events.

### Pre-professional Advising

Castleton students who hope, upon graduation, to enroll in professional schools of engineering, law, medicine, dentistry, chiropractic medicine, osteopathic medicine, pharmacy, or veterinary medicine may receive special guidance to increase their chances of being successful candidates.

- **Medicine:** A Pre-Professional Advising Committee in the Natural Sciences Department provides assistance to students interested in medically related fields, has material on requirements for admission to various schools, and can assist in designing an appropriate bachelor's degree program. Students should contact the committee, early, through the department chair.
- **Engineering:** Students interested in engineering should contact the Mathematics or Natural Sciences departments. Students can obtain additional information about specific entrance exams at the Career Development Office in the Campus Center.
- **Law:** Students seeking preparation for law school should consult with the Pre-Law Advisor (Professor Rich Clark) early in their first year. Castleton's Pre-Law Program equips students to gain entrance to law school and pursue a successful career in the legal profession. For more information, go to the Pre-Law page.
- **Pharmacy:** Students seeking preparation for Pharmacy school should consult with the Pre-Pharmacy Advisor, Professor Peter Kimmel. For information on Castleton's Pre-Pharmacy Program, go to the Pre-Pharmacy page.

### Testing Services

The Education Department facilitates testing for teacher licensure through ETS/Praxis and ACT. For questions or scheduling information, please contact the Education Department at (802) 468-1220. Practice CD's and materials are available in the library and on-line at [www.ets.org/praxis/prepare/materials](http://www.ets.org/praxis/prepare/materials) and [www.act.org/products/k-12-act-test/](http://www.act.org/products/k-12-act-test/).

## **Special Academic Opportunities**

The curriculum of Castleton University is designed to provide students both with a solid foundation in the liberal arts and with preparation for selected careers and professions.

To accomplish these goals, Castleton insists that students fulfill General Education requirements as well as the specific requirements of the major or pre-professional program chosen. The General Education requirements provide the common base of knowledge and skills expected of university graduates as well as a sampling of various academic subjects, which have been chosen to broaden the student's knowledge and understanding. As students advance toward their degree, Castleton offers a number of special academic opportunities to enrich their curricular experiences.

- Civic Engagement Certificate
- Community Service
- Consortium and Contractual Agreements
- Field Experience
- Independent Study
- Internships
- ROTC
- Service Learning

- First-Year Seminar
- Honors Scholarship Program
- Study Abroad Opportunities
- Tutorial Study

### Civic Engagement Certificate

This certificate, open to degree-seeking students regardless of major, allows students to develop knowledge and skills necessary for promoting positive change in their communities by combining disciplinary and inter-disciplinary coursework with direct community service, engagement, and leadership. The receipt of the Civic Engagement Certificate will be noted on the student's transcript when the degree is awarded.

Complete the following requirements:

1. Attend required two-hour orientation and training session.
2. Declare interest in Civic Engagement program by beginning of junior standing.
3. Successfully complete four courses designated Civic Engagement:
  - a. At least two of the four courses must be from different General Education Frames of Reference.
  - b. The remaining two courses may be from within or outside the General Education curriculum.
  - c. At least one of the four courses must be at the 3000 level or above.
  - d. No more than two courses from any one discipline can be used to complete the four-course requirement.
4. Complete 160 hours (40 hours average per year) of service fieldwork approved by the Civic Engagement Committee:
  - a. Fieldwork related to coursework or to extracurricular activities may be used to complete the 160-hour requirement.
  - b. All service, regardless of designation of "service," "engagement," or "leadership" can be counted toward the 160-hour requirement.
5. Complete Project/Paper:
  - a. After at least three courses and at least 75% of hours are completed, students will prepare project/paper to be completed prior to graduation.
  - b. Paper/project may be based upon service hours or Civic Engagement courses, but will be reviewed by a designated panel of faculty at the proposal and final stages.
  - c. Project/paper will demonstrate service, engagement, and leadership aspects.

### Community Service

Castleton is committed to the idea that community engagement plays a central role in fostering students' personal and social development. Through community service students broaden their life perspective, discover and strengthen their voices, and become aware that their actions can make a difference. The director of community services, internships, and service-learning, located in the Robert T. Stafford Center for the Support and Study of the Community in Moriarty House, creates and maintains partnerships with the community, and coordinates the involvement of students, faculty, and staff in meaningful service initiatives.

### Consortium and Contractual Agreements

To broaden the educational opportunities available to Castleton students, Castleton periodically enters into formal agreements with other colleges and universities so that Castleton students can pursue enriching educational work at these other institutions. Consortium agreements can be written between Castleton and other colleges and universities eligible to receive federal financial aid. Contractual agreements are similar to these but are negotiated between Castleton and other higher education institutions, often outside the U.S. that are not eligible to receive federal financial aid but are deemed fully capable of delivering instruction compatible with and supplementary to our curriculum. Students may not complete more than 25% of their degree requirements through contractual agreement study. Students participating in these programs may be eligible to receive financial aid through Castleton for their participation. (Also see related policy under "Prior Approval of Courses for Transfer" and under "Evaluation of Transfer Credits".)

## Field Experience

Field experiences are developed in the various departments to provide students with "real world" experience in their chosen profession. Field experiences are generally offered as a regular part of a major curriculum with a well-defined, standard set of course outcomes.

## First-Year Seminar

Students who graduated from high school within the year prior to matriculating at Castleton are required to take a First-Year Seminar in their first semester. (Exceptions may be made for students who participated in a full-time early college program.) Transfer students with fewer than 12 credits from an accredited college are required to take a First-Year Seminar in their first semester and those with 12 or more credits are strongly encouraged to take a Transfer Seminar.

These seminars are specially designed courses that emphasize the development of academic skills and the integration of the student into the university community. In conjunction with Common Hour and Soundings, First-Year Seminars assist new students with the transition to university life by providing opportunities for academic, social, and personal development. Students' First-Year Seminar instructors also act as their academic advisors during their first year at Castleton. See General Education Program for more information.

## Honors Scholarship Program

The Castleton Honors Scholarship Program provides high-achieving students with a generous financial aid package, a stimulating academic experience, and a supportive community of peers and professors. The goals of the program are to bolster recruitment and retention of exceptional students and to stimulate a campus climate of intellectual curiosity and academic achievement.

### **Benefits of the program**

- **scholarship** of up to \$10,000 per year, for four years
- option to live in **Honors housing** every year
- **priority registration** for classes during the first year
- enroll in an **Honors course** every semester of the first and second years
- opportunity to serve on the student-run **Honors Council**

### **Honors Courses**

*Honors students enroll in one Honors course every semester of their first and second years. Honors courses at Castleton provide a robust, engaging, and enriching experience because:*

- Honors classes have a maximum enrollment of just 20 students.
- Honors courses are academically rigorous in order to challenge exceptionally motivated students.
- Honors courses are intellectually stimulating in order to satisfy uncommonly curious students.
- Honors courses delve into topics with more depth, greater breadth, and at a faster pace, than most courses.
- Honors courses require a bigger time commitment than most courses (as the students are expected to read more complex material, perform more extensive research, and write more sophisticated analyses).
- Honors courses are filled with Honors students.

### **Honors Housing**

The purpose of Honors housing is to create a vibrant community that promotes the social life of our Honors students while supporting their academic endeavors. Accordingly, beautiful Audet House is reserved for any Honors students who would like to live with their peers. Honors Housing is staffed by two Community Advisors who are themselves Honors students. The house features special programming geared to Honors students (barbecues, special advising

sessions, field trips to graduate schools, etc.). In addition, residents are eligible to participate in the student-run Honors Council, which meets periodically to develop programming and suggest improvements to the Honors Program.

### **Eligibility for the Honors Program**

| <b>Reading and Math Combined SAT / ACT Composite Score</b> | <b>High School GPA</b>     | <b>Scholarship Amount</b> |
|------------------------------------------------------------|----------------------------|---------------------------|
| 1100 or higher / 24 or higher                              | 3.3/4.0 or higher (88/100) | Up to \$10,000            |

Eligible students are awarded scholarship upon acceptance to the university. Students who choose to accept the scholarship and matriculate at Castleton will be expected to participate in the program. Scholarships are renewable for up to four years of continuous enrollment at Castleton without regard for need as long as the student maintains a 3.0 GPA. Students must meet all eligibility criteria. GPA is calculated by Castleton Admissions using academic courses only on an unweighted 4.0 scale. Scholarships are awarded on a first come, first served basis to bachelor degree seeking students. Amounts are non-negotiable and may be used for tuition only.

First-year students who earn a 3.75 GPA and are nominated by their FYS professors are eligible to receive the Academic Recognition Scholarship, which includes membership in the Honors program.

### Independent Study

Independent Study is designed to provide the student with the opportunity to work individually with a faculty member in a subject area, or on a project, that is normally not available through regular course work. Effort should be consistent with the usual expectations of fifteen hours of class time and thirty hours of study time for each credit.

The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. The student must complete an Independent Study Contract form, which can be obtained at Financial & Registration Services. The form requires signatures of the student, the instructor, the department chair, and an academic dean. The completed form must be filed at Financial & Registration Services at the time of registration.

Independent Study may be taken more than once. Students are limited to a maximum of three credits of Independent Study in any one department for a given semester. Veterans or veterans' dependents registered for Independent Study must report their total number of Independent Study credits to the Veteran's Certification Officer at the Registrar's Office.

### Internships

Recognizing the educational value of activities and studies other than traditional course work, Castleton provides opportunities for individualized learning through Internships, Field Experience, Independent Foreign Study, Independent Study, and Tutorial Study.

Internships provide positions of responsibility for the student in a professional environment under the supervision of an on-site professional and a faculty member. Students are placed with participating employers for work terms during which they may earn up to 12 academic credits per semester in addition to acquiring on-site experience. While internships may be either on- or off-campus experiences, they are generally characterized by an independent design and the integration of classroom work with practical experience. Internships should include critical and reflective components.

An internship is designed to introduce the student to the opportunities, duties, and responsibilities of personal career objectives through an experience collaboratively planned by the student, academic department, the employer, and the Robert E. Stafford Center for the Support and Study of the Community. Thus the student becomes aware of what a potential career looks like on the ground, and also how his or her courses relate to and support the career choice.



Internship work locations may include distant sites to more fully satisfy student requirements and preferences. While all internships carry academic credits, some internship roles also provide financial remuneration.

While the departments may enforce more stringent acceptance standards, Castleton requires as minimum qualifications:

1. Students must be in good academic standing at Castleton to participate in an internship.
2. Students must have completed 12 credits at Castleton University.
3. Students must be matriculated prior to applying for an internship.
4. The Internship Contract form requires approval of the Castleton faculty supervisor and the on-site supervisor. The department awarding credit determines specific prerequisites for internships.
5. Internships may be taken either on a pass/no pass basis or for a grade.

The following guideline identifies the general number of internship hours expected for a specified credit award:

40 hours per week for 14 weeks = 12 credits

30 hours per week for 14 weeks = 9 credits

20 hours per week for 14 weeks = 6 credits

10 hours per week for 14 weeks = 3 credits

100 hours = 2 credits

50 hours = 1 credit

Hours for internships worth more than twelve credits are determined by arrangement. Information may be obtained from the Robert E. Stafford Center for the Support and Study of the Community in Moriarty House.

### ROTC

Castleton students may enroll in the University of Vermont's Army ROTC program. The four-year Military Studies program consists of the Basic and Advanced Courses described in detail on UVM's website. Most of the first two years of this program can be taken on campus at Castleton when demand is sufficient, but some training will take place at UVM and Army facilities. The junior and senior years of the ROTC program are offered at UVM, to which Castleton students will travel approximately once a week. Two-, three-, and four-year Army ROTC scholarships are available to qualified applicants. Information is available through the Castleton Admissions Office.

The Basic Course is open to all first-year and sophomore students and is designed to introduce interested students to the Army, the role of an Army officer, and basic military skills. Please see Financial & Registration Services for a registration form. Other than for Army ROTC scholarship students, the Basic Course incurs no military obligation. All military studies courses will be recorded on the Castleton transcript and will count as elective credit.

The Advanced Course is open to qualified junior and senior students who have either successfully completed the Basic Course, the Army ROTC Basic Camp, or Army Basic Training and Advanced Individual Training. The course is designed to prepare students for careers as Army officers. Students are required to successfully complete a 35-day Army ROTC Advanced Camp the summer following their junior year. Upon completion of the Advanced Course and a bachelor's degree, graduates are commissioned as Second Lieutenants in the United States Army, Army Reserves, or Army National Guard.

### Service-learning

Service-learning is an approach to teaching whereby faculty seek to meet educational objectives of their courses by having students work in, with, and for the community. Critical to successful service-learning is the notion of mutual benefit to both students and community partners. All service-learning courses build in opportunities for students to reflect on what they have learned in the field. The activities and projects that are developed as part of service-learning courses must result in educational benefit for students in ways that tie directly to goals of the curriculum, but they must also contribute to meeting community needs identified by one or more community agencies.

Castleton encourages study abroad as a wonderful way to understand the world and our place in it. Student travelers are expected to have a 2.5 GPA and they must be in good standing as outlined by the "Code of Conduct" in the *University Handbook*.

**British Experience:** Castleton offers a Semester in Greater London at Roehampton University. Students are accompanied to London by our faculty and enroll at Roehampton, living in suites with British students. Information about costs, course offerings and travel/housing arrangements can be obtained in the office of the Associate Academic Dean.

**Fall in the Field:** Castleton's Semester in Santa Fe provides a hands-on, multicultural experience in the American Southwest. Faculty from Castleton teach in Santa Fe for the semester. Students live in Santa Fe learning about the cultures (Native American, Mexican and Anglo) and history of the area through course work and service. They also make field trips to Native American sites and other national parks.

**Short Travel Courses:** Travel courses of shorter duration (10 to 14 days) are offered with some frequency. These courses are listed in the semester or summer course schedule and have gone to Machu Pichu in Peru, St. John for coral reef checking, the Galapagos, and Belize to explore what remains of Maya culture. For examples of the kinds of courses that have been offered, see <http://www.castleton.edu/travel>; courses change regularly.

**Study Abroad:** Any student with good advance planning may study abroad. The Spanish and Global Studies majors require all students to spend time abroad, arranged in consultation with the Study Abroad Advisor or the International Resource Coordinator. Students wishing to participate in non-Castleton programs abroad should first consult with their departmental advisor and, after selecting a program, get pre-approval for course work to ensure that credits will transfer back to Castleton.

#### Tutorial Study

Tutorial studies are designed to alleviate scheduling conflicts. Students may be allowed to take an existing course independently, provided that the faculty member involved wishes to offer the course on this basis. The student must initiate the process with a written proposal to the appropriate instructor. The form, which can be obtained at Financial & Registration Services, requires signatures of the student, the instructor, the department chair, and an academic dean. The completed form must be filed at Financial & Registration Services at the time of registration.

## International Students

*International students may direct any questions about the university to the Coordinator of International Student Services: Deborah Singiser.*

- Admissions Documents
- Scholarships
- Orientation
- International Seminar
- English Language Support Program

We welcome international students on our campus; however, before we can process an application for admission we must have assurance that the personal needs of that student will be met as well as the financial obligations to the institution of approximately \$30,000 a year.

- Students must provide a financial statement demonstrating their ability to finance their total cost of attendance. (All funds must be in U.S. dollars.)
- IELTS/TOEFL is required if English is not your first language. This can be taken in place of SAT/ACT
- All documents must be in English
- All foreign transcripts must be evaluated by an accredited service

Incoming international students may click [here](#) to see 2016-2017 scholarships for international students.

Castleton provides a special international orientation program (that precedes the new student orientation) for international students entering Castleton for the first time.

In addition to international orientation, first-year international students enroll in INT 1710: iSeminar, a one-credit course that meets once a week in the Fall to provide international students a basic orientation to the culture of higher education in the United States.

The course has two upper-class students who serve as mentors for our international students during their time at CU.

## The Program

Castleton's English Language Support Program (ELSP) is intended for academically qualified international students, regardless of major, whose English language proficiency is marginally acceptable but needs development to ensure success as they advance toward completion of their degrees. Students in the ELSP take a select set of academic courses (12 credits) during each semester of their first year at the University, supplemented by non-academic work in English as a Second Language (3 credits). All of the academic courses fulfill degree requirements, are taught by disciplinary faculty members who embrace the challenges of evolving language proficiency, and include both non-native and native English-speakers on their class rosters. Students participating in the ELSP take the institutional TOEFL at entry, to establish an accurate baseline of current proficiency, and again at the end of the fall and spring semesters, to measure progress and determine need for further support. The ELSP thus enables international students to maintain a full course of study toward their academic degree programs, in a learning environment sensitive to their present language skills, as they continue to strengthen their levels of English proficiency.

## The Process

1. Upon arrival at Castleton, students who do not meet the University's TOEFL or IELTS requirement (or did not submit such scores prior to enrollment) will take a pre-test to determine their English skill level.

- Students who pass the test will be able to register for any university courses.
- Students who do not pass the test will be enrolled in the ELTP and in the first semester take four ELTP courses and a special English course.

2. At the end of the first semester, students will be re-tested.

- Those who pass the test will be able to register for any university courses (and continue to have English support as needed).
- Those who do not pass the test will continue in the ELTP for a second semester.

3. At the end of the second semester, students who do not meet Castleton's English language requirement will be subject to dismissal from the University.

## Tuition, Fees, & Financial Aid

### Deposits

All new and readmitted students who have been accepted for admission to Castleton are required to submit a non-refundable deposit of \$200 to the Admissions Office prior to May 1st, which can be paid online. Students admitted after May 1 should submit the deposit within ten days of acceptance. Deposits should be submitted as soon as the decision to attend Castleton has been made.

A \$100 non-refundable room deposit is required of all current returning residential students requesting a room in the Residence Halls. The deposit for Fall 2016 for returning students is due April 15, 2016. Deposits can be paid over the phone or mailed to Financial & Registration Services except where noted otherwise. Tuition bills must have a zero balance or be current on the payment plan to be eligible to make the room deposit

#### Fees for 2016-2017

A Student Resources Fee of \$398 per semester is assessed to help finance the Castleton Student Initiative projects which include an enlarged and renovated Campus Center, enlarged and renovated gymnasium, and improved athletic fields. The fee is assessed at \$34 per credit up to 12 credits up to a maximum of \$398 per semester for matriculated students.

The Student Association Fee of \$135 per semester, established by vote of the Student Association, covers the expense of student government, clubs, activities, and publications for the academic year. This fee is assessed at \$12 per credit up to 12 credits up to a maximum of \$135 per semester for matriculated students.

A late registration fee of \$62 is charged to students who have not completed registration for the semester within ten days following the first day of classes.

Newly admitted students are charged a one time \$230 non-refundable registration/orientation/testing fee for fall. Newly admitted spring students are charged \$115.

A graduation fee of \$95 is charged to cover costs of diploma and activities. Students receiving two degrees at the same graduation ceremony are charged an additional \$10 to cover the extra diploma cost. Students receiving two degrees at separate ceremonies are charged the full graduation fee each time. Graduates attending commencement exercises are required to purchase a cap and gown at an approximate cost of \$35.

Full-time students should anticipate paying approximately \$800 per semester for textbooks. During the first two weeks of class, students are allowed to charge their books and supplies directly to their tuition account if they so choose. Also, some courses require the payment of a fee for supplies, materials or services in addition to tuition and books. The fees are payable in full by students registered in a course at the close of the two week add/drop period. Partial refunds are not made.

Late fees may be assessed on any student account over \$200 if not paid by the due date. The following are established rates that will be charged on a monthly basis until the end of the semester:

- balances from \$200 to \$2,000 will be charged \$50 monthly
- balances from \$2,001 to \$5,000 will be charged \$100 monthly
- balances from \$5,001 and up will be charged \$200 monthly

Add/Drop Fee is assessed after the first two weeks of classes (for full semester classes) to those students who change their schedule. A \$24 fee will be assessed for each class adjustment. If a class is dropped after the first two weeks of classes, there will be no adjustment to the tuition account. If all classes are dropped, please refer to the Leave of Absence Policy. If classes are added, the tuition account will be adjusted accordingly.

All non-matriculated students are charged a \$50 registration fee at the time they register for courses. Payment is due at the time of registration.

#### Financial Aid

Although the primary responsibility for financing students' education rests with their families, the Financial Aid Office at Castleton administers a comprehensive financial aid program to help students afford a university education. The financial aid program at Castleton primarily consists of federal funds (grants, scholarships, loans and work-study). The amount of financial aid awarded is dependent upon availability of funds and demonstration of financial need. Financial need is the difference between the cost of attendance (budget) and the calculated resources of the family (EFC). A

student's budget usually includes costs for tuition, fees, room and board, and an allowance for transportation, books, supplies, and personal expenses. In some cases unusual expenses such as medical, may be added. Funds received through the various financial aid programs are supplemental to the resources of the family, the efforts of the student and the assistance received by the student from other sources. The federal aid programs are subject to change due to changes in state and/or federal legislation/regulations.

You may apply for financial aid on-line at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

Vermont residents should also complete the Vermont Grant application. You may apply for this grant on-line at [www.vsac.org](http://www.vsac.org). Non-residents should check with their home state higher education agency for state grant information.

The Financial Aid Office may request additional information. Notification of financial aid eligibility will be emailed to all students advising them to go to the Portal/VSC Web Services to actually review the financial aid awarded. The student should respond to any request for additional information immediately. To view documents needed go to the Portal/VSC Web Services. Failure to do so may result in loss or delay of financial aid.

Financial Aid is awarded to accepted new students and to registered returning students. Returning students must be registered or intend to register for the period of time for which they are requesting aid. Please check the Castleton website for preferred deadlines.

The types of financial aid awarded are:

**Federal Grants** - these funds do not have to be repaid and are based on need. For 2016-2017, Federal Pell Grants range from \$598 to \$5815. For additional information on the 2016-2017 terms and conditions, please refer to the Financial Aid & Scholarships page.

**Federal Work Study** - part-time employment. Students are paid directly. Eligible new students are initially awarded up to \$1,500; returning students are initially awarded up to \$2,000.

**Federal Direct Student Loans** - these funds must be repaid. All Federal Stafford Direct Loans are borrowed from the Department of Education/US Treasury. These loans are repayable for an extended period of time. Click here for more information about Direct Loan levels.

**The Perkins Loan program** is a separate loan program from the Federal Direct loan program. The funds for this program are limited and distributed based on exceptional need and availability of funds. For 2016-2017 the amount awarded is up to \$2,250. Click here for more information about the Federal Perkins Loan program.

#### **First Year Student Scholarships (for new, transfer, and international students)**

- a. Castleton Honors Scholarship Program awards renewable scholarships that do not have to be repaid and are based on merit.
- b. Recognition Scholarships (Academic Achievement, Citizenship, and National Scholars) are awarded to new students entering in fall 2016. The Academic Achievement scholarship for Vermont residents is based on merit, the Citizenship Scholarship is based on merit and financial need, the National Scholars Scholarship is for students whose permanent residence is outside Vermont and within the U.S., and is based on merit.
  - Incoming first year students: click here to see 2016-2017 scholarships for first year students.
  - Incoming transfer students: click here to see 2016-2017 scholarships for transfer students.
  - Incoming international students: click here to see 2016-2017 scholarships for international students.

These scholarships are renewable. To remain eligible for these scholarships please review the Renewable Scholarship Eligibility criteria.

**Returning Student Scholarships** - these funds do not have to be repaid and are based on merit and/or financial need. Students must complete a Castleton University Returning Student Scholarship Application. The Castleton Scholarship Committee awards these scholarships.

Initial awards, either estimated or actual, of financial aid are based on information submitted on the Free Application for Federal Student Aid (FAFSA). Applicants who believe that circumstances exist which could change their eligibility for financial assistance should contact the Financial Aid Office.

Detailed information concerning the application process, eligibility, the award process, the types of assistance available, the refund and repayment process, satisfactory academic progress for financial aid purposes and aid recipient responsibility, is available on the Financial Aid web page under "Scholarships for Returning Students," or you may contact Financial & Registration Services. All information regarding a student's application for, or receipt of, financial assistance is confidential. The Financial Aid Office, therefore, will not release financial aid information to anyone outside of Castleton/VSC, except as required by the Department of Education, the various state grant and loan agencies that the student has applied to, or by court order, without the written consent of the student. By signing the FAFSA you give the university specific rights to discuss your application with certain agencies. Students are cautioned to carefully read all documents they sign.

Emergency short-term loans of up to \$50 are available from the Alumni Loan Fund. These loans are non-interest bearing; however, a service charge of fifty cents (\$.50) is made for each loan. Loans from these funds are usually granted for emergencies that arise. Students are generally asked to repay the loan within thirty (30) days.

### **Academic Standing for Financial Aid Purposes**

To be eligible for financial aid at Castleton a student must be in good academic standing and must be making satisfactory progress (SAP) toward completion of a degree. These standards may change during the student's enrollment period. Click here for a full explanation of the SAP requirements.

### Identification Cards

All students are required to have photo identification cards that are issued by the Public Safety Office. The initial card is free. Replacement cards cost \$35. Broken cards are replaced for \$10. Broken cards should be returned to Public Safety. Arrangements for replacement cards can be made with the Public Safety Office. Identification cards are required for access to the resident halls and by a number of departments offering student services. These include the library, dining hall, and athletic department.

### Per Credit Rates

Students registered for fewer than 12 credits are considered part-time students and are charged on a per credit basis. Students registered for more than 18 credits will be charged for each additional credit of overload. All non-matriculated undergraduates are charged on a per credit basis regardless of the number of credits for which they are registered.

Vermont undergraduates pay \$427 per credit, nursing \$555. Non-resident undergraduates pay \$1,069 per credit, nursing \$1,197 per credit.

### Refunds for Resignation or Leave of Absence

In the event of withdrawal, dismissal, resignation, leave of absence, or the dropping of classes in a manner that affects student charges, including tuition, course/lab fees, the Student Association Fee, and room and board charges, any refund will be calculated on a daily prorated basis using the same schedule utilized to determine the amount of Federal Title IV returns, with the following exceptions:

1. If a student withdraws during the first seven calendar days of the semester, the amount of refund of all student charges (tuition, fees, room, and board) will be 100 percent.
2. If a student withdraws after the 60 percent point of the semester, the amount re-funded for charges for tuition, fees and room will be zero.
3. Fees paid to acquire university health insurance are NOT refundable.

NOTE: Ceasing to attend classes does not constitute the dropping of classes or withdrawal from Castleton. In order to be eligible for a refund/repayment pursuant to the above schedule, a student MUST notify the office of the academic dean of his/her withdrawal.

### Repayment of Financial Aid

Students receiving financial assistance from the Federal Pell Grant program, the Federal Supplemental Educational Opportunity Grant program, the Federal Perkins Loan program, or the Federal Direct or Federal Family Education Loan Program (subsidized, unsubsidized and PLUS parent loans), who change their enrollment status in such a way as to cause a reduction in their university charges or non-university expenses (room, board, books, supplies, personal expenses, travel, etc.) will be required to repay all, or a calculated portion, of the assistance received.

[Click here](#) to see the Withdrawal & Return of Financial Aid policy.

### Room and Board

Residential students are required to pay the room charge of \$2,974 per semester, as well as the board charge for the meal plan selected. Commuting students who wish to eat in the dining hall may pay for the meals individually or purchase a commuter meal plan in Huden Dining Hall.

### Senior Citizens

Castleton waives a significant portion of the tuition rate for individuals aged 65 and older so they can take undergraduate courses and thereby increase their knowledge and skills and enhance their quality of life and potential to contribute in new and different fields of work and community service.

Any student aged 65 years or older:

- may audit one CU course per semester free of charge.
- may take additional courses without limitation, up to and including completion of a certificate or undergraduate degree, at 50% of the charged tuition. (Such persons may not take the place of full tuition paying students in courses with enrollment limits.)

Course specific fees, including registration fees, shall be the responsibility of the student. All other student fees are waived.

### Student Statements

Student account statements will be paperless and may be viewed anytime online. An email will be sent to your university-issued email address periodically as a reminder to view your bill. Other options available online include: making a payment, setting up authorized users (parents, e.g.) receiving refunds electronically.

### Transcripts

Students or former students may obtain a copy of their transcript by filling out the online order form available through the Financial & Registration Services tab on the Castleton website.

### Tuition

Below is a schedule of basic charges for full-time students. Full-time students are those who register for twelve (12) to eighteen (18) credits per semester. Vermont residents are students who meet the criteria of the Vermont Residency policy. Students are responsible for familiarizing themselves with the charges, fee descriptions, payment and refund policies that are detailed below.

The following schedule lists full-time tuition and basic charges in effect for the 2016-17 academic year. Tuition, fees, room and board charges are subject to change without notice due to reconsideration by the Vermont State Colleges Board of Trustees.

|                   |                              |                           |
|-------------------|------------------------------|---------------------------|
| <b>2016- 2017</b> | <b>VERMONT<br/>RESIDENTS</b> | <b>NON-<br/>RESIDENTS</b> |
|                   | PER<br>SEMESTER              | PER YEAR                  |
|                   |                              | PER<br>SEMESTER           |
|                   |                              | PER YEAR                  |

|                           |          |           |           |          |
|---------------------------|----------|-----------|-----------|----------|
| Tuition                   | \$ 5,124 | \$ 10,248 | \$ 12,828 | \$25,656 |
| Tuition: nursing students | 6,660    | 13,320    | 14,364    | 28,728   |
| Room*                     | 2,974    | 5,948     | 2,974     | 5,948    |
| Board**                   | 2,020    | 4,040     | 2,020     | 4,040    |
| Student Association Fee   | 135      | 270       | 135       | 270      |
| Student Resources Fee     | 398      | 796       | 398       | 796      |
| Insurance***              |          | TBD       |           | TBD      |

\*Based on double occupancy, if space permits, single rooms are available for \$7,534 per year.

\*\*This amount reflects the charge for a full meal plan (Gold Plan). There is also a 12 meal plan, \$1,945 per semester, and an 8 meal plan, \$1,870 per semester. Participation in a board plan is required of all resident students.

\*\*\*Health and accident insurance is mandatory for all matriculated full-time students not otherwise covered under a comparable plan. The charge for coverage for the entire 2016-17 year is TBD. For students attending only the Spring 2017 semester the charge is TBD. Students may be exempted from paying the insurance fee by submitting a selection form electronically through web services certifying that they are covered by a family insurance plan. Deadlines for form submittal are, for the Fall 2016: September 30, and for the Spring 2017 only semester: February 15. Insurance brochures are available online from the Financial & Registration Services website.

Vermont Residency

To qualify as a Vermont Resident for purposes of tuition, a student must meet criteria established by the Board of Trustees. The policy of the Board is as follows:

1. The applicant shall be domiciled in Vermont, said domicile having been continuous for one year immediately prior to the date of application for a change in residency status. Changes in residency status shall become effective for the semester following the date of application.
2. Domicile shall mean a person's true, fixed and permanent home, to which he intends to return when absent. A residence established for the purpose of attending an educational institution or qualifying for resident status for tuition purposes shall not of itself constitute domicile. Domicile shall not be determined by the applicant's marital status.
3. The applicant must demonstrate such attachment to the community as would be typical of a permanent resident of his age and education.
4. Receipt of significant financial support from the applicant's family will create a rebuttal presumption that the applicant's domicile is with his family.



5. An applicant becoming a student at an institution of higher learning in Vermont within one year of first moving to the state shall have created a rebuttable presumption of residence in Vermont for the purpose of attending an educational institution.
6. A student who is eligible for tuition purposes to enroll as a resident student in another state shall not be enrolled as a "Vermont Resident".
7. The director of admissions shall classify a student enrolling at Castleton as a resident or non-resident for admission and tuition purposes. The decision by the director of admissions shall be based upon information furnished by the student and other relevant information. He/she is authorized to require such written documents, affidavits, verifications or other evidence as is deemed necessary.
8. The burden of proof shall in all cases rest upon the student claiming to be a Vermont resident and shall be met upon a showing of clear and convincing evidence.
9. A student with resident status will lose that status if he/she, at any time, fails to meet the above requirements. In this event, resident tuition and other charges shall continue in effect only until the end of the academic year.
10. The decision of the director of admissions on the classification of a student as a resident or non-resident may be appealed in writing to the dean of administration.

A student who wishes to declare a change in his residence of record must apply to the dean of administration. Appeal of residency decisions by the dean of administration may be made in writing to the Office of the Chancellor, Vermont State Colleges. The decision of the Office of the Chancellor shall be final.

## General Education Program

### Print a Gen Ed Planner.

To graduate from Castleton University, all students must complete the requirements of their Major and satisfy the university's General Education ("Gen Ed") requirements.

- The Components of the Gen Ed Program
- Associate's Degree Requirements
- Bachelor's Degree Requirements
- Courses in the Four Frames of Reference

#### The Components of the Gen Ed Program

The goals of Castleton's Gen Ed program, which includes the Frames of Reference, are to prepare the student to search for the meaning of a good life; to develop an awareness of the interaction between personal and societal values; to foster an appreciation of the interconnectedness of all things; to stimulate intellectual curiosity and promote life-long learning.

In order to engage in meaningful and productive study, the student should develop and learn to apply a variety of skills, including reading, writing, speaking, critical thinking, using the library, and practical computing. The courses listed under the Gen Ed requirements are designed to help students develop these and other skills, and are required of all Castleton students. In addition to providing a common educational experience, these courses prepare the student for subsequent course work at Castleton, and for life beyond the university.

The nine components of the Gen Ed Program are as follows:

- |                               |                                 |                                   |
|-------------------------------|---------------------------------|-----------------------------------|
| • University Writing Standard | • Information Literacy Standard | • Quantitative Reasoning Standard |
| • Computing Requirement       | • Literature Requirement        | • Soundings                       |
| • First-Year Seminar          |                                 | • The Frames of Reference         |

- Oral Communication Standard

(**Transfer students** may be exempt from some Gen Ed requirements; see "Transfer Policies for Newly Admitted Students" under Admissions Policies )

## University Writing Standard

In order to graduate from Castleton, all students must pass the university writing assessment, which consists of ENG 1061 - English Composition, writing intensive courses, and the writing assessment folder.

-ENG 1061 should be taken within the student's first year.

-Students pursuing a Bachelor's Degree must pass two writing intensive courses, while students pursuing an Associate's Degree must pass one writing intensive course. Students who transfer in a "pass" at the Associate's level for Writing Standards from another VSC College will be required to successfully complete one additional Writing Intensive course.

-The writing assessment folder contains recommendations for improvement noted by readers of the timed essays from ENG 1061 and the student's first writing intensive course as well as the student's culminating essay. Essays in the writing assessment folder will be evaluated according to the University's Writing Standards. Students will sit for the culminating essay, offered each semester, during a special session scheduled near the conclusion of their final required writing intensive course. The student's culminating essay is reviewed by a university committee, which determines whether the essay receives a "pass," a "no pass," or a "pass with distinction." Students whose essays receive a "no pass" are encouraged to complete another writing intensive course, near the end of which they will be afforded the opportunity to compose another culminating essay. Those who elect not to complete an additional writing intensive course are responsible for both inquiring as to the date and time of each semester's opportunity to sit for the culminating essay and indicating their desire to participate.

For a complete description of the process through which students fulfill Castleton's writing standard, see the booklet, "A Guide to the Castleton Writing Standards," which is available in paper copy at the Academic Deans' Office, the English Department, the Academic Support Center, the Calvin Coolidge Library, and in electronic form on the university website.

## Computing Requirement

As a part of their general education, students will learn a sufficient level of computing knowledge and skills necessary to compete successfully in the current academic and workforce environments. To meet this goal, students must complete a course that is designated Computing Intensive (CI). Students may meet this requirement in one of two ways:

- Most students will complete a **foundational computing-intensive course** (e.g. ART 1230, BUS 1270, COM 1230) during their first year. Such a course is designed to provide a broad overview of university-level computing and a competent level of proficiency in at least four of the following skill areas: engaging in electronic collaboration and communication; the use and creation of structured electronic documents; the preparation of technology-enhanced presentations; the management of and ability to run reports from databases; the use of spreadsheets to manage and manipulate data; and the use of graphical and multimedia technologies.
- Students may elect to wait and complete this requirement by enrolling in one of the **advanced computing-intensive courses** once they have begun their studies in specific majors. (Programs with computing intensive courses include: Business Administration, Computer Information Systems, Chemistry, Education, Geography, Music, Physical Education, Psychology, Science, and Sociology.) Such courses utilize computer applications required for professional work in specific fields and provide intensive instruction in one or two of the skill areas listed above.

# First-Year Seminar

Students who graduated from high school within the year prior to matriculating at Castleton are required to take a First-Year Seminar in their first semester. (Exceptions may be made for students who participated in a full-time early college program.) Transfer students with fewer than 12 credits are required to take a First-Year Seminar in their first semester and those with 12 or more credits are strongly encouraged to take a Transfer Seminar.

These seminars are specially designed courses that emphasize the development of academic skills and the integration of the student into the university community. In conjunction with Common Hour and Soundings, First-Year Seminars will assist new students with the transition to university life by providing opportunities for academic, social, and personal development. Students' First-Year Seminar instructors also act as their academic advisors during their first year at Castleton.

Some seminars are linked to a second companion course, forming a cohort or learning community. Students signing up for these seminars will automatically enroll in two courses: the FYS and its cohort or partner. Linking courses is a way to explore a theme across academic disciplines and examine a topic from different perspectives.

All First-Year Seminar students participate in a recycling project as part of the first-year experience. Castleton is committed to civic engagement, and to teaching sustainable practices. In the first semester, as a member of the Castleton University community, students are asked to help solve an environmental problem affecting all of us through recycling that is part of our larger Green Campus Initiative. Projects are aimed at preparing our graduates for engaged, environmentally responsible citizenship.

# Information Literacy Standard

Students must receive a passing grade on the university's Information Literacy assessment before they can graduate. This exam-based assessment is designed to test student competencies, as identified in the Association of College and Research Libraries' Information Literacy Competency for Higher Education, in basic skills related to determining the nature and extent of information needed; accessing the needed information effectively and efficiently; evaluating information and its sources critically and incorporating selected information into one's knowledge base and value system; and understanding many of the economic, legal and social issues surrounding the use of information and the issue of assessing and using information ethically and legally. Students are encouraged to complete the assessment soon after they have passed ENG 1061 and their FYS requirement. Instruction in the skills and knowledge on which the information literacy assessment is based is available through the library. Further information is available in the Academic Dean's Office.

# Literature Requirement

In order to earn a Bachelor's degree (but not an Associate's degree), students must satisfy the Literature Requirement by taking and passing ENG 2260 - Touchstones of Western Literature (L)

# Oral Communication Standard

Students must demonstrate that they have met the university's Oral Communication standard before they can graduate. The standard is met by taking and passing ENG 1070 - Effective Speaking and by receiving a passing grade on the Speaking Intensive (SI) component of an additional course. If a student is unable to receive a passing grade for the SI component after taking two courses that include the SI designation, they must take a 1-credit Supplemental Speaking course. The student will then be required to present before a group comprised of at least two faculty, or other

individuals, qualified to evaluate the student's oral communication skills and a small group of volunteers drawn from the university population at large.

## Quantitative Reasoning Standard

Students must receive a passing grade on the university's Quantitative Reasoning assessment before they can graduate. This exam-based assessment is designed to test student competencies related to quantitative reasoning such as algebra, logic, problem solving, and computational skills, including working with percentages. Students are encouraged to complete the assessment early in their university careers. Instruction in the skills and knowledge on which the Quantitative Reasoning assessment is based is available, including in introductory mathematics courses and through the Academic Support Center.

Students who have earned either a 600 or higher on the math section of the SAT, or a 150 or higher on the Core Academics Skills Test for Educators, or a 175 or higher on the math section of Praxis I will have satisfied the Quantitative Reasoning Standard upon submission of their scores to the Registrar. Further information is available in the Academic Deans' Office.

## Soundings

Soundings, or "Introduction to the Liberal Arts," is a three-course sequence-First-Year Soundings I (INT 1051), First-Year Soundings II (INT 1053), and Junior Soundings (INT 3054)-where students attend a number of on-campus cultural events in order to experience the richness and vitality of the liberal arts through lectures, plays, films, recitals, poetry readings, dance performances, and other activities. The three-course sequence totals 2 credits.

Students must take First-Year Soundings I and First-Year Soundings II during their first year at Castleton. Consequently, a student may not drop Soundings unless, in the judgement of the teachers of Soundings, he or she has a very serious reason such as substantial personal hardship or prolonged illness.

## The Frames of Reference

All students must complete a specified number of courses in each of the four "Frames of Reference." The four areas of learning are an introduction to the variety of ways that human beings understand and explore their world and themselves. The requirements in each frame provide a starting point for further exploration of the category of human knowledge and ways of knowing represented by the frame, and may be satisfied by courses in a number of different fields of study. Students are encouraged to experiment by taking courses in academic areas with which they are unfamiliar.

Taken together, the frames provide a balance to the concentrated focus of the major by placing the student's university experience within the wider context of an intellectual heritage shared by all human beings. In addition, the frames are intended to make students aware that many academic disciplines, both within and across frames, share common concerns and themes, and that the apparent diversity of disciplines is not a cacophony of voices; it is a chorus.

The four frames of reference are as follows:

**Aesthetic Understanding and Activities** - This area of study is concerned with the forms of human expression, the value of aesthetic activities, artifacts, and experiences, and the contributions of the arts and language to human life and culture.

- *Students will demonstrate awareness and understanding of several forms of cultural expression such as: creative writing, dance, motion picture arts, music, theatre, and visual arts.*
- *Students will be able to critically discuss and write about the arts.*

- *Students will develop an understanding of the historical and/or philosophical context of forms of human expression, and the value of aesthetic activities.*
- *Students will gain a broader knowledge of the contribution of the arts to society.*

**Scientific and Mathematical Understanding** - This area of study is concerned with mathematical and empirical ways of knowing, pertaining to such things as nature, the universe, the human body, mathematics, logic, and critical thinking.

- *Students will demonstrate scientific literacy.*
- *Students will be able to apply the scientific method, as well as understand the values and limitations of scientific investigation.*
- *Students will be able to explain how our natural world is affected by human and nonhuman processes.*
- *Students will demonstrate proficiency in logical and mathematical reasoning, allowing them to acquire, understand, and apply mathematical concepts and information in quantitative, qualitative, and statistical ways.*

**Social and Behavioral Understanding** - This area of study is concerned with the issues and principles involved in understanding human behavior and personality, social life and institutions, economics, and politics.

- *Students will be able to describe basic theories of human behavior and personality, including environmental factors that influence the development of human personality.*
- *Students will be able to describe theories of, and differences in, human social organization, including the organizational structures of economic life and work, family, marriage, child rearing, education, and politics around the world.*
- *Students will be able to describe issues and theories about the relationship between society and the individual, including the political and economic factors that influence that relationship.*
- *Students will be able to describe moral and ethical issues and theories concerning human life both individually and socially.*
- *Students will develop a basic understanding of the intersections of our human environment with the natural environment.*

**World Views: Cultural, Historical, and Philosophical** - This area of study is concerned with understanding oneself in the larger contexts of one's own and other cultures as presented by the study of history, geography, language, philosophy, ethics, and anthropology.

- *Students will explore various aspects of thought, culture, language and tradition, as seen in various forms of communication among the peoples of the world.*
- *Students will demonstrate a broader knowledge of the commonalities and the diversity of cultures of the world.*
- *Students will understand themselves in the larger contexts of their own and other cultures.*
- *Students will learn about various schools of philosophical thought.*

#### Associate's Degree Requirements

(Transfer students may be exempt from some Gen Ed requirements; see "Transfer Policies for Newly Admitted Students" under Admissions Policies )

**University Writing Standard** - Complete ENG 1061 - English Composition and 1 Writing Intensive (WI) course. Earn a "Pass" on the Writing Assessment Folder, which includes the culminating essay.

**Computing Requirement** - Complete either ART 1230, BUS 1270, COM 1230 or a course designated as computing intensive (CI).

**First-Year Seminar (FYS)** - Students who graduated from high school within the year prior to matriculating at Castleton are required to take a First-Year Seminar in their first semester. (Exceptions may be made for students who participated in a full-time early college program.) Transfer students with fewer than 12 credits are required to take a

First-Year Seminar in their first semester and those with 12 or more credits are strongly encouraged to take a Transfer Seminar.

**Information Literacy Standard** - Complete library work, course work, and pass an Information Literacy Assessment.

**Oral Communication Standard** - Pass ENG 1070 - Effective Speaking and the SI component of an additional course.

**Quantitative Reasoning Standard** - Pass exam-based Quantitative Reasoning Assessment.

**Soundings** - Complete First-Year Soundings I (INT 1051)

**The Four Frames of Reference:**

- Aesthetic Understanding and Activities 3 cr
- Scientific and Mathematical Understanding 3-4 cr
- Social and Behavioral Understanding 3 cr
- World Views: Cultural, Historical, and Philosophical 3 cr

Note: A course may be used to satisfy only one frame of reference. In many cases the First-Year Seminar course or the Writing, Speaking, or Computing Intensive courses will also satisfy the frames of reference, Gen Ed, major, or minor requirements.

**Minimum Total Credits Required for an Associate's Degree: 64 cr**

**In order to graduate a student must attain an overall GPA of 2.0 on courses taken at Castleton.**

Bachelor's Degree Requirements

*(Transfer students may be exempt from some Gen Ed requirements; see "Transfer Policies for Newly Admitted Students" under Admissions Policies )*

**University Writing Standard** - Complete ENG 1061 - English Composition and 2 Writing Intensive (WI) courses and earn a "Pass" on the Writing Assessment Folder, which includes the culminating essay.

**Computing Requirement** - Complete one of the following: ART 1230, BUS 1270, COM 1230, GEO 2210, MUS 3450, SCI 2210 or a course designated as computing intensive (CI). (PSY 3151 and/or PSY 3152 satisfy the CI requirement for Psychology majors; SOC 3910 satisfies the CI requirement for Sociology majors.)

**First-Year Seminar** - Students who graduated from high school within the year prior to matriculating at Castleton are required to take a First-Year Seminar in their first semester. (Exceptions may be made for students who participated in a full-time early college program.) Transfer students with fewer than 12 credits are required to take a First-Year Seminar in their first semester and those with 12 or more credits are strongly encouraged to take a Transfer Seminar.

**Information Literacy Standard** - Complete library work, course work, and pass an Information Literacy Assessment.

**Literature Requirement** - Complete ENG 2260 - Touchstones of Western Literature (L).

**Oral Communication Standard** - Pass ENG 1070 - Effective Speaking and the SI component of an additional course.

**Quantitative Reasoning Standard** - Pass the exam-based Quantitative Reasoning Assessment.

**Soundings** - Complete First-Year Soundings I (INT 1051), First-Year Soundings II (INT 1053), and Junior Soundings (INT 3054).

**The Four Frames of Reference:**

- Aesthetic Understanding and Activities (each course must have a different prefix) 6 cr
- Scientific and Mathematical Understanding (No more than 2 courses may have the same prefix) 10 cr
- Social and Behavioral Understanding (each course must have a different prefix) 6 cr
- World Views: Cultural, Historical, and Philosophical (each course must have a different prefix) 6 cr

Note: A course may be used to satisfy only one frame of reference. In many cases the First-Year Seminar course or the Writing, Speaking, or Computing Intensive courses will also satisfy the frames of reference, Gen Ed, major, or minor requirements.

Note: Each Frame of Reference requires you to complete courses in more than one subject (in other words, different course prefixes are required). For example, you cannot use two art ("ART") classes to complete the Aesthetic Understanding frame.

**Minimum Total Credits Required for a Bachelor's Degree: 122 cr.** (To complete a bachelor's degree in four years, you must successfully complete a minimum of 15-16 credits per semester.)

**In order to graduate a student must attain an overall GPA of 2.0 on courses taken at Castleton.**

#### Courses in the Four Frames of Reference

*All students must complete a specified number of courses in each of the four Frames of Reference. Click below to see the courses in each Frame:*

Aesthetic Understanding and Activities

Scientific and Mathematical Understanding

Social and Behavioral Understanding

World Views: Cultural, Historical and Philosophical

## Departments

### Art Department

*Department Chair: Assistant Professor Oliver Schemm*

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

For more information please visit our website at [www.castleton.edu/art/index.htm](http://www.castleton.edu/art/index.htm)

## **Bachelor's Degrees**

### **Art: Art Education (BA.ART.ARE)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## **BA in Art with a Concentration in Art Education**

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr



And complete these courses (30 cr):

complete these 7 courses:

- ART 1011 - Drawing I 3 cr
- ART 2211 - Painting I 3 cr
- ART 2251 - Sculpture I 3 cr
- ART 2301 - Photography I 3 cr
- ART 2311 - Printmaking I 3 cr
- ART 2420 - Introduction to Art Education 3 cr
- ART 3150 - Art Education: Contemporary Issues and Practice 3 cr

and complete one of these courses:

- ART 1410 - Digital Photography I 3 cr
- ART 2510 - Graphic Arts Production 3 cr

and complete two of these courses:

- ART 2012 - Drawing II 3 cr
- ART 2212 - Painting II 3 cr
- ART 2252 - Sculpture II 3 cr
- ART 2302 - Photography II 3 cr
- ART 2312 - Printmaking II 3 cr
- ART 1231 - Ceramics I 3 cr (offered at CCV)

And take the Capstone courses (4 cr):

- ART 3131 - Professional Studio Arts I 3 cr
- ART 4920 - Senior Exhibition/Presentation 1 cr

(Total Art credits: 46)

And complete the Education Department requirements (35 cr):

Students must choose either Elementary Education Licensure (K-6) or Secondary Education Licensure (7-12).

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Art: Art History (BA.ART.ARH)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum,

the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## BA in Art with a Concentration in Art History

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And complete these History courses (6 cr):

- HIS 1125 - The Ancient World 3 cr
- HIS 1135 - Global History 3 cr

And complete, with Department approval, 2 courses from these areas (6 cr):

- Digital Photography
- Literature
- Philosophy
- Studio Art

And choose 6 courses from the following (18 cr):

- ARH 2030 - History of Architecture 3 cr
- ARH 2710 - Special Topics in Art History 3 cr
- ARH 3010 - Classical Art: Greece and Rome 3 cr
- ARH 3030 - Italian Renaissance Art 3 cr
- ARH 3040 - The Art of Medieval Europe 3 cr

- ARH 3050 - American Art 3 cr
- ARH 3051 - History of Nineteenth Century Art 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr
- ARH 3070 - Art Since 1945 3 cr

And in the fourth year:

- ARH 4850 - Capstone Presentation 1 cr

(Credits for the major: 43)

And complete a Minor (preferably in Studio Art or History)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Art: Graphic Design (BA.ART.GDS)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## **BA in Art with a Concentration in Graphic Design**

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr

- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And take the following Graphic Design courses (33 cr):

- ART 1410 - Digital Photography I 3 cr
- ART 1620 - History of Graphic Design 3 cr
- ART 2040 - Typographic Design 3 cr
- ART 2221 - Graphic Design I 3 cr
- ART 2222 - Graphic Design II 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ART 3130 - Web Graphics and Animation 3 cr
- ART 3131 - Professional Studio Arts I 3 cr
- ART 3221 - Graphic Design III 3 cr
- ART 4133 - Professional Studio Arts II 3 cr
- ART 4222 - Graphic Design IV 3 cr

And in the fourth year:

- ART 4850 - Portfolio Preparation and Evaluation 3 cr

(Credits required for the major: 48)

And complete a Minor (preferably in Studio Art or Communication)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Art: Photography (BA.ART.PHO)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in

conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## BA in Art with a Concentration in Photography

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And complete these Photography courses (27 cr):

complete these 7 courses:

- ART 1410 - Digital Photography I 3 cr
- ART 1610 - History of Photography 3 cr
- ART 2301 - Photography I 3 cr
- ART 2302 - Photography II 3 cr
- ART 2315 - Digital Photography II 3 cr
- ART 3303 - Photography III 3 cr
- ART 4304 - Photography IV 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ARH 3070 - Art Since 1945 3 cr
- ART 3130 - Web Graphics and Animation 3 cr

And in the third and fourth years take these courses (7 cr):

- ART 3131 - Professional Studio Arts I 3 cr
- ART 4133 - Professional Studio Arts II 3 cr
- ART 4920 - Senior Exhibition/Presentation 1 cr

(Credits required for the major: 46)

And complete a Minor (preferably in Studio Art or Communication)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Art: Studio Art (BA.ART.STA)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

### **BA in Art with a Concentration in Studio Art**

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And take the following Studio Art courses (24 cr)

- ARH 1020 - Critical Periods of Western Art 3 cr
- ART 1011 - Drawing I 3 cr
- ART 2211 - Painting I 3 cr
- ART 2251 - Sculpture I 3 cr
- ART 2311 - Printmaking I 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ART 3131 - Professional Studio Arts I 3 cr
- ART 4133 - Professional Studio Arts II 3 cr

And complete 3 courses in one of these disciplines (9 cr):

Drawing

- ART 2012 - Drawing II 3 cr
- ART 3011 - Drawing III 3 cr
- ART 4011 - Drawing IV 3 cr

## Painting

- ART 2212 - Painting II 3 cr
- ART 3113 - Painting III 3 cr
- ART 4114 - Painting IV 3 cr

## Printmaking

- ART 2312 - Printmaking II 3 cr
- ART 3313 - Printmaking III 3 cr
- ART 4314 - Printmaking IV 3 cr

## Sculpture

- ART 2252 - Sculpture II 3 cr
- ART 3253 - Sculpture III 3 cr
- ART 4254 - Sculpture IV 3 cr

And in the fourth year:

- ART 4920 - Senior Exhibition/Presentation 1 cr

(Credits required for the major: 46)

And complete a Minor (preferably in Art History)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Minors

### **Art History Minor (ARH)**

The Art History Minor is offered by the Art Department. It requires 18 credits:

Complete the Survey courses (6 cr):

- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And fulfill the remaining credits from these courses (12 cr):

- ARH 2030 - History of Architecture 3 cr
- ARH 2710 - Special Topics in Art History 3 cr
- ARH 2910 - Independent Study in Art History 3 cr OR ARH 3910 - Independent Study in Art History 3 cr OR ARH 4910 - Independent Study in Art History 3 cr
- ARH 3010 - Classical Art: Greece and Rome 3 cr
- ARH 3030 - Italian Renaissance Art 3 cr
- ARH 3040 - The Art of Medieval Europe 3 cr
- ARH 3050 - American Art 3 cr
- ARH 3051 - History of Nineteenth Century Art 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr
- ARH 3070 - Art Since 1945 3 cr
- ARH 4850 - Capstone Presentation 1 cr

### Note

This minor is not available to students majoring in Art History (BA.ART.ARH)

## Graphic Design Minor (GDS)

The Graphic Design minor is offered by the Art Department.

The Graphic Design Minor requires 18 credits:

- ART 1620 - History of Graphic Design 3 cr
- ART 2221 - Graphic Design I 3 cr
- ART 2222 - Graphic Design II 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ART 3221 - Graphic Design III 3 cr
- ART 4850 - Portfolio Preparation and Evaluation 3 cr

### Note

This minor is not available to students majoring in Graphic Design (BA.ART.GDS)

## Photography Minor (PHO)

The Photography Minor, offered by the Art Department, requires 18 credits:

Complete the introductory course (3 cr):

- ART 2301 - Photography I 3 cr

And choose 1 of the following (3 cr):



- ART 1610 - History of Photography 3 cr
- ARH 3070 - Art Since 1945 3 cr

And choose 1 of the following (3 cr):

- ART 1410 - Digital Photography I 3 cr

And complete these 3 courses (9 cr):

- ART 2302 - Photography II 3 cr
- ART 3303 - Photography III 3 cr
- ART 4304 - Photography IV 3 cr

## Note

This minor is not available to students majoring in Photography (BA.ART.PHO)

## Studio Art Minor (ART)

The Studio Art Minor is offered by the Art Department. The minor requires 18 credits:

Complete these 2 courses (6 cr):

- ART 1011 - Drawing I 3 cr
- ART 1020 - Introduction to Studio Arts 3 cr

And choose 1 of the following (3 cr):

- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr
- ARH 3070 - Art Since 1945 3 cr

And choose 2 of the following Level I courses (6 cr):

- ART 1011 - Drawing I 3 cr
- ART 2211 - Painting I 3 cr
- ART 2301 - Photography I 3 cr
- ART 2311 - Printmaking I 3 cr
- ART 2251 - Sculpture I 3 cr

And choose 1 of the following Level II courses (3 cr):

- ART 2212 - Painting II 3 cr

- ART 2302 - Photography II 3 cr
- ART 2312 - Printmaking II 3 cr
- ART 2252 - Sculpture II 3 cr
- ART 2012 - Drawing II 3 cr OR ART 3011 - Drawing III 3cr

## Note

This minor is not available to students majoring in Studio Art (BA.ART.STA)

# Business Administration Department

*Department Chair: Professor Peg Richards*

The Department of Business Administration offers both an Associate in Science degree program and a Bachelor of Science degree program. The associate degree is available through the arrangement of courses into a contract which is set up under the direction of the academic advisor. The Bachelor's programs include a major in Business Administration with concentrations in Accounting, Management, and Marketing.

For more information please visit our website at <http://www.castleton.edu/academics/undergraduate-programs/business-administration/>

## Bachelor's Degrees

### Business Administration: Accounting (BS.BUS.ACC)

#### Bachelor of Science in Business Administration

The Department of Business Administration strives to provide an atmosphere that is conducive to ethical behavior and intellectual growth. The department core is designed to provide a foundation of general business knowledge on which individual programs within the department can build. Internships can be available for qualified students. Students successfully completing a Business Administration major will be able to compete effectively for professional employment, understand the importance of professional behavior, possess a strong work ethic, and be prepared to pursue lifelong learning including graduate studies and beyond.

Students are encouraged to use their selection of frames of reference courses and other free elective courses to broaden their experiences and exposure to other ways of thinking and to other disciplines. Free elective course work can be from any discipline and can be, but need not be, used to fulfill requirements for a minor.

Students completing a Bachelor of Science in Business Administration will be proficient in:

- Defining, analyzing, and solving problems in both an individual and group environment.
- Recognizing and using effective verbal and written communication skills.
- Using computers and other technologies generally used in an entry-level business environment.

## Concentration in Accounting

Students completing a BS.BUS with a concentration in Accounting are prepared to pursue careers as corporate, not-for-profit, or small business accountants or to continue their studies at the graduate level. With the addition of the Master of

Science in Accounting degree, students are prepared for careers in public accounting and advancement in private accounting. A career as a professional accountant requires a commitment to lifelong learning as the profession is continually evolving. Therefore, pre-entry education should lay the base on which lifelong learning can be built. This base has three components: skills, knowledge, and professional orientation.

Students completing a BS.BUS.ACC will demonstrate technical competency and professional knowledge in accounting theory, auditing, and individual income taxation.

## Complete the following courses:

### 1000 level

- BUS 1270 - Principles of Computer-Based Information Systems 3 cr

### 2000 level

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2030 - Case Studies in Business Administration 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- BUS 2370 - Business Communications 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr

### 3000 level

- ACC 3010 - Accounting for Management Decisions 3 cr
- ACC 3211 - Corporate Financial Reporting I 3 cr
- ACC 3212 - Corporate Financial Reporting II 3 cr
- BUS 3131 - Business Law I 3 cr
- BUS 3230 - Financial Management 3 cr

### 4000 level

- ACC 4010 - Accounting Information Systems 3 cr
- ACC 4041 - Income Tax I 3 cr
- ACC 4041L - Individual Tax Preparation 1 cr
- ACC 4050 - Auditing and Assurance Services 3 cr
- ACC 4213 - Corporate Financial Reporting III 3 cr
- BUS 4080 - Business Strategy and Policy Development 3 cr
- BUS 4110 - Operations Management 3 cr
- **-OR-** BUS 4130 - Quantitative Business Decisions 3 cr

(Credits required for the major: 58 cr)

## And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

It is **strongly recommended** that all students majoring in Business Administration complete either MAT 2021 - Statistics I and MAT 2022 - Statistics II or MAT 2021 - Statistics I and MAT 1531 - Calculus I for the scientific and mathematical frame of reference to be adequately prepared for upper level business study.

## Masters Degree

Castleton offers a one year Master of Science degree for students seeking licensure as a certified public accountant or continued career advancement in either corporate, not-for-profit, or government organizations. Castleton's graduate catalog contains a more thorough discussion of the degree including course descriptions. Requirements for initial CPA licensure vary by state; students desiring initial licensure in states other than Vermont should review the requirements of that state.

## Dual Concentration

A student may concentrate in two of the following areas of expertise within the Department of Business Administration: ACC, MGT, and MKT. The student must complete all required Business Core courses, all required courses for both concentrations, and two Business electives with an ACC, BUS, or CIS suffix. (Business electives are courses not required by the major or concentration but add depth and richness to the student's learning experience.)

## **Business Administration: Management (BS.BUS.MGT)**

### Bachelor of Science in Business Administration

The Department of Business Administration strives to provide an atmosphere that is conducive to ethical behavior and intellectual growth. The department core is designed to provide a foundation of general business knowledge on which individual programs within the department can build. Internships can be available for qualified students. Students successfully completing a Business Administration major will be able to compete effectively for professional employment, understand the importance of professional behavior, possess a strong work ethic, and be prepared to pursue lifelong learning including graduate studies and beyond.

Students are encouraged to use their selection of frames of reference courses and other free elective courses to broaden their experiences and exposure to other ways of thinking and to other disciplines. Free elective course work can be from any discipline and can be, but need not be, used to fulfill requirements for a minor.

Students completing a Bachelor of Science in Business Administration will be proficient in:

- Defining, analyzing, and solving problems in both an individual and group environment.
- Recognizing and using effective verbal and written communication skills.
- Using computers and other technologies generally used in an entry-level business environment.

## Concentration in Management

Students completing a BS.BUS with a concentration in Management will demonstrate the ability to analyze a company's situation, identify key issues, synthesize the data, and make recommendations for implementing viable solutions.

### Complete the following courses (48 cr):

- 1000 level
  - BUS 1270 - Principles of Computer-Based Information Systems 3 cr
- 2000 level
  - ACC 2101 - Accounting I 3 cr
  - BUS 2020 - Principles of Management 3 cr
  - BUS 2030 - Case Studies in Business Administration 3 cr
  - BUS 2230 - Principles of Marketing 3 cr

- BUS 2370 - Business Communications 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr  
3000 level
- ACC 3010 - Accounting for Management Decisions 3 cr
- BUS 3131 - Business Law I 3 cr
- BUS 3140 - Entrepreneurship and Small Business Management 3 cr  
-OR- BUS 3280 - Human Resources Management and Applications 3 cr
- BUS 3230 - Financial Management 3 cr
- BUS 3250 - Organizational Development and Behavior 3 cr  
4000 level
- BUS 4080 - Business Strategy and Policy Development 3 cr
- BUS 4110 - Operations Management 3 cr
- BUS 4130 - Quantitative Business Decisions 3 cr  
*(Note that MAT 2021 and MAT 2022 are prerequisites to BUS 4110 and 4130)*

## Plus 9 credits of electives

- Electives may be chosen from ACC, BUS, or CIS prefixed course at the 2000-level or higher.
- Only 6 credits of ACC, BUS, or CIS internships may be used to fulfill the electives requirement.

(Credits required for the major: 57 cr)

And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements

## Dual Concentration

A student may concentrate in two of the following areas of expertise within the Department of Business Administration: ACC, MGT, and MKT. The student must complete all required Business Core courses, all required courses for both concentrations, and two Business electives with an ACC, BUS, or CIS suffix. (Business electives are courses not required by the major or concentration but add depth and richness to the student's learning experience.)

## **Business Administration: Marketing (BS.BUS.MKT)**

### Bachelor of Science in Business Administration

The Department of Business Administration strives to provide an atmosphere that is conducive to ethical behavior and intellectual growth. The department core is designed to provide a foundation of general business knowledge on which individual programs within the department can build. Internships can be available for qualified students. Students successfully completing a Business Administration major will be able to compete effectively for professional employment, understand the importance of professional behavior, possess a strong work ethic, and be prepared to pursue lifelong learning including graduate studies and beyond.

Students are encouraged to use their selection of frames of reference courses and other free elective courses to broaden their experiences and exposure to other ways of thinking and to other disciplines. Free elective course work can be from any discipline and can be, but need not be, used to fulfill requirements for a minor.

Students completing a Bachelor of Science in Business Administration will be proficient in:

- Defining, analyzing, and solving problems in both an individual and group environment.
- Recognizing and using effective verbal and written communication skills.
- Using computers and other technologies generally used in an entry-level business environment.

## Concentration in Marketing

Marketing is a critical component to the health and growth of any organization. It is more important than ever in a time of turbulent change and increased competition, both domestically and internationally. Effective, measurable marketing will continue to be key to corporate survival in the 21st century.

The Marketing concentration offers a wide range of courses, which cover basic and advanced concepts as well as marketing strategy. Students learn to make strategic and tactical decisions regarding the product, pricing, promotion, and distribution elements of the marketing mix. Courses are taught by expert, qualified faculty with significant “real-world” marketing experience.

Students completing a BS.BUS with a concentration in Marketing will demonstrate an understanding of the role of marketing and will possess the ability to develop, analyze, and evaluate strategic, tactical and operational marketing plans.

### Complete the following courses (48 cr):

#### 1000 level

- BUS 1270 - Principles of Computer-Based Information Systems 3 cr

#### 2000 level

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2030 - Case Studies in Business Administration 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- BUS 2370 - Business Communications 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr

#### 3000 level

- ACC 3010 - Accounting for Management Decisions 3 cr
- BUS 3060 - Consumer Behavior 3 cr
- BUS 3131 - Business Law I 3 cr
- BUS 3210 - Advertising 3 cr
- BUS 3230 - Financial Management 3 cr

#### 4000 level

- BUS 4030 - Marketing Research 3 cr (*Note that MAT 2022 is a prerequisite to BUS 4030, and MAT 2021 is a prerequisite to MAT 2022*)
- BUS 4040 - Marketing Strategies 3 cr
- BUS 4080 - Business Strategy and Policy Development 3 cr

Plus 9 credits of electives

- Electives may be chosen from ACC, BUS, or CIS prefixed course at the 2000-level or higher.
- Only 6 credits of ACC, BUS, or CIS internships may be used to fulfill the electives requirement.

(Credits required for the major: 57 cr)

And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

## Dual Concentration

A student may concentrate in two of the following areas of expertise within the Department of Business Administration: ACC, MGT, and MKT. The student must complete all required Business Core courses, all required courses for both concentrations, and two Business electives with an ACC, BUS, or CIS suffix. (Business electives are courses not required by the major or concentration but add depth and richness to the student's learning experience.)

## Associate's Degrees

### Business by Contract (AS.BUS.CNT)

An Associate degree is designed to allow a student to complete a degree within two years in an area of interest. This degree would be appropriate for students who desire to obtain an initial college degree prior to making the commitment to complete a four-year degree. Courses completed for an associate degree can be applied to the completion of a four-year degree.

Complete the following courses (12 cr):

- BUS 1270 - Principles of Computer-Based Information Systems 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2370 - Business Communications 3 cr
- BUS 3131 - Business Law I 3 cr

And complete an AS.BUS.CNT Contract

The Contract must include 30 credits within the Department of Business Administration with prior approval of the student's business faculty advisor. Of these 30 credits up to 9 credits may be from non-business areas if, in the opinion of the student and the advisor, such courses will make a contribution to the student's objectives. A student wishing to concentrate the 30 credits in a specific area such as Accounting, Management, or Marketing must consult with the business faculty advisor.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Cooperative Degrees

# MBA (Castleton+Clarkson University 4+1)

Contact: Professor Paul Cohen, Department of Business Administration

Castleton offers this degree program in conjunction with Clarkson University (Potsdam, New York). This program enables Castleton students to complete an MBA in one year instead of the usual two years after a bachelor's degree. Class size for the one-year MBA program is restricted. Students are encouraged to apply early or possibly be placed on a waiting list.

Students will complete a bachelor's degree at Castleton, majoring in any of the Liberal Arts and Sciences or professional programs, and will take the required foundation courses listed below (many of which will satisfy Castleton's General Education requirements). For GUARANTEED admission to Clarkson's MBA Program students must:

1. Maintain a minimum 2.0 GPA in the foundation requirements.
2. Graduate with a minimum 3.0 GPA in upper division courses, or the last four semesters at Castleton.
3. Score in the fiftieth percentile on the Graduate Management Aptitude Test.

## Complete the required Castleton courses:

- ACC 2101 - Accounting I 3 cr
- ACC 3010 - Accounting for Management Decisions 3 cr
- BUS 1270 - Principles of Computer-Based Information Systems 3 cr
- BUS 2020 - Principles of Management 3 cr \*
- BUS 2230 - Principles of Marketing 3 cr \*
- BUS 3131 - Business Law I 3 cr
- -OR- CRJ 3050 - Law and Society 3 cr
- BUS 3230 - Financial Management 3 cr
- BUS 4110 - Operations Management 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr
- MAT 2021 - Statistics I 3 cr

\*Students completing these courses will be required to complete a course in each of these areas as part of their graduate program. This would not lengthen the program.

## In addition:

Students are expected to have a working knowledge of Calculus. (MAT 1531 will serve as foundation for Calculus).

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Program Structure

Building on a knowledge base in the foundation subjects, the MBA program consists of 30 semester hours of study (ten courses) at the graduate level. Eighteen hours must be completed from among the core courses in six of the following eight functional areas of study:



Financial Management

Accounting Theory

Marketing Management

Information Systems

Operations Management

Economic Theory

Organizational Behavior

Management Science

All students must also complete one course in Managerial Policy. The remaining nine hours (three courses) consist of electives from among the graduate offerings of the School of Management.

Thus, the candidate has the opportunity to pursue advanced work in the above functional areas as well as specialized work in a variety of other areas. A candidate for the MBA degree must also complete a project designed to test oral and written communication skills.

## **Minors**

### **Business Administration Minor (BUA)**

This minor is offered by the Business Administration Department. The minor is available to non-Business majors only. The minor requires 18 total credits selected from Accounting and Business courses. To allow familiarity with the primary functions of business, students are required to complete an accounting course, a management course, and a marketing course. To provide more depth in an area of business, students select an additional 9 credits of courses in either accounting or business; 6 credits must be at the 3000-level or higher. It is suggested that the additional 9 credits be from a specific business function such as accounting, management, or marketing. Courses at the 1000-level are not eligible for inclusion in the minor.

#### **Complete the following courses (9 cr):**

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2230 - Principles of Marketing 3 cr

#### **Plus 9 credits of electives in Accounting or Business**

6 credit must be at the 3000 level or higher

**Total credits required: 18 cr**

### **Marketing Minor (MKT)**

This minor is offered by the Department of Business Administration. All organizations, regardless of core competencies, have a need for employees trained in marketing. Marketing provides students with the skills necessary for personal and professional success in today's rapidly changing business environment.

The minor requires 18 total credits: BUS 2230 plus five marketing electives from the list below.

A second advisor from within the Department of Business Administration is required.

The Minor in Marketing is not available to Business Administration students.

### Required Course (3 cr):

- BUS 2230 - Principles of Marketing 3 cr

### And select five of the following Marketing courses (15 cr):

- BUS 2035 - Content Marketing and Professional Networking 3 cr
- BUS 2320 - Creative Selling and Sales Management 3 cr
- BUS 3060 - Consumer Behavior 3 cr
- BUS 3210 - Advertising 3 cr
- BUS 3245 - Global Marketing 3 cr
- BUS 3270 - Data-Driven Marketing 3 cr
- BUS 3272 - Social Media Marketing 3 cr
- BUS 3290 - Sports Marketing 3 cr
- BUS 4030 - Marketing Research 3 cr
- BUS 4040 - Marketing Strategies 3 cr

(Total credits required: 18 cr)

## Graduate Degrees

### MS in Accounting

Master of Science in Accounting: [see the Graduate Catalog](#)

## Communication Department

*Department Chair: Professor Robert Gershon*

Students in Communication programs prepare for careers, graduate school, and private life in the media environment through a balance of theory and production at the program, course, and even class level. Students master knowledge and skills applicable to the wide breadth of the communication field as well as those particular to depth in one or more specific area. The following programs are offered in Communication: a Bachelor of Science degree in Communication with concentrations in Mass Media, Journalism, Public Relations, Digital Media, or Concentration by Contract; and an Associate of Science in Communication. A minor is also offered.

For more information please visit our website at [www.castleton.edu/communication/index.htm](http://www.castleton.edu/communication/index.htm)

## Bachelor's Degrees

### Communication: Concentration by Contract (BS.COM.CNT)

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration by Contract

The concentration by contract is designed to provide the student with a coherent body of knowledge and skills that cut across traditional intra- and interdisciplinary boundaries. Examples of such a concentration include Popular Culture Studies or American Studies, Arts Administration, and Photography.

Normally in their sophomore year, and always by the end of their junior year, Communication concentrators by contract, in conjunction with their advisors, will develop a proposal for their course of study. The proposal will be reviewed by the entire department and academic dean's office.

### Complete the following courses (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

and 15 additional credits of COM courses (15 cr)

plus 15 additional credits in contracted courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr  
and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

## Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Communication: Digital Media (BS.COM.DGM)

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Digital Media

Complete these courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr

- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr  
OR COM 2260 - Media and Society 3 cr

and complete these courses for the Concentration in Digital Media (15 cr):

- complete these three courses:
- COM 2220 - Web Content and Site Development 3 cr
  - COM 3120 - Multimedia 3 cr
  - COM 4010 - The Future of Communication 3 cr
- and complete two of these courses:
- ART 3130 - Web Graphics and Animation 3 cr
  - COM 1410 - Digital Photography I 3 cr OR ART 1410 - Digital Photography I 3 cr
  - COM 2221 - Graphic Design I 3 cr OR ART 2221 - Graphic Design I 3 cr
  - COM 2222 - Graphic Design II 3 cr OR ART 2222 - Graphic Design II 3 cr
  - COM 2510 - Graphic Arts Production 3 cr OR ART 2510 - Graphic Arts Production 3 cr

plus 15 additional credits of COM courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr  
and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## **Communication: Journalism (BS.COM.JOU)**

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

### **BS in Communication with a Concentration in Journalism**

Complete the following courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

and complete these courses for the Concentration in Journalism (15 cr):

- COM 2230 - News Gathering and Writing 3 cr
- COM 2270 - Newspaper Editing 3 cr
- COM 3010 - News Media Ethics and Law 3 cr
- COM 3060 - Feature Writing 3 cr
- COM 3780 - Special Topics in Journalism 3 cr

plus take 15 additional credits of COM courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr  
and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## **Communication: Media Studies (BS.COM.MST)**

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;

- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Media Studies

Complete the following courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

And complete these courses for the Concentration in Media Studies (15 cr):

complete all of these

- COM 1050 - Introduction to Popular Culture 3 cr
- COM 1150 - Introduction to Cinema Studies 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society, whichever has not been taken to fulfill the above section required of all COM majors

and two of these courses:

- COM 2160 - International Communication 3 cr
- COM 2330 - International Cinema 3 cr
- COM 2730 - Special Topics in Cinema Studies 3 cr
- COM 3050 - Media, Social Activism and Political Action 3 cr
- COM 3760 - Special Topics in Media Studies 3 cr
- COM 4010 - The Future of Communication 3 cr

Plus take 15 additional credits of COM courses (15 cr)

And in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr
- and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study



Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Communication: Public Relations (BS.COM.PRL)

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Public Relations

Complete these courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

and complete these courses for the Concentration in Public Relations (15 cr):

- COM 2150 - Public Relations 3 cr
- COM 2212 - Video Workshop II: News and Feature Production 3 cr
- COM 2220 - Web Content and Site Development 3 cr
- COM 2230 - News Gathering and Writing 3 cr
- COM 3050 - Media, Social Activism and Political Action 3 cr
- **OR** COM 3750 - Special Topics in Public Relations 3 cr

plus take 15 additional credits of COM courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr  
and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4820 - Practicum in Communication 1-3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Law Degree (CU/VLS 3+2)**

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

**Communication: Video/Film Production (BS.COM.VFP)**

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;

- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Video/Film Production

Complete the following courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society

And complete these courses for the Concentration in Video/Film Production (15 cr):

complete these three courses:

- COM 2212 - Video Workshop II: News and Feature Production 3 cr
- COM 3020 - Documentary Workshop 3 cr
- COM 4020 - Screen Drama Workshop 3 cr

and two of these courses:

- COM 1150 - Introduction to Cinema Studies 3 cr
- COM 2120 - Script Workshop I 3 cr
- COM 2130 - Experimental Cinema and Video 3 cr
- COM 2210 - Broadcast Performance 3 cr
- COM 2221 - Graphic Design I 3 cr
- COM 2240 - Video Magazine Workshop 3 cr
- COM 3120 - Multimedia 3 cr
- COM 3790 - Special Topics in Media Production 3 cr

Plus take 15 additional credits of COM courses (15 cr)

And in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr  
and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 credits required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Associate's Degrees**

### **Communication: Associates (AS.COM)**

Associate of Science graduates in Communication will be aware of the nature of the communication enterprise as a force in shaping social, economic, and political structure.

Complete the following:

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2170 - Radio Programming and Production 3 cr
- COM 2230 - News Gathering and Writing 3 cr
- COM 2260 - Media and Society 3 cr
- Plus 12 additional credits in COM 12 cr

(Total credits in Communication major: 30 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Minors**

## **Cinema Studies Minor (CNS)**

The Cinema Studies minor, which is offered by the Communication Department, is an 18-credit minor offering students cutting edge digital humanities approaches to exploring cinema as a nexus of the social, cultural, political, and economic spheres. This interdisciplinary program is designed around a core of classes in cinema studies, augmented by studies in related departments and programs.

Complete the following courses (9 cr):

- COM 1150 - Introduction to Cinema Studies 3 cr
- COM 2330 - International Cinema 3 cr
- COM 2730 - Special Topics in Cinema Studies 3 cr

And a minimum of 9 credits from the following (9 cr):

- ARH 3052 - History of Twentieth Century Art 3 cr
- ART 2130 - Experimental Cinema and Video 3 cr **OR** COM 2130 - Experimental Cinema and Video 3 cr
- ART 2301 - Photography I 3 cr
- COM 2120 - Script Workshop I 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- COM 2730 - Special Topics in Cinema Studies 3 cr (may be taken a maximum of two times for minor credit)
- COM 2970 - Directed Study in Cinema Studies 1-3 cr
- COM 3020 - Documentary Workshop 3 cr (has prerequisites not contained in the minor)
- COM 4020 - Screen Drama Workshop 3 cr (has prerequisites not contained in the minor)
- COM 4030 - Script Workshop II 3 cr
- COM 4970 - Directed Study in Cinema Studies 1-3 cr
- FLL 1110 - Film and Lit: Hispanic, French and Italian 3 cr
- HIS 2335 - Asia through Food and Film 3 cr
- PHI 3060 - Aesthetics 3 cr
- THA 3020 - Acting for the Camera 3 cr

Total credits required: 18 cr

## **Communication Minor (COM)**

This minor is offered by the Communications Department. Any student may earn a minor in Communication by taking 18 credits in Communication courses. The department recommends that students work with an advisor in the Communication Department to develop a sequential course of study and/or to determine a minor by contract.

## **Computer Information Systems**

*Coordinator: Scott Hanselman*

For more information please visit our website at [www.castleton.edu/business/cis.htm](http://www.castleton.edu/business/cis.htm)

## **Bachelor's Degrees**

### **Computer Information Systems/Business (BS.CIS.BUS)**

The purpose of the program is to prepare students for employment in the field of Information Systems. Students will have a broad-based business perspective, a solid foundation in critical thinking and analysis, the ability to design and create an information technology solution, and strong communication and team skills.

The required business courses help to prepare students to comprehend the concepts and language common to the business realm. This serves to enhance the student's understanding of the role that information systems play in the operations of all types of business organizations.

The programming component is designed to help students become proficient in computer programming in an Object-Oriented Programming environment. Students will be exposed to the key role that databases play in capturing, storage, processing, and reporting of information within an organization.

Students completing a Bachelor of Science in Computer Information Systems/Business will be proficient in:

- Analyzing information requirements and business processes in order to design, create, and modify system solutions to benefit the organization.
- Participating as team members in the planning, creation, and maintenance of an organization's technology infrastructure.
- Recognizing and using effective verbal and written communication skills.

#### **Complete the following Business Administration courses (18 cr):**

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- BUS 2370 - Business Communications 3 cr
- BUS 3230 - Financial Management 3 cr
- BUS 3250 - Organizational Development and Behavior 3 cr

#### **and the following Programming courses (18 cr):**

- CIS 2011 - Visual Basic Programming 3 cr
- CIS 2031 - C/C++ Programming I 3 cr
- CIS 2032 - C/C++ Programming II 3 cr
- CIS 3022 - Advanced Visual Basic 3 cr
- CIS 3040 - Databases 3 cr
- CIS 3045 - Advanced Database Concepts 3 cr

#### **and the following Information Technology courses (15 cr):**

- CIS 3410 - Foundations of Information Systems 3 cr
- BUS 4220 - Networking 3 cr
- BUS 4530 - Technical Project Management 3 cr
- CIS 4120 - Systems Analysis and Design 3 cr

- CIS 4045 - Information Security Management 3 cr

and complete an internship (3 cr):

- CIS 4810 - Internship in Computer Information Systems
- OR-
- BUS 4810 - Internship in Business

(Credits required for the major: 54 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Minors**

### **Computer Information Systems Minor (CIS)**

The minor in Computer Information Systems is offered by the Business Administration Department.

Complete the following courses (12 cr):

- BUS 1270 - Principles of Computer-Based Information Systems 3 cr
- CIS 2011 - Visual Basic Programming 3 cr
- CIS 3022 - Advanced Visual Basic 3 cr
- CIS 4120 - Systems Analysis and Design 3 cr

and complete two of the following courses (6 cr):

- BUS 4220 - Networking 3 cr
- CIS 2031 - C/C++ Programming I 3 cr
- CIS 2032 - C/C++ Programming II 3 cr
- CIS 3040 - Databases 3 cr
- CIS 3045 - Advanced Database Concepts 3 cr

Total credits required: 18 cr

## **Education Department**

*Department Chair: Assistant Professor Monica McEnerny*

The Education Department offers both graduate and undergraduate programs. The undergraduate program leads to licensure in Elementary Education or Secondary Education. All students may also add a Special Education Endorsement and a Middle Grades Endorsement.

The department has a long-standing commitment to the liberal education of teachers. The undergraduate program complements and integrates the liberal arts and sciences with a professional course sequence; all undergraduates wishing to become teachers must complete a liberal arts or science major as well as complete the requirements for one of the education licensure sequences. In addition, each student choosing to become a teacher is responsible for developing a portfolio. The portfolio is built during all semesters of the undergraduate experience. It will demonstrate individual learning and growth as well as how individual course work and field experiences work together to foster proficiency in meeting Vermont State regulations and standards.

Students interested in teaching art must choose Elementary or Secondary licensure. Students interested in teaching Spanish must choose Secondary licensure. In consultation with a liberal arts advisor in Art or Spanish and an Education advisor, you will have the opportunity to plan a major course of study that is designed to provide you with the content knowledge needed in teaching Art or teaching Spanish as a second language.

The Education Department faculty hold high expectations for their students. As a result of the teacher education program, students are expected to meet a variety of goals: an ability to demonstrate knowledge of teaching and learning processes, classroom planning and management strategies, working effectively with all students in inclusive classrooms, and appropriate assessment procedures. As a result of the liberal arts major and core requirements, students will also be expected to demonstrate depth of understanding in the liberal arts and sciences of their choosing.

Courses within the department and field experiences in the local schools focus on the knowledge, skills and understanding necessary to be successful in the contemporary school system. Classroom discussions and interactions among students foster group problem solving and individual reflection. Beyond the classroom, the department fosters a supportive and reflective climate through advising and sponsorship of student organizations.

Field clinical experiences are those in which the student becomes involved in a collaborative relationship in a school and/or community environment. They are an integral part of all programs. In the schools the student is expected to develop and play a variety of important roles: observer, helper, tutor, and ultimately teacher. The role becomes more complex as students advance in their program, which culminates in a semester long student teaching experience. A minimum of 80 scheduled hours of field experience is required prior to student teaching.

Teaching in the elementary and secondary schools requires a strong liberal arts background. At Castleton, students can develop their knowledge of the liberal arts disciplines through the general education requirements that pertain to all programs. In addition, elementary education majors must either possess or develop strong content knowledge across the four critical liberal arts areas addressed in the elementary classroom: English, history/social studies, mathematics, and science.

The Education Department collaborates with liberal arts and local K-12 faculty to offer an innovative program for prospective teachers. Opportunities for deep study in education occur early in the students' educational career as they are introduced to pedagogical practice and theory, as well as to the electronic Portfolio process that they will use throughout their program to record and assess their progress toward the goal of achieving teacher licensure.

Along the way, gateways will be used to assess teacher candidate progress through the program.

In their final year, students hone their pedagogical expertise through previously acquired content knowledge with extended opportunities both to work in local schools with teachers and to meet and discuss theory and practice in site-based seminars. Students will take EDU 4031 - Educational Collaborations in the semester before they undertake student teaching. This course will broaden and deepen the prospective teacher's understanding of teaching philosophies, theories, and practices. Prospective teachers will reconsider their curriculum thus far while they work:

- a. to extend their knowledge in the areas of literacy, learning theory, and inclusion; curriculum, instruction, and assessment; diversity, social justice, and service learning;
- b. to extend their skills, including reflection, inquiry, and action research; collaboration within the wider school community; classroom leadership; and c) to strengthen the professional dispositions required of excellent teachers. Prospective teachers will continue to work on their electronic portfolios, practice reflective and analytical writing, and heighten their commitment to the enterprise of teaching and learning. Students should expect to spend 180 hours in the field and an additional 120 hours in university classrooms.



During the final semester, interns registered for EDU 4871 and EDU 4872 will work full time in the local school setting with a mentor teacher alongside of colleagues from their Education and Liberal Arts program. EDU 4720, the Student Teaching Seminar will provide interns with a weekly opportunity to debrief that work as well as progress toward successful passage through the final gateway, licensure. In addition to the requirements for state licensure, students must earn a "meets standards" on the portfolio.

To be recommended for licensure the student must:

1. Complete all university and departmental course requirements.
2. Pass Both the Core Academic Skills Test for Educators and Praxis Subject Assessments test.
3. Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
4. Receive a grade of "B" or better in EDU 4871, EDU 4872 and a "Pass in EDU 4720.
5. Complete all coursework with a cumulative GPA of 3.0 and a GPA of 3.0 in Education courses.
6. Submit Licensure Portfolio and appropriate application materials for review by the Castleton Licensure Committee.

NOTE: A student may be advised to discontinue the student teaching experience at any time, if, in the professional judgment of the university supervisor, the Education Department chair, the cooperating teacher, and the Education/Liberal Arts faculty, the student does not possess the attitudes and competencies noted above.

For more information please visit our website at [www.castleton.edu/Education/Index.htm](http://www.castleton.edu/Education/Index.htm)

## Bachelor's Degrees

### Career and Technical Education (BAS.CTE)

**We are no longer accepting applications for this program.**

**We will close out the program when the currently matriculated students complete their degrees.**

This Bachelor's degree completion program is offered to candidates who have met the entrance requirements below. Prospective candidates working at any of Vermont's Career and Technical Education Centers can work with the Outreach and Professional Development Coordinator with the Vermont Career and Technical Education Director's Association and the Director of Career and Technical Teacher Education Program at Vermont Technical College to establish their readiness for the program.

Upon matriculation, students will (a) complete Castleton's General Education requirements, (b) take the courses listed below, which are designed to address critical areas of curriculum, instruction, assessment, and instructional pedagogy, and (c) culminate their work with a 6-credit Capstone project designed to allow them to exhibit their knowledge of the program's course content and their ability to apply the skills gained over the course of their three-year CTE and subsequent Castleton experiences.

Students must complete a minimum of 30 credits at Castleton and 122 credits overall to earn a bachelor's degree.

In keeping with the established standards of teacher preparation at Castleton University, students completing the Bachelor of Applied Science in Career and Technical Education will demonstrate their:

- appreciation for the importance of diverse populations;
- adaptation to emerging social, economic, and demographic patterns;
- skill in the use of technological tools to promote teaching and learning;
- use of data to make informed pedagogical decisions; and
- skill in critical thinking.
- knowledge and skills in the content area of his or her endorsement(s);
- understanding of how individuals learn and grow;

- recognition of multiple influences on students and schools: such as cultural, social, political, and economic factors;
- ability to implement, adapt, and revise, and, when necessary, create curriculum based on standards, knowledge of subject matter, and individual student needs and interests.
- ability to create a classroom climate that encourages respect for self and others;
- continued professional growth through a variety of approaches to improve professional practice; and
- ability to integrate current technologies in instruction, assessment, and evaluation.

## Entrance Requirements

1. Hold approved associates degree in occupational specialty field or complete a minimum of 60 credits through workshops, coursework and APL.
2. Complete the 24-credit CTE Teacher Prep Program earning the required ROPA approved credits.
  - EDU 2051, 2052, 2061, and 2062- Teaching Methods I and II – 12 cr
  - EDU 2115 -Issues and Trends in Technical Education- 3 cr
  - EDU 2135 -Instruction for Students with Special Needs- 3 cr
  - EDU 2710- Capstone – 1 cr
  - EDU 2802- Education Externship – 1 cr
  - EDU 3550- Technology in the Classroom – 1 cr
  - PSY 2110-Educational Psychology- 3 cr
3. Pass the state-approved teacher preparation exam as part of the Teacher Prep Program at CTE.
4. Candidates must be recommended for Level I license when the Teacher Prep Program is completed and be offered a contract for the next school year to continue in the program at Castleton.
5. Complete the application process for the Career and Technical Education completion program at Castleton.

## To earn the degree at Castleton:

### Complete the following courses

- EDU 4510 - Assessment of and for Learning in Career and Technical Education Classrooms **3 cr**
- EDU 4520 - Curriculum Management in Career and Technical Education **3 cr**
- EDU 4530 - Learning Styles and Diversity in Career and Technical Education Classrooms **3 cr**
- EDU 4540 - Instructional Practices and Tiered Interventions in Career and Technical Education **3 cr**
- EDU 4550 - Technology in Career and Technical Education **3 cr**
- EDU 4590 - Capstone Project **6 cr**

### Remaining credits

Students must complete a minimum of 30 credits at Castleton and 122 credits overall. Remaining credits may be earned by completion of unmet General Education requirements (see below) and/or completing these Education courses:

- EDU 4871 Directed Student Teaching I **6-9 cr** (concurrent prerequisite of EDU 4720 is waived based on previous experience)

and/or

- EDU 4872 Directed Student Teaching II **6-9 cr** (concurrent prerequisite of EDU 4720 is waived based on previous experience)

## Completing the university's Gen Ed requirements

Click [here](#) to review the Gen Ed requirements.

For those wishing to enter the Career and Technical Education (BAS.CTE) program, the General Education requirements can be met in a variety of ways:

- A number of the General Education requirements may have been satisfied if the prospective student has earned an associates degree from a Vermont State College.
- Some General Education requirements may have been satisfied through coursework completed as a part of the first 60 credits earned (workshops, coursework, Assessment of Prior Learning).
- Prospective students who have met all entrance requirements for this degree program can take the Castleton courses in CTE and courses designed to meet the remaining General Education requirements simultaneously.

## Multidisciplinary Studies (BA.MDS)

The Multidisciplinary Studies (MDS) major provides students with broad exposure to four key liberal arts fields: English, history/social sciences, mathematics, and science. While open to all students, the MDS major is particularly designed for students seeking to become elementary education teachers. (Such students must also complete the courses for Elementary Education Licensure.)

The MDS major is overseen by the Faculty Assembly Committee on Teacher Education.

Educational objectives:

1. Students will demonstrate knowledge of appropriate content in the areas of English Language Arts, particularly the conventions of written English and the dimensions of quality writing and types of writing, as well as a wide variety of quality, age-appropriate literature across genres, and strategies for textual analysis. Furthermore, students will practice appropriate pedagogy for teaching writing as well as textual analysis of literature.
2. Students will demonstrate knowledge of historical and social science content, concepts, and skills in the areas of historical thinking; history; cultural geography; diversity, unity, identity, and interdependence; and citizenship as delineated in current national professional standards.
3. Students will demonstrate knowledge of essential numeracy concepts and their development, as well as content in the areas of number and operations; algebra and functions; geometry in the areas of numbers and operations, geometry and measurement; and data analysis, statistics, and probability.
4. Students will demonstrate knowledge of scientific content, concepts and skills in the areas of development of students' scientific inquiry process; life sciences; physical sciences; Earth, environmental, and atmospheric sciences
5. Students will demonstrate content knowledge in depth for one of four liberal arts content areas.

*Note: For students seeking licensure, no courses for the MDS major may be taken on a pass/no pass basis.*

### I. Complete the requirements of the four content areas (English, History/Social Sciences, Mathematics, and Science):

English Requirements (12 cr):

Complete this course:

- ENG 2010 - Expository and Argumentative Writing 3 cr
- And complete THREE of these courses:
- ENG 1310 - Introduction to Literature (L) 3 cr
  - ENG 2411 - Nineteenth Century Children's Literature (L) 3 cr
  - ENG 2412 - Twentieth Century Children's Literature (L) 3 cr
  - ENG 3620 - Overview Of Children's Literature (L) 3 cr
  - ENG 3630 - Poetry for Children (L) 3 cr
  - ENG 3640 - Images of the Child in Literature (L) 3 cr
  - ENG 3650 - Art of Children's Book Illustration (L) 3 cr
  - ENG 3660 - Folk Tales (L) 3 cr
  - ENG 3690 - The English Language: Grammar 3 cr
  - ENG 3720 - Special Topics In Children's Literature (L) 3 cr

## History/Social Sciences requirements (12 cr):

Complete ONE of these courses:

- GEO 1060 - Fundamentals of Geography 3 cr
  - GEO 2020 - World Regional Geography 3 cr
- And complete:
- HIS 1125 - The Ancient World 3 cr
- And complete ONE of these courses:
- HIS 1215 - Survey of Early U.S. History 3 cr
  - HIS 1225 - Survey of Modern U.S. History 3 cr
- And complete ONE of these courses:
- POS 1020 - American Politics and Government 3 cr
  - POS 1030 - Comparative Politics and Government 3 cr

## Mathematics Requirements (12-13 cr):

Complete TWO of these courses:

- MAT 1531 - Calculus I 4 cr
  - MAT 2021 - Statistics I 3 cr
  - MAT 2022 - Statistics II 3 cr
  - MAT 2550 - Mathematics: A Cultural Perspective 3 cr
- And complete these two courses:
- MAT 3020 - Mathematics for Elementary Teachers 4 cr
  - MAT 4210 - Teachers as Researchers 2 cr

## Science Requirements (16 cr):

Complete 16 credits from the courses listed below.

At least 7 of the 16 credits must be chosen from the list of **Life Science** courses, and at least 7 of the 16 credits must be chosen from the list of **Physical Science** courses.

Life Science

- AHS 1010 - Contemporary Health Issues 3 cr

- BIO 1010 - Human Biology and Laboratory 4 cr
- BIO 1160 - Flora of Vermont 3-4 cr
- BIO 1270 - Horticulture of Medicinal Plants 3 cr
- BIO 1310 - Explorations in Biology 1 cr
- BIO 1320 - Tropical Diversity 4 cr
- BIO 2140 - Botany 3 cr
- BIO 2035 - Animal Diversity 4 cr
- Physical Science
- CHE 1311 - Chemistry in the Classroom 4 cr
- GEO 2220 - Weather and Climate 3 cr
- GEY 1030 - Dynamic Earth 4 cr
- GEY 1040 - Environmental Geology 4 cr
- GEY 1050 - The Earth through Time 4 cr
- PHY 1110 - Introduction to Astronomy 3 cr
- PHY 1140 - Astronomy: Exploring the Universe 4 cr
- PHY 1150 - Physics for Elementary Teachers 4 cr

II. And complete a Concentration in one of these five content areas (12 cr):

### Concentration in English

Complete 12 credits in ENG courses, approved by the chair of the English Department.

### Concentration in HGEP

*Students wishing to concentrate in HGEP are required to submit a signed contract to the Registrar by the end of their sophomore year. This contract must be approved by both the student's HGEP advisor and the chair of the HGEP Department.*

Complete ONE of these courses:

- ECO 1010 - Economics and Society 3 cr
- ECO 1040 - Global Economic Issues 3 cr

And complete this course:

- HIS 2070 - Vermont History 3 cr

And complete two Electives:

Complete two elective courses at the 3000 level or above in History, Geography, Economics or Political Science. The two courses must be in different disciplines. (HIS 2335 - Asia through Food and Film, may be substituted for one 3000-level class.)

### Concentration in Mathematics

Complete 12 credits in MAT courses, approved by the chair of the Mathematics Department.

### Concentration in Science

Complete 12 additional credits in science chosen from the Life Science and Physical Science lists above.

## Concentration in Special Education Social Science

- PSY 2210 - Applied Behavior Analysis I 3 cr
- PSY 3060 - Child Psychopathology 3 cr
- PSY 4020 - Psychological Testing 3 cr
- SOC 1030 - Social Problems 3 cr

(Credits required for the major: 64-65 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Licensures

### Elementary Education Licensure

Complete the following courses (35 cr):

- EDU 1012 - Education Inquiries 3 cr
  - EDU 2011 - Reading/Writing: Elementary Classroom 3
  - EDU 2012 - Special Education: Elementary Classroom 3 cr
  - EDU 3011 - Elementary Pedagogy 3 cr
  - EDU 4031 - Educational Collaborations 5 cr
  - EDU 4720 - Student Teaching Seminar 3 cr
  - EDU 4871 - Directed Student Teaching I 6 cr
  - EDU 4872 - Directed Student Teaching II 6 cr
- select one of these:
- PSY 1050 - Human Growth and Development 3 cr
  - PSY 2110 - Educational Psychology 3 cr
  - PSY 3265 - Child and Adolescent Development 3 cr

## Satisfy the three Gateways

*There are three Gateways required for successful completion of the Elementary program.*

### Gateway 1

*It is expected that most students will complete Gateway 1 by the end of their second semester.*

- Receive a positive recommendation encouraging continuation in the program.
- Earn a cumulative GPA of 3.0.
- Select Education and liberal arts faculty advisors.
- Identify a liberal arts major.
- Complete and submit the Change of Academic Program (CAP).
- Make progress toward completion of the General Education Program.

- Pass the Core Academic Skills Test for Educators.

### **Gateway 2**

*Upon completion of the General Education requirements and a liberal arts major, students must satisfy the requirements of Gateway 2.*

- Pass the first section of the electronic portfolio.
- Earn a cumulative GPA of 3.0.
- Recommended to take the Praxis Subject Assessments test. (Note: The Education Department cannot make a recommendation for licensure if you have not passed the Praxis Subject Assessments test)
- Receive a recommendation from Education and liberal arts faculty to continue in the program.

### **Gateway 3**

*To be recommended for licensure to teach in Vermont the student must:*

- Complete all University and departmental course requirements.
- Pass Both the Core Academic Skills Test for Educators and Praxis Subject Assessments test.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Receive a grade of "B" or better in EDU 4871, EDU 4872 and a "Pass" in EDU 4720.
- Complete all coursework with a cumulative GPA of 3.0.
- Submit Licensure Portfolio and appropriate application materials for review by the Castleton Licensure Committee.

## **Endorsements**

Students seeking Elementary Licensure may also add these Endorsements:

### Middle Grades Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students in grades 5-9. (Click here for details.)

### Special Education Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students with disabilities. (Click here for details.)

*(Note that Endorsement courses can be woven through the four years of undergraduate coursework but may require students to take an additional semester or two to finish.)*

## **Secondary Education Licensure**

Complete the following courses (35 cr):

- EDU 1012 - Education Inquiries **3 cr**
- EDU 2031 - Disciplinary Literacies: Secondary Classroom **3 cr**
- EDU 2032 - Special Education: Secondary Classroom **3 cr**
- EDU 3012 - Secondary Pedagogy **3 cr**
- EDU 4031 - Educational Collaborations **5 cr**

- EDU 4720 - Student Teaching Seminar 3 cr
- EDU 4871 - Directed Student Teaching I 6 cr
- EDU 4872 - Directed Student Teaching II 6 cr  
select one of these
- PSY 1050 - Human Growth and Development 3 cr
- PSY 2110 - Educational Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

## Satisfy the three Gateways

*There are three Gateways required for successful completion of the Elementary program.*

### Gateway 1

*It is expected that most students will complete Gateway 1 by the end of their second semester.*

- Receive a positive recommendation encouraging continuation in the program.
- Earn a cumulative GPA of 3.0.
- Select Education and liberal arts faculty advisors.
- Identify a liberal arts major.
- Complete and submit the Change of Academic Program (CAP).
- Make progress toward completion of the General Education Program.
- Pass the Core Academic Skills Test for Educators.

### Gateway 2

*Upon completion of the General Education requirements and a liberal arts major, students must satisfy the requirements of Gateway 2.*

- Pass the first section of the electronic portfolio.
- Earn a cumulative GPA of 3.0.
- Recommended to take the Praxis Subject Assessments test. (Note: The Education Department cannot make a recommendation for licensure if you have not passed the Praxis Subject Assessments test)
- Receive a recommendation from Education and liberal arts faculty to continue in the program.

### Gateway 3

*To be recommended for licensure to teach in Vermont the student must:*

- Complete all University and departmental course requirements.
- Pass Both the Core Academic Skills Test for Educators and Praxis Subject Assessments test.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Receive a grade of "B" or better in EDU 4871, EDU 4872 and a "Pass" in EDU 4720.
- Complete all coursework with a cumulative GPA of 3.0.
- Submit Licensure Portfolio and appropriate application materials for review by the Castleton Licensure Committee.

## Endorsements

Students seeking Elementary Licensure may also add these Endorsements:



### Middle Grades Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students in grades 5-9. (Click here for details.)

### Special Education Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students with disabilities. (Click here for details.)

*(Note that Endorsement courses can be woven through the four years of undergraduate coursework but may require students to take an additional semester or two to finish.)*

## **Endorsements**

### **Middle Grades Endorsement**

The Middle Grades Endorsement is for students seeking Elementary or Secondary Licensure who wish to add additional certification specific to teaching and learning in the Middle Grades (5-9).

The endorsement will ensure that students understand the nature and needs, organization, curriculum, and embedded literacy practices connected to young adolescents. This endorsement is highly encouraged by middle grades principals across the state and country.

#### **Complete the following courses (12 cr):**

- EDU 2610 - Middle Grades Curriculum 3 cr
- EDU 3620 - Middle Grades Organization 3 cr
- EDU 3630 - Middle Grades Embedded Literacy 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

### **Special Education Endorsement**

The Special Education Endorsement is available for students seeking Elementary or Secondary Licensure who wish to add additional certification specific to teaching and learning in Special Education.

#### **Complete the following courses (13 cr):**

- EDU 2140 - Cognitive Differences and Emotional Challenges 3 cr
- EDU 3130 - Learning Differences and Attention Difficulties 3 cr
- EDU 3370 - Models of Assessment and Intervention in Special Education 4 cr
- EDU 3380 - Collaboration and Special Education Law 3 cr

### **Special Education Social Science Concentration**

Elementary and Secondary students are strongly advised to add a concentration to their Special Education Endorsement by adding the following courses (12 cr):

- PSY 2210 - Applied Behavior Analysis I 3 cr
- PSY 3060 - Child Psychopathology 3 cr
- PSY 4020 - Psychological Testing 3 cr
- SOC 1030 - Social Problems 3 cr

*Note that Elementary Special Education students may elect this group of courses as their Multidisciplinary Concentration.*

## **Graduate Degrees**

### **MA in Education: Curriculum & Instruction: Applied Behavior Analysis**

Master of Arts in Education: Curriculum and Instruction: Applied Behavior Analysis: **see the Graduate Catalog**

### **MA in Education: Curriculum and Instruction**

Master of Arts in Education: Curriculum and Instruction: **see the Graduate Catalog**

### **MA in Education: Educational Leadership (School Principal Licensure)**

Master of Arts in Educational Leadership: **see the Graduate Catalog**

### **MA in Education: Special Education**

Master of Arts in Education: Special Education: **see the Graduate Catalog**

### **MA in Education: Specialization in Mathematics**

Master of Arts in Education: Specialization in Mathematics: **see the Graduate Catalog**

## **English Department**

*Department Chair: Associate Professor Andrew Alexander*

*Coordinator of Philosophy Program: Associate Professor Brendan Lalor*

*Coordinator of World Languages Program: Professor Ana Maria Alfaro Alexander*

The English Department sponsors the Bachelor of Arts degree in English, with an American Literature concentration, a Children's Literature concentration, a World Literature concentration, and a concentration by contract; Honors in English; the Bachelor of Arts degree in Spanish Language and Literature; the Bachelor of Arts degree in Spanish for Business; the Bachelor of Arts degree in Philosophy; and minors in English, Writing, Philosophy, and Spanish Studies. (See World Languages and Philosophy.)

Students who complete the Bachelor of Arts degree in English will: <sup>1</sup> <sub>SEP</sub>

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;<sup>{L}</sup><sub>{SEP}</sub>
3. understand how accomplished writers create form, effect, and influence;<sup>{L}</sup><sub>{SEP}</sub>
4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all English majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

For more information please visit our website at [www.castleton.edu/Literature/index.htm](http://www.castleton.edu/Literature/index.htm)

## **Bachelor's Degrees**

### **English: American Literature (BA.ENG.AMR)**

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;
4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all English majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

### **BA in Literature with a Concentration in American Literature**

Complete the following courses (27 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

and complete 1 of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

and complete 15 credits selected from:

- ENG 3520 - American Poetry (L) 3 cr
- ENG 3530 - American Novel (L) 3 cr
- ENG 3550 - American Short Fiction (L) 3 cr
- ENG 3560 - American Drama (L) 3 cr
- ENG 3570 - American Literary Movements (L) 3 cr
- ENG 3580 - African American Literature (L) 3 cr
- ENG 3600 - American Literary Careers (L) 3 cr
- ENG 3610 - Women Writers (L) 3 cr

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Law Degree (CU/VLS 3+2)**

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

**English: Children's Literature (BA.ENG.CHL)**

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;
4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all English majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

**BA in Literature with a Concentration in Children's Literature**

Complete the following courses (27 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 2411 - Nineteenth Century Children's Literature (L) 3 cr

- ENG 2412 - Twentieth Century Children's Literature (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

and complete 1 of these courses (3 cr):

- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr

and complete 1 of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

and complete 12 credits selected from:

- ENG 3180 - Lyric Poetry (L) 3 cr
- ENG 3230 - Asian Literature 3 cr
- ENG 3620 - Overview Of Children's Literature (L) 3 cr
- ENG 3630 - Poetry for Children (L) 3 cr
- ENG 3640 - Images of the Child in Literature (L) 3 cr
- ENG 3650 - Art of Children's Book Illustration (L) 3 cr
- ENG 3660 - Folk Tales (L) 3 cr
- ENG 3720 - Special Topics In Children's Literature (L) 3 cr

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## English: Concentration by Contract (BA.ENG.CNT)

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;
4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all Literature majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

## BA in English with a Concentration by Contract

English majors may design individual plans for concentration study, completing 18 credit hours of coursework from among regularly offered courses in American Literature, Children's Literature, World Literature, and the Minor in Writing, as well as from independent studies and internships. They must consult with one or more English department faculty members as they design those plans. Such plans must demonstrate a coherent purpose—such as study in fiction, poetry, drama, or writing—and may proceed only by written contract approved by the department.

English majors who undertake a concentration by contract and who hope to teach theater must complete American Drama, Greek Tragedy, and the second Shakespeare course along with an additional 9 credit hours from among the regularly offered courses mentioned in the previous paragraph. They must also complete a Minor in Theater Education.

### Complete the following courses (21 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

### and complete one of these courses (3 cr):

- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr

### and complete one of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

### and complete a self-designed concentration of 18 credits

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

### English: Honors

Honors in English provides exceptional English majors the occasion to engage in sustained scholarly endeavor, to work under the careful guidance of departmental faculty, to produce an honors thesis or equivalent, and to be recognized for their achievements.

Students who wish to become candidates for Honors in English must meet these preliminary requirements:

1. Make formal application to the English Department chair at the end of sophomore or the beginning of junior year.
2. Attain a cumulative GPA of 3.5 or better in English and 3.0 or better overall by the time of application.
3. Earn a recommendation of candidacy from the department.

Once recommended, students must meet the requirements for the Bachelors of Arts Degree in English (see English: American Literature (BA.ENG.AMR), or English: Children's Literature (BA.ENG.CHL), or English: World Literature (BA.ENG.WLD), or English: Concentration by Contract (BA.ENG.CNT), and these additional requirements:

1. Complete ENG 4930 - Honors Thesis.
2. Produce an honors thesis or equivalent with guidance from a department honors committee.
3. Make a public presentation about the honors thesis or equivalent.
4. Attain a final cumulative GPA of 3.5 or better in English and 3.0 or better overall.
5. Earn an honors recommendation from the department. The designation "Honors in English" will appear on student transcripts.

### Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

### English: World Literature (BA.ENG.WLD)

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;

4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all English majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

## BA in Literature with a Concentration in World Literature

Complete the following courses (27 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2161 - World Literature through Renaissance (L) 3 cr
- ENG 2162 - World Literature from Enlightenment (L) 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

and complete one of these courses (3 cr):

- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr

and complete one of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

and complete 12 credits selected from:

- ENG 3170 - Epic Poetry (L) 3 cr
- ENG 3180 - Lyric Poetry (L) 3 cr
- ENG 3210 - Greek Tragedy (L) 3 cr
- ENG 3220 - World Fiction (L) 3 cr
- ENG 3230 - Asian Literature 3 cr
- ENG 3290 - Studies in World Literature (L) 3 cr
- ENG 3310 - Dante (L) 3 cr
- ENG 3610 - Women Writers (L) 3 cr
- ENG 3660 - Folk Tales (L) 3 cr
- Any appropriate 3000-level Modern Foreign Language literature course

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass



## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Recommendation

Intermediate proficiency in a foreign language (i.e. successful completion of two years of a foreign language at the university level) is recommended.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Minors

### English Minor (ENG)

This minor is offered by the English Department.

Students can earn a minor in English by completing 18 credits of English courses beyond:

- ENG 1061 - English Composition 3 cr
- ENG 1070 - Effective Speaking 3 cr
- ENG 2260 - Touchstones of Western Literature (L) 3 cr

### Writing Minor (WRI)

The minor in writing offers students practice at a variety of writing so that they can prepare for writing as a career or writing in their careers. Students can earn a minor in writing by completing 18 credits from the courses listed below. Courses completed for the minor cannot also be counted toward major requirements in other fields. Decisions about adding and dropping courses from the list, about substituting one course for another, and about the possibilities for independent study rest with the English Department, which sponsors this minor and consults with other departments that offer or wish to offer courses within the minor.

Complete 18 credits selected from:

- BUS 2370 - Business Communications 3 cr
- COM 3060 - Feature Writing 3 cr
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2101 - Creative Writing 3 cr
- ENG 3060 - Technical and Professional Writing 3 cr

- ENG 3070 - Writing Non-Fiction 3 cr
- ENG 3750 - Special Topics in Writing 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4040 - Advanced Creative Writing 3 cr

## **Health, Human Movement, and Sport Department**

*Department Chair: Assistant Professor Thomas Geisler*

*Coordinator of Athletic Training Program: Professor Reese Barber*

*Coordinator of Health Education: Assistant Professor Katy Culpo*

*Coordinator of Practice in Teaching Physical Education Program: Associate Professor: Lisa Pleban*

The Department of Health, Human Movement, & Sport offers Bachelor of Science degrees in Athletic Training, in Sports Administration, and in Practice of Physical Education with concentrations in Elementary and Secondary Teaching (with or without licensure requirements).

For more information please visit our website at [www.castleton.edu/physicaleducation/Index.htm](http://www.castleton.edu/physicaleducation/Index.htm)

### **Bachelor's Degrees**

#### **Athletic Training (BS.ATR)**

This program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE), which allows students to take the Board of Certification (BOC) Examination. After successful completion of the BOC examination, an individual will hold the credential of a certified athletic trainer (ATC). Students should make formal application to the Athletic Training (AT) Program through the Director of Athletic Training during the spring semester of their first year. The selection criteria are posted on the Castleton Athletic Training web site, and are also explained in AHS 1060 - Introduction to the Athletic Training Profession. Enrollment in this program is limited and merely completing the application process does not guarantee admission into the program. Once accepted into the program, students must complete six semesters of clinical field experiences working under the direct supervision of a preceptor at Castleton or an approved site. Any student may take courses within the program; however only students formally accepted into the AT Program may serve as athletic training students and participate in the clinical field experience.

Transfer students must follow the same application process and course sequence as traditional students and should meet with the Director of the AT Program early in the admissions process. The Director must approve the transfer of athletic training content courses. The Reapplication and Transfer Policy is available on the Castleton AT web site. Students must meet minimum health and technical standard requirements to be eligible to participate in the AT Program. The health and technical standards can be found in the AT Program Application Materials, which are available on the Castleton AT web site. In addition, once accepted into the AT Program, students must meet minimum academic and clinical retention requirements. These requirements are outlined in the AT Program Student Handbook which is available in electronic form on the web site. The clinical field experience requires travel to off-campus sites that would necessitate the use of a vehicle and involve associated travel expenses. Additional program expenses include course fees on all clinical courses.

#### **Athletic Training Education Mission Statement**

The mission of the CAATE- accredited AT Program at Castleton is to provide a comprehensive and progressive academic and clinical education experience for students. This experience at Castleton will prepare students to pass the Board of Certification (BOC) examination and achieve entry level employment in the field of Athletic Training. The AT Program will provide formal instruction and clinical training in the following content areas:

- **Evidence-Based Practice**
- **Clinical Examination and Diagnosis**
- **Therapeutic Interventions**
- **Psychosocial Strategies and Referral**
- **Prevention and Health Promotion**
- **Acute Care of Injury and Illness**
- **Health Care Administration**
- **Professional Development and Responsibility**

The AT Program accepts the overall mission of Castleton to provide the opportunity for intellectual and personal growth of students through excellence in teaching, close student-faculty interaction, numerous opportunities for out of classroom learning, and an active and supportive campus community. The AT Program strives to prepare students for meaningful careers, further academic pursuits, and productive citizenship.

## **Athletic Training Program Goals**

1. Students will critically apply content knowledge to real world situations and tasks.
2. Students will demonstrate professional responsibility and ethical behavior relevant to the field of athletic training.
3. Students will demonstrate competency and clinical proficiency in the five domains of athletic training.
4. Students will secure appropriate employment in Athletic Training or a related field, or gain admission to a graduate program of study.
5. The AT Program will provide high quality didactic and clinical instruction and learning opportunities to the students.

## **Athletic Training Program Objectives**

1. Students will demonstrate effective clinical application of athletic training skills learned in didactic coursework.
2. Students will demonstrate adherence to the core foundational behaviors and professional attributes of health care providers.
3. The annual 1st time pass rate for the BOC examination for Castleton students will be at least 10% above the national average.
4. Annual assessment of program graduates will reveal at least 90% of our graduates secure appropriate employment in AT or a related field, or gain admission to a graduate program of study.
5. The AT Program will continually assess didactic and clinical education instruction and opportunities.

## **Complete the following courses (74 cr):**

(Note that some courses also fulfill General Education requirements)

- AHS 1010 - Contemporary Health Issues **3 cr**
- AHS 1060 - Introduction to the Athletic Training Profession **2 cr \***
- AHS 2151 - Evaluation and Management of Injuries to the Lower Extremity **3 cr \***
- AHS 2152 - Evaluation and Management of Injuries to the Upper Extremity **3 cr \***

- AHS 2160 - Anatomical Aspects of Sports Medicine 3 cr \*
- AHS 2170 - Strength Training Principles 2 cr
- AHS 2510 - Therapeutic Interventions I 3 cr \*
- AHS 2821 - Athletic Training Clinical I 2 cr
- AHS 2840 - Practicum in Athletic Training 2 cr
- AHS 3120 - Kinesiology 3 cr
- AHS 3140 - Administration of Athletic Training and Sports Medicine Programs 3 cr \*
- AHS 3150 - Physiology of Exercise 4 cr
- AHS 3510 - Therapeutic Interventions II 3 cr \*
- AHS 3811 - Evaluation and Management of Injuries to the Head, Neck, and Trunk 2 cr \*
- AHS 3813 - Pharmacology and General Medical Conditions 2 cr \*
- AHS 3822 - Athletic Training Clinical II 2 cr
- AHS 3823 - Athletic Training Clinical III 2 cr
- AHS 4160 - Clinical Exercise Testing and Prescription 4 cr
- AHS 4620 - Senior Seminar in Athletic Training 2 cr \*
- AHS 4824 - Athletic Training Clinical IV 2 cr
- AHS 4825 - Athletic Training Clinical V 2 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr \*
- PED 4020 - Applied Nutrition and Weight Control 3 cr \*
- PED 4910 - Senior Thesis 3 cr

\*Courses requiring minimum grade of B-

## Note:

Prior to graduation, students must show competency in swimming.

## The following courses are strongly recommended:

- BIO 3240 - Advanced Human Physiology 3 cr
- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- PHY 1051 - General Physics I 4 cr
- PHY 1052 - General Physics II 4 cr

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Health Education (BS.HED)

The Department of Health, Human Movement, & Sport offers the Bachelor of Science degree in Health Education (BS.HED). Health educators assist individuals and communities in promoting positive health behaviors. They have

specialized skills in planning, implementing and evaluating community programs that focus on a variety of negative health issues.

Students completing the baccalaureate degree in Health Education will demonstrate:

- The ability to organize, develop, implement, and evaluate a comprehensive health education program (Pre-K-12) that includes the following Vermont health core concept areas: Alcohol, Tobacco, and Other Drugs; Family, Social, and Sexual Health; Mental and Emotional Health; Nutrition and Physical Activity; Personal Health and Wellness; and Violence and Injury Prevention.
- The ability to develop and implement an assessment plan consistent with national and/state standards.
- The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

## Complete these courses (44 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2150 - Designs for Fitness 3 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- HED 3030 - Health Behavior Theory 3 cr
- PED 1015 - Introduction to Health and Physical Education 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2370 - Community Health 3 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- SWK 2020 - Family Violence 3 cr
- SWK 2030 - Human Sexuality 3 cr
- And take one of the following:
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 3040 - Psychological Aspects of Exercise 3 cr
- And take one of the following:
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## And consider pursuing a concentration

Students majoring in Health Education are encouraged to further their professional skills and knowledge by pursuing one of these Concentrations:

- The Concentration in Community Health Education prepares students for careers in non-school health settings such as public health departments, hospitals, work site health promotion, and non-profit community agencies. This program prepares students to take the community Health Education Specialist (CHES) exam.
- The Concentration in School Health Education prepares pre-service teacher candidates to be certified to teach health education in public schools. Graduates also find employment in other health education venues such as community health and safety agencies.

# **Health Education: Community Health Education (BS.HED.CED)**

The Department of Health, Human Movement, & Sport offers the Bachelor of Science degree in Health Education (BS.HED). Health educators assist individuals and communities in promoting positive health behaviors. They have specialized skills in planning, implementing and evaluating community programs that focus on a variety of negative health issues.

Students majoring in Health Education are encouraged to further their professional skills and knowledge by pursuing either the Concentration in School Health Education or the Concentration in Community Health Education.

Students completing the baccalaureate degree in Health Education will demonstrate:

- The ability to organize, develop, implement, and evaluate a comprehensive health education program (Pre-K-12) that includes the following Vermont health core concept areas: Alcohol, Tobacco, and Other Drugs; Family, Social, and Sexual Health; Mental and Emotional Health; Nutrition and Physical Activity; Personal Health and Wellness; and Violence and Injury Prevention.
- The ability to develop and implement an assessment plan consistent with national and/state standards.
- The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

## **BS in Health Education with a Concentration in Community Health Education**

The Community Health Education concentration emphasizes the Seven Areas of Responsibility for a Community Health Educator. The concentration prepares students for careers in public or private health agencies, hospitals, health clinics, non-governmental health agencies, and in business and industry.

Courses emphasize administrative issues; health promotion skill-building; program planning, implementation and evaluation; and marketing strategies. Students learn how to prepare written materials as well as electronic media presentations for mass audiences.

Upon graduation, students may take the Certified Health Education Specialist (CHES) examination (see more about CHES below).

### **Complete these courses required of all Health Ed majors (44 cr):**

- AHS 1010 - Contemporary Health Issues **3 cr**
- AHS 2030 - Drug and Alcohol Curriculum **3 cr**
- AHS 2150 - Designs for Fitness **3 cr**
- BIO 2011 - Human Anatomy and Physiology I **4 cr**
- BIO 2012 - Human Anatomy and Physiology II **4 cr**
- HED 3030 - Health Behavior Theory **3 cr**
- PED 1015 - Introduction to Health and Physical Education **3 cr**
- PED 2160 - Emergency Care and Personal Safety **3 cr**
- PED 2370 - Community Health **3 cr**
- PED 4020 - Applied Nutrition and Weight Control **3 cr**
- SWK 2020 - Family Violence **3 cr**
- SWK 2030 - Human Sexuality **3 cr**

And take one of the following:

- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 3040 - Psychological Aspects of Exercise 3 cr

And take one of the following:

- PSY 1050 - Human Growth and Development 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

and complete these courses for the Community Health Education concentration (18-27 cr):

- HED 2310 - Health Education Methods 3 cr
- HED 3051 - Community Health Education I 3 cr
- HED 4052 - Community Health Education II 3 cr
- HED 4810 - Internship in Community Health Education 3-12 cr
- MAT 2021 - Statistics I 3 cr

And take one of the following:

- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr

(Total health education credits required for BS.HED.CED: 62-71 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## CHES

The field of health education has established a national credentialing certificate called the **Certified Health Education Specialist** (CHES). It is a voluntary credentialing process that is generally not required as a condition of employment. However, we recommend that community health educators and students obtain certification, as the CHES certificate conveys additional standards of accomplishment that may contribute to one's prospects for getting hired. To obtain such a certificate, the National Commission for Health Education Credentialing, Inc. (NCHEC) administers a written exam several times a year at various locations throughout the country. Once certified, CHES-health educators are required to obtain continuing education credits to maintain the certification. For further information about the CHES process, visit the National Commission for Health Education Credentialing, Inc. website.

## Health Education: School Health Education (BS.HED.ESE)

The Department of Health, Human Movement, & Sport offers the Bachelor of Science degree in Health Education (BS.HED). Health educators assist individuals and communities in promoting positive health behaviors. They have specialized skills in planning, implementing and evaluating community programs that focus on a variety of negative health issues.

Students completing the baccalaureate degree in Health Education will demonstrate:

- The ability to organize, develop, implement, and evaluate a comprehensive health education program (Pre-K-12) that includes the following Vermont health core concept areas: Alcohol, Tobacco, and Other Drugs;

- Family, Social, and Sexual Health; Mental and Emotional Health; Nutrition and Physical Activity; Personal Health and Wellness; and Violence and Injury Prevention.
- The ability to develop and implement an assessment plan consistent with national and/state standards.
  - The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

## BS in Health Education with a Concentration in School Health Education

The concentration in School Health Education prepares students for Vermont Agency of Education Level I Teacher Licensure in Health Education PreK-12. The concentration offers field experiences in local schools that focus on the skill, knowledge, and understanding necessary to be successful in contemporary educational settings. The department is strongly committed to a standards-based approach with high expectations for students' effort, achievement, and behavior.

Students completing this program are expected to demonstrate skills, including, but not limited to:

1. The ability to organize, develop, implement, and evaluate a comprehensive health education program (pre K-12 curriculum) that includes the following Vermont health core concept areas: alcohol, tobacco, and other drugs; family, social, and sexual health; mental and emotional health; nutrition and physical activity; personal health and wellness; and violence and injury prevention.
2. The ability to develop and implement an assessment plan consistent with national and state standards.
3. The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

## Complete these courses required of all Health Education majors (44 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2150 - Designs for Fitness 3 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- HED 3030 - Health Behavior Theory 3 cr
- PED 1015 - Introduction to Health and Physical Education 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2370 - Community Health 3 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- SWK 2020 - Family Violence 3 cr
- SWK 2030 - Human Sexuality 3 cr
- And take one of the following:
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 3040 - Psychological Aspects of Exercise 3 cr
- And take one of the following:
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr



and complete these courses for the School Health Education concentration (28 cr):

- EDU 2110 - Introduction to Exceptional Populations 3 cr
- HED 2310 - Health Education Methods 3 cr
- PED 2420 - Foundations of Teaching Health and Physical Education 3 cr
- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr
- HED 4510 - Seminar in Teaching Health Education 1 cr
- HED 4801 - Directed Student Teaching in Health Education I 6 cr
- HED 4802 - Directed Student Teaching in Health Education II 6 cr

(Total health education credits required for BS.HED.ESE: 72 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Students seeking licensure

Students seeking licensure are responsible for developing a portfolio throughout their undergraduate experience demonstrating individual learning and growth as well as the ways in which the individual course work and field experiences foster proficiency in meeting the Vermont standards for teacher preparation. Integral field experiences ensure that the student becomes part of a collaborative relationship in a school setting. Field experiences become more complex as students advance in the program, culminating in a semester-long student teaching experience. A minimum of 80 scheduled hours of field experience is required prior to student teaching.

Students seeking the BS.HED.ESE must pass through Gateways I and II in order to qualify for student teaching.

### Requirements for Gateway I include:

- Receive a positive recommendation encouraging continuation in the program;
- Earn a cumulative GPA of 2.75;
- Earn a minimum within the major GPA of 2.75;
- Make progress towards completion of the General Education Program;
- Submit electronic portfolio evidence completed in PED 2420 and HED 2310 that demonstrates progress in the student's understanding of an effective teaching and learning environment and evidence of a commitment to one's personal development as a future professional;
- Pass the Praxis Core Academic Skills Test for Educators or meet the alternative SAT score requirements.

Following completion of Gateway I, emphasis will be on completing the requirements of the school health education major track as well as honing pedagogical expertise in the field and classroom. Prospective teacher candidates will also continue to build their electronic portfolios documenting an understanding of the central connections between content and pedagogy.

### Requirements for Gateway II include:

- Complete the department's application to student teach the semester before enrolling in student teaching;
- Pass the first portion of their electronic portfolio, which includes evidence indicated by the Department of Health, Human Movement, & Sport;

- Have completed all health education major and general education coursework or obtain permission from the Teacher Education Program Coordinator
- Earn a cumulative GPA of 3.0 and earn a GPA of 3.0 within the health education major or written certification of intellectual competence by an Academic Dean;
- Receive a recommendation from members of the faculty to continue in the teacher education program.
- Through related coursework, complete a minimum of 80 hours of supervised field experience;
- Pass the ETS Praxis II examination in Health Education content knowledge.

Upon completion of Health Education Gateway II, students may be accepted into the student teaching practicum.

#### Teacher Licensure (preK-12):

To be recommended for licensure by the State of Vermont, a student must:

- Successfully complete and graduate from an approved program.
- Receive a grade of "B" or better in Student Teaching I and Student Teaching II and a "pass" in HED 4510.
- Maintain a GPA of 3.0 and a B average (GPA of 3.0) in the field of major studies.
- Meet the required standard for the licensure portfolio.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Pass the Praxis II examination in health education content knowledge.

Students wishing to work towards teacher licensure in preK-12 Health Education must apply and be accepted into Health Education Gateway II.

## **Practice in Physical Education (BS.PPE/BS.PPE.ESE)**

The Department of Health, Human Movement, & Sport offers the degree in the practice of Physical Education with concentrations in elementary and secondary education (BS.PPE.ESE) or without licensure (BS.PPE). The department makes a strong commitment towards a standards-based approach to the development of beginning educators.

The Department of Health, Human Movement, & Sport holds high expectations for their students' effort and behavior. As a result of this teacher educator program, students are expected to demonstrate a variety of goals, including, but not limited to;

1. The ability to organize, develop, implement, and evaluate a physical education program (Pre-K-12 curriculum, athletic programs, health fitness programs)
2. The recognition and incorporation of safety, risk management, and liability considerations in physical education programs.
3. The ability to develop and implement an assessment plan consistent with national and/or state standards.
4. The ability to develop accommodations for physical education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

In addition, each student choosing to become a teacher is responsible for developing a portfolio. The portfolio is constructed during all semesters of the undergraduate experience. The portfolio will demonstrate individual learning and growth as well as how the individual course work and field experiences work together to foster proficiency in meeting Vermont State regulations and standards for teacher preparation.

Courses within the department and at field experiences in local schools and community organizations focus on the skill, knowledge, and understanding necessary to be successful in contemporary educational settings. Field practical experiences are those in which the student becomes part of a collaborative relationship in a school and/or community setting. They are an integral part of the teacher education experience. The role of the student becomes more complex as students advance in their program, which culminates in a semester-long student teaching experience. A minimum of 80 scheduled hours of field experience is required prior to student teaching.

Physical Education Teacher Education students are introduced to theory and practice of physical education beginning in their first year of study within the teaching major. The electronic portfolio process will allow students to demonstrate and assess their process towards the goals of the physical education teacher education program.

Two beginning-level pedagogy courses, PED 2420 - Foundations of Teaching Health and Physical Education, and PED 2410 - Curriculum and Instruction in Physical Education incorporate the production of evidence indicated by the Level I Licensure Portfolio. Two intermediate level pedagogy courses, PED 3070 - Methods of Teaching Elementary Physical Education, and PED 3140 - Methods of Teaching Secondary Physical Education incorporate additional portfolio requirements.

Between the student's first year until the semester leading up to student teaching, gateways will be used to assess teacher candidate progress through the program. Upon successful completion of PED 2420 and PED 2410, students must satisfy the requirements of Physical Education Gateway I before proceeding with PED 3070 and PED 3140.

Requirements for Physical Education Gateway I include:

- Receive a positive recommendation encouraging continuation in the program;
- Earn a cumulative GPA of 2.75;
- Earn a minimum within the major GPA of 2.75;
- Complete a minimum of 14 credits of 2000 and/or 3000 level course work within the Physical Education core;
- Make progress towards completion of the General Education Program;
- Submit electronic portfolio evidence completed in PED 2420 and PED 2410 that demonstrates progress in the student's understanding of an effective teaching and learning environment, and evidence of a commitment to one's personal development as a future professional;
- Pass the Praxis Core Academic Skills Test for Educators or meet the alternative requirements.

Following completion of Gateway I, the program's emphasis will be on completing the requirements of the physical education major as well as honing pedagogical expertise in the field as well as the classroom. The Methods of Elementary Physical Education and the Methods of Secondary Physical Education courses will provide students with the opportunity to gain additional learning experiences using field-based inquiry, reflection, and analysis. Prospective teacher candidate will also continue to build their electronic portfolios by providing evidence that documents their understanding of the central connections between content and pedagogy.

Upon completion of Physical Education Gateway II, students may be accepted into the student teaching practicum. These Gateway II benchmarks are as follows;

- Complete the department's application to student teach the semester before enrolling in student teaching;
- Pass the first portion of their electronic portfolio, which includes evidence indicated by the Department of Health, Human Movement, & Sport;
- Have completed all physical education major and general education coursework; or, obtain permission from the Teacher Education Program Coordinator.
- Earn a cumulative GPA of 3.0 and earn a GPA of 3.0 within the physical education major; or written certification of intellectual competence by an academic dean;
- Receive a recommendation from members of the faculty to continue in the teacher education program.
- Through related coursework, complete a minimum of 80 hours of supervise field experience.
- Pass any additional teaching motor skills competency tests as required by the Department of Health, Human Movement, & Sport.
- Pass the Praxis Core Academic Skills Test for Educators;
- Pass the ETS Praxis II Physical Education content exam; if the student does not pass the Praxis II examination for physical education, the physical education program coordinator may permit the student to develop and submit a written plan outlining the strategies by which he or she intends to strengthen content area. This plan must be approved by the physical education program coordinator.

## Complete the Physical Education core (59 cr):

### complete one of these courses:

- PSY 1050 - Human Growth and Development 3 cr
- PSY 2110 - Educational Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

### and complete all of these courses:

- PED 1015 - Introduction to Health and Physical Education 3 cr
  - PED 1610 - Concepts of Fitness and Skill Performance 2 cr
  - BIO 2011 - Human Anatomy and Physiology I 4 cr
  - BIO 2012 - Human Anatomy and Physiology II 4 cr
  - PED 2420 - Foundations of Teaching Health and Physical Education 3 cr
  - PED 2320 - Motor Learning 3 cr
  - AHS 2150 - Designs for Fitness 3 cr
  - DAN 2020 - Teaching Rhythms And Dance 2 cr
  - OER 1211 - Adventure Education – Low Elements 2 cr
  - PED 2160 - Emergency Care and Personal Safety 3 cr
  - PED 2260 - Gymnastics/Stunts and Tumbling 1 cr
  - PED 2020 - Teaching Games and Movement 1 cr \*
  - PED 2410 - Curriculum and Instruction in Physical Education 3 cr \*
  - AHS 3120 - Kinesiology 3 cr \*
  - AHS 3150 - Physiology of Exercise 4 cr \*
  - PED 3135 - Teaching Individual Sport Skills 3 cr
  - PED 3220 - Teaching Net and Racquet Sports 3 cr
  - PED 3320 - Teaching Team Motor Skills 3 cr
  - PED 3110 - Adapted Physical Education 3 cr \*
  - PED 4030 - Organization and Administration of Physical Education and Athletics 3 cr
- \*indicates prerequisite course required.

## Other Requirements:

Prior to graduation, students must show competency in swimming, CPR, and first aid. First aid and CPR competency may be shown through participating in Red Cross programs and earning a CPR card or Advanced First Aid card. Swimming competency may be demonstrated through an Intermediate-level swimming instructor card, proper life-guarding credentials, and/or passing a Castleton University-administered swim exam. Students may also elect to take the following courses to meet those requirements:

- PED 2010 - Beginning Swimming 1 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr

## Teaching Option

Students wishing to work towards teacher licensure in K-12 Physical Education must apply and be accepted into Physical Education Gateway II, must apply and be accepted into the student teaching practicum, and, complete the PETE program requirements.

- PED 3070 - Methods of Teaching Elementary Physical Education 4 cr

- PED 3140 - Methods of Teaching Secondary Physical Education 4 cr
- PED 4871 - Directed Student Teaching In Physical Education I 6 cr
- PED 4872 - Directed Student Teaching in Physical Education II 6 cr
- PED 4720 - Seminar in Teaching Physical Education 1 cr

## K-12 Teacher Licensure:

To be recommended for licensure by the State of Vermont, a student must:

- Successfully complete and graduate from an approved program.
- Receive a grade of "B" or better in Student Teaching I and Student Teaching II and a "pass" in PED 4720.
- Maintain a GPA of 3.0 and a B average (GPA of 3.0) in the field of major studies.
- Meet the required standard for the licensure portfolio.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Beginning in October of 2004, pass Praxis II examination in physical education content knowledge, multiple choice or constructed responses essay.  
(Test code: 0092) (Test code: 0091)

## Sports Administration (BS.SAD)

Students completing the Bachelor of Science in Sports Administration will demonstrate their ability to:

- Critically apply content knowledge to real world situations and tasks.
- Work effectively both individually and as part of a team to accomplish professional tasks.
- Understand and exhibit the professional ethics and responsibilities relevant to the field of Sports Administration.
- Understand and exhibit the role of professional development and continuing education as part of the industry.

Students should make a formal application to the Sports Administration program through the Sports Administration Program Coordinator during the spring of their first year or fall of sophomore year. Transfer students and upperclassmen may also apply and will be readily considered as part of the semester cohort. General information and criteria for selection to the program is published in the Sports Administration Program Handbook and on the Castleton University website. Students must complete a minimum of 28 credits, including PED 1350 - Introduction to Sports Administration, BUS 1270 - Principles of Computer-Based Information Systems, as well as having at least a 2.3 GPA overall and a successful interview to be admitted to the program.

The culminating experience of PED 4811 - Internship in Sports Administration will also require a formal application process. Students can apply for internship after completing 75 credits overall (during Junior year), 30 credits in the Sport Administration core, have a 2.5 GPA overall and 2.7 in the SA Core. To be formally approved and eligible to enroll in PED 4811 - Internship in Sports Administration a student must have completed 90 credits overall, 35 credits in the required core, maintained the aforementioned GPA requirements and submit an approved application.

## Complete the Sports Administration Required Core (43 cr):

complete one of these courses:

- PED 2140 - Fitness Center Management 3 cr
- PED 3130 - Athletic Facility and Event Management 3 cr

and complete all of these courses:

- PED 1350 - Introduction to Sports Administration 3 cr
- BUS 2020 - Principles of Management 3 cr

- ECO 2050 - Microeconomics in a Global Context 3 cr
- PED 2090 - Principles and Practices of Coaching 3 cr
- ACC 2101 - Accounting I 3 cr
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- PED 2470 - Seminar in Sports Administration 2 cr
- PED 3160 - Legal and Ethical Principles in Sport 3 cr
- PED 3170 - Seminar in Sports Information Practices 3 cr
- PED 3210 - Sports Promotion 3 cr
- PED 3821 - Practicum in Sports Administration I 1 cr
- PED 3822 - Practicum in Sports Administration II 1 cr
- PED 4080 - Governance of Sports 3 cr
- PED 4110 - Strategic Sport Management 3 cr

And complete one of the following tracks (9-12 cr):

#### Broadcast Media Track (9 credits)

- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 2212 - Video Workshop II: News and Feature Production 3 cr
- COM 2210 - Broadcast Performance 3 cr

#### Outdoor Education Administration Track (10 credits)

- OER 1211 - Adventure Education – Low Elements 2 cr
- OER 1212 - Adventure Education – High Elements 2 cr
- OER 2060 - Advanced Wilderness First Aid 3 cr
- And one other OER activity courses 3 cr

#### Sport Business Track (select 12 credits)

- ACC 3010 - Accounting for Management Decisions 3 cr
- BUS 3060 - Consumer Behavior 3 cr
- BUS 3210 - Advertising 3 cr
- BUS 3131 - Business Law I 3 cr
- BUS 3230 - Financial Management 3 cr
- BUS 3250 - Organizational Development and Behavior 3 cr

#### Sports Information Track (9 credits)

- COM 1040 - Media Writing 3 cr
- COM 2220 - Web Content and Site Development 3 cr
- COM 2221 - Graphic Design I 3 cr

#### Sport Promotion Track (select 9 credits)

- COM 1040 - Media Writing 3 cr
- COM 2150 - Public Relations 3 cr
- BUS 3210 - Advertising 3 cr
- COM 2230 - News Gathering and Writing 3 cr

## General Track (9-12 cr)

Select a total of 9-12 credits from:

- Any of the courses listed in the Tracks above, as approved by advisor and department chair
- Any Coaching Sport course (max 3 cr)
- ECO 2040 - Macroeconomics in a Global Context 3 cr

## And take an Internship (9-12 cr):

- PED 4811 - Internship in Sports Administration 9-12 cr

(Credits required for the major: 61-67 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Minors

### Adventure Recreation Minor (ADV)

This minor is offered by the Department of Health, Human Movement, & Sport.

Complete these required courses (11 cr):

- OER 1150 - Winter Recreation and Camping 2 cr
- OER 1210 - Orienteering and Camping Skills 2 cr
- OER 2060 - Advanced Wilderness First Aid 3 cr
- OER 2170 - Primitive Survival Skill 2 cr
- OER 2220 - Theory of Outdoor Leadership 2 cr

And select 3 credits from the following:

- OER 1131 - Rock Climbing 1 cr
- OER 1170 - Ice Climbing 1 cr
- OER 1180 - Introduction to Telemark Skiing 1 cr
- OER 1133 - Rock Climbing and Rappelling 1 cr
- OER 1225 - Wilderness Canoe Tripping 1 cr
- OER 1230 - Introduction to Mountain Biking 1 cr

- OER 1240 - Fly Fishing 1 cr
- OER 1320 - Back Country Skiing and Snowboarding 1 cr
- OER 2310 - Winter Mountaineering 3 cr
- PED 1040 - Archery 1 cr
- PED 2350 - White Water Rafting 1 cr

Total credits required: 14 cr

## **Coaching Minor (COA)**

This minor is offered by the Department of Health, Human Movement, & Sport.

Complete these required courses (15 cr):

- AHS 1070 - Basic Athletic Training 3 cr
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2090 - Principles and Practices of Coaching 3 cr
- PSY 1050 - Human Growth and Development 3 cr

And select two of the following courses (6 cr):

- PED 2180 - Coaching Soccer 3 cr
- PED 2190 - Principles of Coaching Ice Hockey 3 cr
- PED 2220 - Coaching Basketball 3 cr
- PED 2240 - Coaching Baseball and Softball 3 cr
- PED 2390 - Coaching Football 3 cr

Total credits required: 21 cr

## **Community Health Education Minor (CED)**

The Community Health Education minor is offered by the Department of Health, Human Movement, & Sport. The minor prepares candidates in non-school health settings such as public health departments, hospitals, work site health promotion, and non-profit community agencies.

This program prepares students to take the Community Health Education Specialist (CHES) exam.

This is also a valuable minor for Health Science and Health Psychology majors.

Complete the following courses (24 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2120 - Wellness for Life 3 cr



- HED 2310 - Health Education Methods 3 cr
- HED 3030 - Health Behavior Theory 3 cr
- HED 3051 - Community Health Education I 3 cr
- HED 4052 - Community Health Education II 3 cr
- PED 2370 - Community Health 3 cr

And complete one of the following courses (3 cr):

- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
- OR-
- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr

(Total credits required: 27 cr)

## **Fitness/Sport Science Minor (FIT)**

The Fitness/Sports Science minor is offered by the Department of Health, Human Movement, & Sport.

Required Courses:

- AHS 2150 - Designs for Fitness 3 cr
- PED 2070 - Conditioning 2 cr
- PED 2140 - Fitness Center Management 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2210 - Physical Methods of Stress Management 1 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- AHS 2170 - Strength Training Principles 2 cr

Total credits required: 17 cr

## **Health Minor (HLT)**

The Health minor is offered by the Department of Health, Human Movement, & Sport.

Complete these required courses (9 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- HED 3030 - Health Behavior Theory 3 cr
- PED 2370 - Community Health 3 cr

And select four of the following courses (11-12 cr):

- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2120 - Wellness for Life 3 cr

- AHS 3090 - Introduction to Alternative/Complementary Medicine 3 cr
- AHS 3813 - Pharmacology and General Medical Conditions 2 cr
- HED 2310 - Health Education Methods 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 3060 - Women's Health Issues 3 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- PSY 3130 - Health Psychology 3 cr
- SOC 2230 - Death And Dying 3 cr

(Total credits required: 20-21 cr)

## **Physical Education Minor (PED)**

This minor is offered by the Department of Health, Human Movement, & Sport.

Complete these required courses (12 cr):

- PED 1015 - Introduction to Health and Physical Education 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2410 - Curriculum and Instruction in Physical Education 3 cr
- PED 2420 - Foundations of Teaching Health and Physical Education 3 cr

and complete one of these courses (3 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- PED 2370 - Community Health 3 cr
- HED 2310 - Health Education Methods 3 cr

and complete one of these courses (1-2 cr):

- DAN 1050 - Aerobic Dance 1 cr
- DAN 2020 - Teaching Rhythms And Dance 2 cr

and complete these life activity requirements (4 cr):

- Two Team Sport courses
- Two Individual Pursuit courses

(View the list of courses)

Total credits required: 20-21 cr

## **School Health Education Minor (SED)**

The School Health Education minor is offered by the Department of Health, Human Movement, & Sport. The minor prepares Physical Education Teaching Education (PETE) majors for a second teacher licensure endorsement in Health Education through the Vermont Agency of Education transcript review process. (Many schools that are searching for a Physical Educator will only offer a position to those who are dual credentialed in Health and Physical Education.)

Courses required by the Vermont Agency of Education are a part of this minor.

### Complete the following courses (22 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2120 - Wellness for Life 3 cr
- HED 2310 - Health Education Methods 3 cr
- PED 2370 - Community Health 3 cr
- And take one of the following:
- BIO 2011 - Human Anatomy and Physiology I 4 cr  
-OR-
- BIO 2012 - Human Anatomy and Physiology II 4 cr  
And take one of the following:
- PSY 1050 - Human Growth and Development 3 cr  
-OR-
- PSY 3265 - Child and Adolescent Development 3 cr

### And complete one of these three options (4-7 cr):

#### Students seeking Elementary Health Education License

- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
- HED 4811 - Elementary Health Education Practicum 1-2 cr

#### Students seeking Secondary Health Education License

- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr
- HED 4812 - Secondary Health Education Practicum 1-2 cr

#### Students seeking Elementary AND Secondary Health Education License

- Take one of the following:
- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr  
-OR-
- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr  
And take both of these:
- HED 4811 - Elementary Health Education Practicum 1-2 cr
- HED 4812 - Secondary Health Education Practicum 1-2 cr

(Total credits required: 26-29 cr)

## Graduate Degrees

### MS in Athletic Leadership

Master of Science in Athletic Leadership: [see the Graduate Catalog](#)

## History, Geography, Economics, and Politics Department

*Department Chair: Associate Professor Andre Fleche*

*Castleton Polling Institute director: Associate Professor Richard Clark*

*Economics Coordinator: Professor Judith Robinson*

*Environmental Studies Coordinator: Professor Judith Robinson*

*Geography Coordinator: Associate Professor Scott Roper*

*Global Studies Coordinator: Professor Carrie Waara*

*History Coordinator: Associate Professor Patricia van der Spuy*

*Political Science Coordinator: Associate Professor Richard Clark*

*Social Studies Coordinator: Associate Professor Patricia van der Spuy*

The Department of History, Geography, Economics and Politics (HGEP) is an innovative and interdisciplinary department that offers several liberal arts programs that prepare students to pursue meaningful careers and to act knowledgeably and effectively in the world:

- Economics (major-by-contract, minor)
- Environmental Studies (major-by-contract, minor)
- Geography (major-by-contract, minor)
- Global Studies (major, minor, certificate)
- History (major, minor, honors)
- Political Science (major, minor)
- Social Studies (major)

These programs educate students to identify, interpret, and constructively engage the many forces that influence humanity and shape the history and future of the world. Students develop excellent skills in reading critically, writing clearly, thinking analytically, researching effectively, and arguing persuasively, and thus are well prepared to teach, to earn a higher degree in graduate school, and to embark on a myriad of careers in the public and private sector.

Our alumni have become teachers, lawyers, professors, journalists, business people, rangers, librarians, researchers, authors, archivists, diplomats, screenwriters, bankers, editors, administrators, and politicians. Our graduates have also pursued higher degrees in such fields as Law, Education, Geography, Journalism, Economics, Political Science, Historic Preservation, Information Science, Museum Studies, Computer Science, and History.

Note to future teachers:

- Students who wish to teach at the elementary school level may elect to major in Multidisciplinary Studies (MDS) with a concentration in HGEP, or to major in History while pursuing education licensure.
- Students who wish to teach at the secondary level may elect to major in Social Studies or History while pursuing education licensure.
- Students who are considering becoming a teacher but desire to keep their career options open may major in History with an additional major or minor in another HGEP discipline, and subsequently pursue postgraduate educational licensure.

For more information please visit our website at [www.castleton.edu/History/index.htm](http://www.castleton.edu/History/index.htm)

## Bachelor's Degrees

### Economics (BA.SSC.ECO)

Upon completion of the Economics major, students will be able to demonstrate:

1. A working knowledge of economic vocabulary, concepts, theories, and facts.
2. An understanding of the limitations of economic theories along with the ability to integrate theories with their limitations.
3. An appreciation of the economic world, its significance in human affairs, and the importance of the body of economic knowledge as a means to further human well-being.
4. An understanding of the interconnections between economic systems and political, social, and cultural systems as well as the natural environment.
5. The skills of reading economic subject material accurately and critically; expressing economic ideas clearly; applying economic theories in the real world appropriately; and using analytical, mathematical, and graphical economic tools all as preparation for their professional careers and lives as citizens.

To major in Economics, the student and the coordinator of Economics (who becomes the student's academic advisor) initiate a written Social Science Major-by-Contract with the following stipulations:

- a. Drawn up by the student and two faculty members, one representing the principal discipline (Economics) and one representing an appropriate secondary discipline.
- b. Approved and signed (normally by the time the student has reached the fifth semester or 75 credits) by the student, the two faculty sponsors, the coordinator of Economics, the chair(s) of the department(s) involved, and the academic dean.
- c. Subject to modification at the request of the student or advisor; any modifications must be agreed to by all parties to the contract.

The written contract will state how the student is to complete a minimum of **48 credits** to be distributed as follows:

- At least 21 credits in Economics, including a 4000-level Independent Study
- At least 18 credits in the secondary discipline

In addition:

- At least one course in History (3 cr)
- At least one course in two of the following disciplines: Environmental Studies, Geography, Global Studies, Political Science (6 cr)
- Included among all the 48 credits earned, at least 12 credits must be at least at the 2000-level and an additional 12 credits must be at least at the 3000-level.

Cross-listed courses may be used to fulfill these requirements, but the same course cannot be used to fulfill both the principal and the secondary disciplines requirements. Courses used to satisfy the above requirements may also be used to satisfy the general education requirements.

### Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

### Environmental Studies (BA.SSC.ENV)

Upon completion of the Environmental Studies major, students will be able to demonstrate:

1. A broad knowledge of the Social Science and Humanities approaches to the natural environment.
2. An awareness of the vast nature and scope of environmental problems.
3. The ability to critically analyze past, present, and proposed governmental policy approaches to environmental and sustainability issues.
4. An extensive set of insights into the complexity of the political, geographical, historical, economic, and social issues surrounding the environmental, environmental justice, and sustainability movements.
5. An understanding of-and ability to grapple with-the numerous ethical dimensions to many environmental issues.
6. An ability to become effective environmental problem-solvers in a diverse world with differences in environmental perspectives.

To major in Environmental Studies, the student and the coordinator of Environmental Studies (who becomes the student's academic advisor) initiate a written Social Science Major-by-Contract with the following stipulations:

- a. Drawn up by the student and two faculty members, one representing the principal discipline (Environmental Studies) and one representing an appropriate secondary discipline.
- b. Approved and signed (normally by the time the student has reached the fifth semester or 75 credits) by the student, the two faculty sponsors, the coordinator of Environmental Studies, the chair(s) of the department(s) involved, and the academic dean.
- c. Subject to modification at the request of the student or advisor; any modifications must be agreed to by all parties to the contract.

The written contract will state how the student is to complete a minimum of **48 credits** to be distributed as follows:

- At least 21 credits in Environmental Studies, including a 4000-level Independent Study. These courses may be chosen from ENV courses and courses cross-listed with ENV.
- At least 18 credits in the secondary discipline

In addition, at least nine more credits must be earned as follows:

POS 1020 - American Politics and Government **3 cr**

Students whose secondary discipline is a Natural Science must take at least one course in two of the following disciplines: ECO, GEO, GLB, HIS (beyond what they are already taking for their principal discipline) **6 cr**

Students whose secondary discipline is NOT a Natural Science must take at least one course in two of the following disciplines: BIO, CHEM, GEY, SCI (beyond what they are already taking for their principal discipline) **6 cr**

- Included among all the 48 credits earned, at least 12 credits must be at least at the 2000-level and an additional 12 credits must be at least at the 3000-.

Cross-listed courses may be used to fulfill these requirements, but the same course cannot be used to fulfill both the principal and the secondary disciplines requirements. Courses used to satisfy the above requirements may also be used to satisfy the general education requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Geography (BA.SSC.GEO)

Geography is concerned with understanding the Earth as home to humans. Geographers attempt to describe spatial patterns (what phenomena are located on the Earth's surface, and where they are located) and to analyze those patterns (why those phenomena are located where they are, and how they are related to each other). In so doing, they typically address one or more of the following themes: location, place, region, movement, and human-environment interactions.

Upon completion of the Geography major, students will be able to:

1. Communicate spatial concepts visually, orally, and in written form.
2. Interpret, use, and analyze maps and other geospatial representations.
3. Identify relevant physical and human systems and apply them to the study of the Earth, its regions, and its places.
4. Identify, describe, and analyze human and physical systems and their impacts on each other.
5. Use geographical ideas to understand past and present conditions and plan for the future.

To major in Geography, the student and the coordinator of Geography (who becomes the student's academic advisor) initiate a written Social Science Major-by-Contract with the following stipulations:

- a. Drawn up by the student and two faculty members, one representing the principal discipline (Geography) and one representing an appropriate secondary discipline.
- b. Approved and signed (normally by the time the student has reached the fifth semester or 75 credits) by the student, the two faculty sponsors, the coordinator of Geography, the chair(s) of the department(s) involved, and the academic dean.
- c. Subject to modification at the request of the student or advisor; any modifications must be agreed to by all parties to the contract.

The written contract will state how the student is to complete a minimum of **48 credits** to be distributed as follows:

- At least 21 credits in Geography, including a 4000-level Independent Study
- At least 18 credits in the secondary discipline

In addition:

- At least one course in History (**3 cr**)
- At least one course in two of the following disciplines: Economics, Environmental Studies, Global Studies, Political Science (**6 cr**)
- Included among all the 48 credits earned, at least 12 credits must be at the 2000-level and 12 credits at the 3000-level.

Cross-listed courses may be used to fulfill these requirements, but the same course cannot be used to fulfill both the principal and the secondary disciplines requirements. Courses used to satisfy the above requirements may also be used to satisfy the general education requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Global Studies (BA.GLB)

The Global Studies major provides an opportunity to acquire information, knowledge, and interpretive paradigms that enhance students' understanding of the changing world order and enable them to live more fulfilling and useful lives. This multidisciplinary major requires coursework that trains students to analyze the world in a variety of contexts—geographic, historical, economic, environmental, political, cultural, social, religious, philosophical, and aesthetic. Through their courses and study abroad, students develop the critical skills they will need to achieve their goals in our

increasingly integrated local, national, and world communities. Upon completion of the Global Studies major, students will be able to demonstrate:

1. The ability to identify and analyze patterns of human interdependence, including
  - the contested notion of globalization, and the multiple and cumulative impacts of the powerful forces driving this process;
  - the global variety of organizational structures, institutions, and processes;
  - the ways in which cultures and peoples structure and frame common and competing interests in—and understandings of—the world;
  - interrelationships among cultures, environments, places, and technologies;
  - global environmental problems and mitigation strategies.
2. In-depth knowledge and analysis of concepts, theories and information gained through a concentrated exploration of one particular global theme.
3. In-depth knowledge and analysis of one particular region and its relationship to the rest of the world.
4. Understanding of multiple worldviews derived from academic study, proficiency in a modern foreign language, and cultural immersion abroad.

All majors must complete 51 credits: 18 credits in required core courses, 9 credits in one thematic concentration, 9 credits in one regional concentration, 12 credits in a foreign language, 0-2 credits in GLB 3810 - Cultural Immersion Experience, and 3 credits in GLB 4610 - Global Studies Capstone Seminar.

## I. Core Courses (18 cr)

These courses should be completed by the end of your fourth semester in the program

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- ECO 1040 - Global Economic Issues 3 cr
- GEO 2020 - World Regional Geography 3 cr
- GLB 1010 - Introduction to Global Studies 3 cr
- HIS 1135 - Global History 3 cr
- POS 1030 - Comparative Politics and Government 3 cr

## II. Thematic Concentration (9 cr)

Select ONE concentration (A, B, or C) and complete three courses within that concentration. No course fulfilling the Thematic Concentration may be counted for the Regional Concentration or vice versa.

### A. International Political Economy, Governance and Human Rights

This thematic concentration is designed for students interested in global institutions, power dynamics, and political processes, and who aspire to careers in the diplomatic service, the UN, peace work, or other international non-governmental organizations.

- ECO 3220 - International Trade and Development 3 cr
- POS 2040 - International Relations 3 cr
- POS 2210 - Political Ideologies 3 cr
- POS 3221 - Political Philosophy I 3 cr
- POS 3222 - Political Philosophy II 3 cr
- POS 3250 - International Organizations 3 cr
- POS 3260 - Middle Eastern Politics and Government 3 cr



- POS 4010 - US Foreign Policy 3 cr

## B. Environment/Sustainability

This thematic concentration is designed for students interested in the social science of environmental issues, and who aspire to careers devoted to solving environmental threats on a global scale.

- ANT 2210 - Anthropology and the Environment 3 cr
- ECO 3060 - Political Economy of the Environment 3 cr
- ENV 1210 - Environmental Harm and Mitigation Strategies 3 cr
- GEO 2150 - Cultural Geography 3 cr
- GEO 2220 - Weather and Climate 3 cr
- GEO 3080 - Globalization and the Environment 3 cr or ENV 3080 - Globalization and the Environment 3 cr
- PHI 3160 - Environmental Ethics 3 cr
- POS 2310 - Environmental Politics 3 cr

## C. Global Dynamics of Culture

This thematic concentration is designed for students interested in the cultural dimensions of our world, and who aspire to careers that could take them abroad and that require well-developed cultural sensitivities. Students should keep their career goals in mind as they select from this broad array of culture-related courses. No more than 6 credits may be taken in any one of four world regions (Africa & Middle East, Asia, Europe, the Americas).

- ANT 3210 - Anthropology of Food 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- COM 2160 - International Communication 3 cr
- COM 2330 - International Cinema 3 cr -OR- THA 3135 - International Cinema 3 cr
- ENG 2161 - World Literature through Renaissance (L) 3 cr
- ENG 2162 - World Literature from Enlightenment (L) 3 cr
- ENG 3230 - Asian Literature 3 cr
- ENG 3290 - Studies in World Literature (L) 3 cr
- HIS 1010 - Roots: Historical Perspectives on Global Problems and Issues 3 cr
- HIS 2260 - Asia in the World 3 cr
- HIS 2335 - Asia through Food and Film 3 cr
- HIS 2410 - History and Culture of Latin America 3 cr
- HIS 2431 - African History Before 1885 3 cr
- HIS 2432 - African History After 1885 3 cr
- HIS 3210 - Social History of Latin America 3 cr
- HIS 3220 - Revolutions in Latin America 3 cr
- HIS 3340 - Europe and the Middle East 3 cr
- HIS 3465 - Apartheid South Africa 3 cr
- HIS 3470 - Modern African History: Texts in Context 3 cr
- HIS 3475 - Women and Gender in African History 3 cr
- HIS 3480 - Special Topics: Africa in Global History 3 cr
- HIS 3510 - Chinese History and Culture 3 cr
- HIS 3520 - Japanese History and Culture 3 cr
- HIS 3570 - History, Memory and War 3 cr

- HIS 3720 - Topics in Asian History 3 cr
- MUS 1080 - Global Music 3 cr
- PHI 2010 - Comparative Religions 3 cr
- SOC 3160 - Anthropology of Religion 3 cr

### III. Regional Concentration (9 cr)

Select ONE region (A, B, C, or D) and complete three courses within that region. No course fulfilling the Thematic Concentration may be counted for the Regional Concentration or vice versa.

#### A. Africa and Middle East

- HIS 2431 - African History Before 1885 3 cr
- HIS 2432 - African History After 1885 3 cr
- HIS 3340 - Europe and the Middle East 3 cr
- HIS 3465 - Apartheid South Africa 3 cr
- HIS 3470 - Modern African History: Texts in Context 3 cr
- HIS 3475 - Women and Gender in African History 3 cr
- HIS 3480 - Special Topics: Africa in Global History 3 cr

#### B. Asia

- ENG 3230 - Asian Literature 3 cr
- HIS 2260 - Asia in the World 3 cr
- HIS 2335 - Asia through Food and Film 3 cr
- HIS 3510 - Chinese History and Culture 3 cr
- HIS 3520 - Japanese History and Culture 3 cr
- HIS 3570 - History, Memory and War 3 cr
- HIS 3720 - Topics in Asian History 3 cr
- PHI 2110 - Asian Philosophy 3 cr

#### C. Europe

- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr
- ARH 3010 - Classical Art: Greece and Rome 3 cr
- ARH 3030 - Italian Renaissance Art 3 cr
- ARH 3040 - The Art of Medieval Europe 3 cr
- ARH 3051 - History of Nineteenth Century Art 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr
- ENG 3170 - Epic Poetry (L) 3 cr
- ENG 3310 - Dante (L) 3 cr
- HIS 2255 - Medieval and Early Modern Europe 3 cr
- HIS 2285 - Modern Europe 3 cr
- HIS 3340 - Europe and the Middle East 3 cr
- HIS 3345 - Masculinities in Modern Europe 3 cr

- HIS 3365 - The British Empire 3 cr
- HIS 3450 - Women in European History 3 cr
- MUS 2031 - History of Western Music: Ancient to Baroque 3 cr
- MUS 2032 - History of Western Music: Classical to Modern 3 cr
- PHI 3011 - History of Philosophy I 3 cr
- PHI 3012 - History of Philosophy II 3 cr
- POS 3320 - European Politics and Government 3 cr

## D. The Americas

- HIS 2410 - History and Culture of Latin America 3 cr
- HIS 3210 - Social History of Latin America 3 cr
- HIS 3220 - Revolutions in Latin America 3 cr
- SPA 1180 - Latin America: Past and Present 3 cr
- SPA 2030 - Spanish American Cultures 3 cr
- SPA 3060 - Latin America: The Making of the Canon (1492-1899) 3 cr
- SPA 3070 - Latin America: The Making of the Canon (1900 to the present) 3 cr
- SPA 3110 - Latin American Novel and Short Story 3 cr
- SPA 3150 - The Novel of the Mexican Revolution 3 cr
- SPA 3160 - Latin American Women Writers 3 cr

## IV. Cultural Immersion (12 cr)

- Complete 12 credits or equivalent in a modern foreign language 12 cr
- GLB 3810 - Cultural Immersion Experience 0-2 cr

## V. Capstone (3 cr)

- GLB 4610 - Global Studies Capstone Seminar 3 cr

(Credits required for the major: 51 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## History (BA.HIS)

# Bachelor of Arts in History

Upon completion of the History major, students will be able to demonstrate:

1. A broad and deep store of knowledge of human history, ancient to present, as well as:
  - knowledge of chronology, place, and significance;
  - mastery of the various theories, methodologies, and interpretations current in the history profession;
  - historical empathy;
  - understanding the role of the past in shaping current events and the richness of the past as a source for meeting contemporary challenges.
2. The ability to conduct and present both orally and in writing quality research that:
  - poses a significant historical question;
  - identifies, evaluates, contextualizes, and utilizes a wide variety of relevant primary and secondary sources;
  - articulates a clear thesis statement;
  - argues effectively by employing and properly citing evidence in support of a thesis;
  - explains the historical significance of the research.
3. The capacity to be teachers, and/or attend graduate school, and/or embark upon history-related careers.

To earn the B.A. in History:

I. Complete 33 credits in History (15 of these credits must be at the 3000 level)

-the four introductory survey courses (12 cr):

- HIS 1125 - The Ancient World 3 cr
- HIS 1135 - Global History 3 cr
- HIS 1215 - Survey of Early U.S. History 3 cr
- HIS 1225 - Survey of Modern U.S. History 3 cr

-plus one course above the 1000 level in each of the following areas (12 cr):

- African History 3 cr
- Asian History 3 cr
- European History 3 cr
- Latin American History 3 cr

-plus three additional History courses above the 1000 level (9 cr)

II. Complete 9 credits in the Social Sciences (9 cr):

- one Economics course 3 cr
- one Geography course 3 cr
- one Political Science course 3 cr

### III. Complete the two capstone History courses (6 cr):

- HIS 4601 - History Research Seminar 3 cr
- HIS 4602 - History Thesis Seminar 3 cr

(Credits required for the major: 48 cr)

And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

#### Note:

Students who plan to be secondary Social Studies teachers should take ECO 3080 - Foundations of Economics for Secondary Educators .

It is *strongly recommended* that History majors also complete *either* an academic minor, *or* 12 credits in another academic discipline chosen in consultation with the advisor, *or* education licensure requirements; *and* demonstrate the ability to read a foreign language.

Students with either second majors, or wishing to be licensed to teach in elementary or secondary schools, must have an advisor from both sponsoring departments.

All courses taken to fulfill the History major requirements may also be used to fulfill the general education and academic minor requirements.

Motivated students should consider taking the program in Honors History.

### Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

### **History: Honors (BA.HIS.HON)**

#### Bachelor of Arts in History Honors

The History Honors Program provides a more rigorous version of the History major than the regular Bachelor's program and it offers the opportunity to work even more closely with the department's faculty to produce an original piece of historical research. The program is strongly recommended for students who wish to pursue graduate study but it is appropriate for any student wishing to study history more broadly and in greater depth.

### **Eligibility**

The candidate must be a History major with a GPA of at least 3.3 in History (HIS) courses as well as an overall GPA of at least 3.0.

The candidate must be recommended in writing by two members of the History faculty, one of whom will serve as the student's Honors advisor.

The candidate must then be approved as a History Honors major by the HGEP Department; such acceptance ordinarily occurs before the end of the sophomore year. The Department then forms an Honors Committee (comprised of the Honors advisor, the History Thesis Seminar instructor, and a third reader) that consults regularly with the candidate to help him or her complete the requirements below.

## Requirements:

1. Complete the requirements of the History major.
2. Complete six credits of university-level foreign language courses or equivalent language-learning experience, to be approved by the Honors Committee.
3. Complete HIS 4910, an independent study that focuses on developing historiographical knowledge of the student's intended History Honors Thesis topic, and should be taken prior to or concurrent with enrollment in HIS 4601: History Research Seminar.
4. Submit a History Honors Thesis that demonstrates mastery of a historically significant topic, a thorough engagement with a wide range of primary and secondary sources, and advanced knowledge of-and ability to employ-historical methods, theories and research skills.
5. Conduct a public defense of the History Honors Thesis in which the candidate satisfactorily presents, explains, and defends the research, writing, organization, and conclusions of the thesis. The oral defense takes place no later than the last week of the candidate's final semester.

## Political Science (BA.POS)

Upon completion of the Political Science major, students will be able to demonstrate knowledge and understanding of:

1. The basic analytical concepts and theories of the discipline of Political Science.
2. The institutions of American politics and government and how they function.
3. American political culture and political behavior.
4. The political systems of other nations, including their political institutions, processes, culture, and behavior.
5. Global politics, international institutions, and global issues.
6. Political philosophies, theories, and ideologies and their significance to political life.
7. The skills and methodologies appropriate for research in Political Science.

## Required Courses:

All majors must complete a minimum of 48 credits: 39 credits in Political Science and 9 credits from related disciplines. The 39 credits in Political Science must include:

- POS 1020 - American Politics and Government 3 cr
- POS 1030 - Comparative Politics and Government 3 cr
- POS 2040 - International Relations 3 cr
- POS 2510 - Research Methods 3 cr
- POS 3221 - Political Philosophy I 3 cr
- POS 3222 - Political Philosophy II 3 cr
- POS 3420 - Congress and The Presidency 3 cr

- POS 3510 - Quantitative Analysis **3 cr** (*note that MAT 2021 - Statistics I is a prerequisite for POS 3510*)
- POS 4610 - Senior Seminar in Political Science **3 cr**
- plus four additional Political Science courses **12 cr**
- and 9 credits in the related disciplines of Economics, Environmental Studies, Geography, Global Studies and/or History **9 cr**

(Credits required for the major: 48 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Social Studies (BA.SST)

The major in Social Studies provides students with a strong foundation in teaching secondary Social Studies, enabling them to implement state and national educational standards.

Upon completion of the Social Studies major, students will be able to:

1. Demonstrate a broad store of knowledge of history, geography, economics, politics, and related social sciences.
2. Describe, analyze and explain economic, political, cultural, social and physical systems in the context of time and space.
3. Demonstrate the ability to conduct and present both orally and in writing quality research so as to participate actively in-and foster-the ongoing construction of knowledge.
4. Apply knowledge of Social Studies creatively, and demonstrate a love of learning and a critical awareness of the significance of Social Studies for human well-being.

Complete the following core courses (24 cr):

- HIS 1125 - The Ancient World **3 cr**
- HIS 1135 - Global History **3 cr**
- HIS 1215 - Survey of Early U.S. History **3 cr**
- HIS 1225 - Survey of Modern U.S. History **3 cr**
- POS 1020 - American Politics and Government **3 cr**
- GEO 2020 - World Regional Geography **3 cr**
- ECO 3080 - Foundations of Economics for Secondary Educators **3 cr**
- ANT 1010 - Introduction to Cultural Anthropology **3 cr** -OR- SOC 1010 - Introduction to Sociology **3 cr**

And a two-course capstone sequence (6 cr):

Either:

- POS 2510 - Research Methods 3 cr
- POS 4610 - Senior Seminar in Political Science 3 cr

Or:

- HIS 4601 - History Research Seminar 3 cr
- HIS 4602 - History Thesis Seminar 3 cr

**In addition, complete 18 credits in elective courses (18 cr):**

The electives must be chosen from History, Geography, Economics, Political Science, Environmental Studies, and/or Global Studies.

The electives must include:

- No more than 3 credits at the 1000 level;
- At least 9 credits at the 3000 level;
- No more than 9 credits in one discipline.

**(Credits required for the major: 48 cr)**

**And complete the university's Gen Ed requirements**

Review the Gen Ed requirements.

**Social Studies students are strongly encouraged to:**

- study abroad
- study a world language
- take GEO 2210 - Introduction to Geographic Information Systems
- take HIS 2070 - Vermont History
- as part of their Gen Ed program, take PSY 1012 - Introduction to Psychological Science

**Certificates (awarded in conjunction with undergraduate degree)**

## **Global Studies Certificate**

The Certificate in Global Studies provides an opportunity for interested degree-seeking students to strengthen their understanding and engagement with our globally integrated world through coursework and globally oriented experiential learning.

**Complete the introductory GLB course (3 cr):**

- GLB 1010 - Introduction to Global Studies 3 cr

**And complete three of the following (9 cr):**



- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- ECO 1040 - Global Economic Issues 3 cr
- GEO 2020 - World Regional Geography 3 cr
- POS 1030 - Comparative Politics and Government 3 cr

## And perform community service

Complete 30 hours of community service with a global focus. Prior approval by the Global Studies Coordinator is required.

## Minors

### Economics Minor (ECO)

This minor in Economics is offered by the HGEP Department. Upon completion of the minor, students will succeed in analytically and historically integrating contemporary economic events—both market and policy based into their world view(s).

### Complete the following courses (12 cr):

- ECO 1040 - Global Economic Issues 3 cr or ECO 3220 - International Trade and Development 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr
- ECO 3210 - Great Ideas in Economics 3 cr

### and 6 additional credits from the following:

- ECO 1010 - Economics and Society 3 cr
- ECO 1030 - The Economics of Wealth and Poverty 3 cr
- ECO 2120 - U.S. Economic History 3 cr
- ECO 2910 - Independent Study 1-3 cr
- ECO 3020 - Money, Banking, and the Financial Services Sector 3 cr
- ECO 3050 - Women in the Economy 3 cr
- ECO 3060 - Political Economy of the Environment 3 cr
- ECO 3240 - Intermediate Macroeconomics 3 cr
- ECO 3250 - Intermediate Microeconomics 3 cr
- ECO 3810 - Internship in Economics 1-12 cr
- ECO 4910 - Independent Study 1-3 cr

### Note:

- At least 6 of the credits overall toward this minor must be at the 3000 level or above.
- A maximum of 6 credits of independent study or internship may be applied to this minor.

**Total credits required: 18 cr**

## **Environmental Studies Minor (ENV)**

The Environmental Studies minor is offered by the HGEP Department. Upon completion of the minor, students will be able to demonstrate their ability to live, work and participate in a diverse natural world where differences in perspective, the product of democratic politics, are to be expected.

Complete the following courses (12 cr):

- ENV 1210 - Environmental Harm and Mitigation Strategies 3 cr
- POS 2310 - Environmental Politics 3 cr
- PHI 3160 - Environmental Ethics 3 cr
- ENV 3080 - Globalization and the Environment 3 cr

Plus 6 additional credits of related work, subject to approval of the coordinator.

Possible courses include, but are not limited to the following:

- ANT 2210 - Anthropology and the Environment 3 cr
- ECO 3060 - Political Economy of the Environment 3 cr
- ENV 2910 - Independent Study 1-3 cr
- ENV 3810 - Internship in Environmental Studies 1-12 cr
- ENV 4910 - Independent Study 1-3 cr
- GEY 1040 - Environmental Geology 4 cr

Total credits required: 18 cr

## **Geography Minor (GEO)**

The Geography minor, offered by the HGEP Department, is designed to introduce students to the description and analysis of the Earth. Because Geography utilizes tools and techniques found in the natural sciences, social sciences, arts, and humanities, it is a "unifying" discipline that, as a minor, complements many majors offered at Castleton University.

Complete the following courses:

Six GEO courses, at least two of which must be at the 3000 level or above.

Total credits required: 18 cr

## **Global Studies Minor (GLB)**

The Global Studies minor is offered by the HGEP Department. The program enables students to complement their major by strengthening their understanding of and engagement with our globally integrated world.

**(A) Complete the introductory GLB course (3 cr):**

- GLB 1010 - Introduction to Global Studies 3 cr

**(B) Complete two of the following (6 cr):**

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- ECO 1040 - Global Economic Issues 3 cr
- GEO 2020 - World Regional Geography 3 cr
- HIS 1135 - Global History 3 cr
- POS 1030 - Comparative Politics and Government 3 cr

**(C) Electives (9 cr):**

Complete three courses above the 1000 level chosen from the courses listed for the Global Studies (BA.GLB) major. Electives must be selected from regions other than the United States. Prior approval by the Global Studies Coordinator is required.

## **History Minor (HIS)**

The 18-credit History minor is offered by the HGEP Department. Upon completion of the History minor, students will be prepared to understand the role of the past in causing current events, conflicts, and problems, and its richness as a source of possible solutions.

**Complete one of the following (3 cr):**

- HIS 1125 - The Ancient World 3 cr  
-OR-
- HIS 1135 - Global History 3 cr

**and complete one of the following (3 cr):**

- HIS 1215 - Survey of Early U.S. History 3 cr  
-OR-
- HIS 1225 - Survey of Modern U.S. History 3 cr

**and complete 12 additional credits in History (HIS) at the 2000-level or above.**

Note: No more than 3 credits of Independent Study, and no more than 6 credits in other disciplines cross-listed under History, may be used to fulfill the requirements of the History Minor.

## **Political Science Minor (POS)**

The Political Science Minor is offered by the HGEP Department. Upon completion of the minor, students will be able to demonstrate understanding of the sources and exercise of power.

Complete 18 credits in Political Science, chosen in consultation with the Political Science Coordinator. No more than 6 credits in courses cross-listed in Political Science (POS) may be used to fulfill the Politics Minor requirements.

## Mathematics Department

*Department Chair: Assistant Professor Sue Generazzo*

The Mathematics Department is committed to the mission of Castleton University, and strives to prepare knowledgeable, creative, and compassionate citizens. Along with learning a variety of practical problem-solving techniques, students in all programs come to know the depth and beauty of mathematics and its important role within the liberal arts and society. The department's programs, internships, and tutorial experiences are designed to help students develop self-awareness, confidence, the ability to work with others, and to foster continued intellectual growth.

For students interested in teaching mathematics, we offer two programs: a Bachelor of Arts in Mathematics for middle and high school teaching, and a Bachelor of Arts in Mathematics for elementary school teaching. Mathematics teachers play a critical role in our society, and students who complete these programs are in great demand.

For students who want to combine mathematics, statistics, and applications, we offer a Bachelor of Arts in Mathematics with a statistics concentration. This program prepares students for a variety of high-demand careers in industry and government, or for further study.

For students who aren't planning to teach and want to leave their options open, we offer a Bachelor of Arts in Mathematics. This program gives students the practical and theoretical foundation to be successful in a business environment, or for further study in mathematics or related disciplines.

Finally, for students who wish to design their own program of study, we offer the Bachelor of Arts in Mathematics by Contract.

Whichever option is chosen, students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

In addition, students who complete programs leading to teaching:

1. Acquire a strong foundation in both mathematics content and teaching methods,
2. Gain experience working with students through tutorships and internships.

For more information please visit our website at [www.castleton.edu/Mathematics/index.htm](http://www.castleton.edu/Mathematics/index.htm)

## Bachelor's Degrees

### Mathematics (BA.MAT)

Students who complete the Mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,

3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

Complete the following courses (39 cr):

- CIS 2031 - C/C++ Programming I 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr
- MAT 2533 - Calculus III 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3220 - Probability 3 cr
- MAT 3230 - Mathematical Statistics 3 cr
- MAT 3310 - Differential Equations 3 cr
- MAT 3410 - Foundations of Mathematics 3 cr
- MAT 4110 - Advanced Calculus 3 cr
- MAT 4130 - Abstract Algebra 3 cr
- MAT 4720 - Senior Seminar 3 cr

and complete 4 courses selected from the following (12 cr):

- BUS 4130 - Quantitative Business Decisions 3 cr
- MAT 2550 - Mathematics: A Cultural Perspective 3 cr
- MAT 3250 - Applied Statistics 3 cr
- MAT 4140 - Geometry 3 cr
- MAT 4710 - Topics in Mathematics 1-3 cr (may be repeated)

(Credits required for the major: 51 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

In addition, Foreign language proficiency is recommended (12 credits or equivalent)

## **Mathematics: Elementary Education (BA.MAT.EED)**

This major is for students interested in teaching mathematics at the elementary school level . Mathematics teachers play a critical role in our society, and students who complete this program are in great demand.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

In addition, students who complete a program leading to teaching:

1. Acquire a strong foundation in both mathematics content and teaching methods,
2. Gain experience working with students through tutorships and internships.

To be accepted into the BA.MAT.EED program, students must obtain a positive letter of recommendation from a faculty member; receive approval from the Mathematics Department chair; select an academic advisor in the Mathematics Department.

### Complete the following courses (37 cr):

- MAT 1020 - Intermediate Algebra 3 cr
- MAT 1221 - Finite Mathematics 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2550 - Mathematics: A Cultural Perspective 3 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr
- MAT 3020 - Mathematics for Elementary Teachers 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3820 - Mathematics Tutorship 1-3 cr (3 cr required)
- MAT 4140 - Geometry 3 cr
- MAT 4210 - Teachers as Researchers 2 cr
- MAT 4720 - Senior Seminar 3 cr

and at least 1 of the following courses (3 cr):

- MAT 3220 - Probability 3 cr
- MAT 3310 - Differential Equations 3 cr
- MAT 4710 - Topics in Mathematics 1-3 cr

(Subtotal of Math credits required: 40 cr)

and complete all Education Department requirements for Elementary Education.

## **Mathematics: Major-by-Contract (BA.MAT.CNT)**

The Bachelor of Arts in Mathematics by Contract is for students who wish to design their own program of study.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

Students must complete a contract designed and signed by the student and a Mathematics faculty sponsor and approved by the Mathematics Department chair. The contract must include at least 30 credits in mathematics and 24 credits in a second discipline. Normally the contract is approved by the time the student has reached the fifth semester or 75 credits.

NOTE: Those students wishing to have education as the second discipline should opt for BA.MAT.SED OR BA.MAT.EED since all Education Department requirements for Elementary Education and Secondary Education must be satisfied for a teaching degree.

## **Mathematics: Secondary Education (BA.MAT.SED)**

This major is for students interested in teaching mathematics at the middle and high school level. Mathematics teachers play a critical role in our society, and students who complete this program are in great demand.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

In addition, students who complete a program leading to teaching:

1. Acquire a strong foundation in both mathematics content and teaching methods,
2. Gain experience working with students through tutorships and internships.

To be accepted into the BA.MAT.SED program, students must obtain a positive letter of recommendation from a faculty member; receive approval from the Mathematics Department chair; and select an academic advisor in the Mathematics Department.

### **Complete the following courses (42 cr):**

- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr
- MAT 2533 - Calculus III 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3220 - Probability 3 cr
- MAT 3230 - Mathematical Statistics 3 cr
- MAT 3310 - Differential Equations 3 cr
- MAT 3410 - Foundations of Mathematics 3 cr
- MAT 3820 - Mathematics Tutorship 1-3 cr (3 cr required)
- MAT 3035 - Teaching Mathematics I 3 cr
- MAT 4130 - Abstract Algebra 3 cr
- MAT 4140 - Geometry 3 cr
- MAT 4720 - Senior Seminar 3 cr

### **and at least 1 of the following courses (3 cr):**

- MAT 2550 - Mathematics: A Cultural Perspective 3 cr
- MAT 4710 - Topics in Mathematics 1-3 cr
- MAT 4035 - Teaching Mathematics II 3 cr

**(Subtotal of Math credits required: 45 cr)**

And complete all Education Department requirements for Secondary Education.

## **Mathematics: Statistics (BA.MAT.STA)**

This major is for students who want to combine mathematics, statistics, and applications. This program prepares students for a variety of high-demand careers in industry and government, or for further study.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

Complete the following courses (39 cr):

- CIS 2031 - C/C++ Programming I 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr
- MAT 2533 - Calculus III 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3220 - Probability 3 cr
- MAT 3230 - Mathematical Statistics 3 cr
- MAT 3250 - Applied Statistics 3 cr
- MAT 3410 - Foundations of Mathematics 3 cr
- MAT 4010 - Design of Experiments 3 cr
- MAT 4020 - Applied Linear Regression 3 cr
- MAT 4720 - Senior Seminar 3 cr

and complete 4 courses selected from the following (12 cr):

- MAT 3310 - Differential Equations 3 cr
- MAT 4110 - Advanced Calculus 3 cr
- MAT 4140 - Geometry 3 cr
- BUS 4030 - Marketing Research 3 cr
- BUS 4110 - Operations Management 3 cr
- BUS 4130 - Quantitative Business Decisions 3 cr

(Credits required for the major: 51 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.



## Minors

### Mathematics Minor (MAT)

This minor is offered by the Mathematics Department.

Complete the following courses:

- MAT 1531 - Calculus I 4 cr
- MAT 2021 - Statistics I 3 cr  
OR MAT 3220 - Probability 3 cr
- MAT 2532 - Calculus II 4 cr
- MAT 3210 - Linear Algebra 3 cr
- And two additional 3000 or 4000 level MAT courses 6 cr

Total credits required: 20 cr

### Statistics Minor (STA)

The Statistics Minor is offered by the Mathematics Department.

Complete the following courses (13 cr):

- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr
- MAT 3250 - Applied Statistics 3 cr
- MAT 1531 - Calculus I 4 cr

and complete at least 6 credits from the following:

- BUS 4030 - Marketing Research 3 cr
- BUS 4110 - Operations Management 3 cr
- BUS 4130 - Quantitative Business Decisions 3 cr
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 2112 - Organic Chemistry II 4 cr
- MAT 4010 - Design of Experiments 3 cr
- MAT 4020 - Applied Linear Regression 3 cr
- PED 4920 - Senior Research Project 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- SOC 3910 - Research Methods 4 cr
- or other courses approved by the Mathematics Department

Total credits required: 19 cr

# Music Department

*Department Chair: Associate Professor Sherrill Blodget*

The Music Department offers programs of study leading to a Bachelor of Arts degree in Music and a Bachelor of Music in Music Education. These programs blend the performance, pedagogical, and theoretical components of music to allow the student to grow musically, pursue individual interests and prepare for varied career opportunities. The Music Department Handbook gives details on all aspects of the Department and its programs.

The Objectives of the Music Department are to prepare students to be able to:

1. Demonstrate technical proficiency and artistry on their primary instrument or voice;
2. Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction;
3. Understand music in depth through the study of music literature, history, theory and research;
4. Enrich their community through music performance, education and/or scholarly activity.

Student learning outcomes align with the three core requirements, all graduates must attain competency in these three areas as outlined by the music faculty:

Basic musicianship  
Performance  
Historical and cultural contextualization

Music Education students' learning outcomes additionally include teaching pedagogies as outlined by the music department and the Vermont Department of Education.

For more information please visit your website at [www.castleton.edu/music/index.htm](http://www.castleton.edu/music/index.htm)

## Bachelor's Degrees

### Music (BA.MUS)

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.
- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

All students majoring in music must complete the courses listed below, each with a grade of "C" or better.

They must also demonstrate proof of keyboard skills by passing a piano proficiency test administered by the Music Department.

In their senior year, students are encouraged to complete one of the following activities: perform a major solo in a Department Recital, perform a major solo with a department performance ensemble, or submit a culminating project. *(Note that this does not apply to students with a concentration in Performance or concentration in Musical Theater, as such students perform a Senior Recital.)*

**Complete the following courses (35 cr):**

- MUS 1041 - Class Piano I 2 cr
- MUS 1042 - Class Piano II 2 cr
- MUS 1091 - Sight Singing and Ear Training I 1 cr
- MUS 1092 - Sight Singing and Ear Training II 1 cr
- MUS 1120L - Performance Lab 0 cr
- MUS 1231 - Music Theory I 3 cr
- MUS 1232 - Music Theory II 3 cr
- MUS 2020 - Instrumental and Vocal Arranging 3 cr
- MUS 2031 - History of Western Music: Ancient to Baroque 3 cr
- MUS 2032 - History of Western Music: Classical to Modern 3 cr
- MUS 2051 - Conducting I 3 cr
- MUS 2052 - Conducting II 3 cr
- MUS 3015 - Music Theory and Aural Skills III 4 cr
- MUS 4015 - Music Theory and Aural Skills IV 4 cr

And complete a minimum of 7 semesters in Applied Music in the primary applied area (a minimum of 1 credit each semester: 7 cr)

And complete 7 credits in Ensemble participation chosen from:

- MUS 1210 - Chorus: University Chorale 0-1 cr (1 credit each semester)
- MUS 1220 - Wind Ensemble 0-1 cr (1 credit each semester)
- MUS 1230 - Jazz Ensemble 0-1 cr (guitar, bass, piano, 1 credit each semester)
- Or an equivalent experience approved by the department *a priori*.

(Credits required for the major: 49 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Music Education (BM.EDU)**

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.
- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

Music Education Majors must complete the BA.MUS requirements, and complete the following courses with a grade of "C" or better:

Complete all of these courses (39 cr):

- MUS 1080 - Global Music 3 cr
- MUS 1090 - Foundations of Music Education 3 cr
- MUS 1520 - Spartan Marching Band 0-1 cr (1 cr required)
- MUS 2030 - Early Field Experience in Music Education 1 cr
- MUS 2060 - Introduction to Exceptional Populations in Music Education 3 cr
- MUS 2110 - Vocal Pedagogy 2 cr
- MUS 2115 - Jazz Pedagogy 2 cr
- MUS 3165 - Methods of Teaching General Music preK-12 3 cr
- MUS 3166 - Methods of Teaching Choral Music 2 cr
- MUS 3250 - Assessment of Musical Experiences 3 cr
- MUS 3315 - Methods of Teaching Instrumental Music 2 cr
- MUS 4610 - Seminar in Teaching Music 1 cr
- MUS 4720 - Senior Recital 1 cr
- MUS 4871 - Directed Student Teaching I 6 cr
- MUS 4872 - Directed Student Teaching II 6 cr

And, in consultation with a music education advisor, complete 3 of the following courses (6 cr):

- MUS 2120 - String Instrument Teaching Methods 2 cr
- MUS 2130 - Woodwind Instrument Teaching Methods 2 cr
- MUS 2140 - Brass Instrument Teaching Methods 2 cr
- MUS 2240 - Percussion Instrument Teaching Methods 2 cr

And complete one of the following courses (3 cr):

- PSY 1050 - Human Growth and Development 3 cr
- PSY 2110 - Educational Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

Credits required for the major: 48 (BM in Music Education) + 49 (BA in Music) = 97 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

To be accepted into Student Teaching, the student must:

- Achieve an overall GPA of 3.0; or written certification of intellectual competence by an academic dean.
- Complete all Music and Music Education coursework; or obtain permission of the supervising music education faculty.
- Complete the Music Education Application to Student Teach form.
- Pass the Praxis Core Academic Skills Test for Educators and appropriate Praxis II examinations before teaching.

NOTE: The State of Vermont may require a specific Praxis II music test in the future (currently either of the two music education exams is accepted).

- Complete a minimum of 60 scheduled hours of field experience through related course work.

NOTE: A student may be denied admission to student teach if, in the professional judgment of the music education faculty, the student does not possess the maturity, judgment, ethical standards, and dedication expected in the teaching profession.

### To be recommended for licensure the student must:

- Complete all university and departmental course requirements.
- Pass the Praxis Core Academic Skills Test for Educators and the Praxis II examination.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Receive a grade of "B" or better in Student Teaching I, II, and Student Teaching Seminar.
- Complete all coursework with a cumulative GPA of 3.0

NOTE: A student may be advised to discontinue the student teaching experience at any time if, in the professional judgment of the university supervisor, the director of field experience and cooperating teacher, the student does not possess the attitudes and competencies noted above.

## Music: Musical Theater (BA.MUS.MTH)

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.
- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

All students majoring in music must complete the courses listed below, each with a grade of "C" or better.

They must also demonstrate proof of keyboard skills by passing a piano proficiency test administered by the Music Department.

### Complete the following courses (49 cr):

- MUS 1041 - Class Piano I 2 cr
- MUS 1042 - Class Piano II 2 cr
- MUS 1091 - Sight Singing and Ear Training I 1 cr
- MUS 1092 - Sight Singing and Ear Training II 1 cr
- MUS 1115 - Musical Pit/Vocal 0-1 cr Take for 4 semesters @ 1 cr each (4 cr total)
- MUS 1120L - Performance Lab 0 cr
- MUS 1231 - Music Theory I 3 cr
- MUS 1232 - Music Theory II 3 cr
- MUS 2020 - Instrumental and Vocal Arranging 3 cr
- MUS 2031 - History of Western Music: Ancient to Baroque 3 cr
- MUS 2032 - History of Western Music: Classical to Modern 3 cr
- MUS 2051 - Conducting I 3 cr

- MUS 2052 - Conducting II 3 cr
- MUS 3015 - Music Theory and Aural Skills III 4 cr
- MUS 4015 - Music Theory and Aural Skills IV 4 cr
- MUS 4720 - Senior Recital 1 cr
- THA 2121 - Acting I 3 cr
- THA 2122 - Acting II 3 cr
- THA 2160 - History of Musical Theater 3 cr

And complete a minimum of 7 semesters in Applied Music in the primary applied area (a minimum of 1 credit each semester: 7 cr)

And complete 7 credits in Ensemble participation chosen from:

- MUS 1210 - Chorus: University Chorale 0-1 cr (1 credit each semester)
- MUS 1220 - Wind Ensemble 0-1 cr (1 credit each semester)
- MUS 1230 - Jazz Ensemble 0-1 cr (guitar, bass, piano, 1 credit each semester)
- Or an equivalent experience approved by the department *a priori*.

(Credits required for the major: 63 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Music: Performance (BA.MUS.PER)**

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.
- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

All students majoring in music must complete the courses listed below, each with a grade of "C" or better.

They must also demonstrate proof of keyboard skills by passing a piano proficiency test administered by the Music Department.

Complete the following courses (35 cr):

- MUS 1041 - Class Piano I 2 cr
- MUS 1042 - Class Piano II 2 cr
- MUS 1091 - Sight Singing and Ear Training I 1 cr
- MUS 1092 - Sight Singing and Ear Training II 1 cr
- MUS 1120L - Performance Lab 0 cr
- MUS 1231 - Music Theory I 3 cr

- MUS 1232 - Music Theory II 3 cr
- MUS 2020 - Instrumental and Vocal Arranging 3 cr
- MUS 2031 - History of Western Music: Ancient to Baroque 3 cr
- MUS 2032 - History of Western Music: Classical to Modern 3 cr
- MUS 2051 - Conducting I 3 cr
- MUS 2052 - Conducting II 3 cr
- MUS 3015 - Music Theory and Aural Skills III 4 cr
- MUS 4015 - Music Theory and Aural Skills IV 4 cr

And complete a minimum of 14 credits in Applied Music in the primary applied area (a minimum of 2 credits each semester)

- MUS 3243 - Applied Performance - Flute 2 cr
- MUS 3253 - Applied Performance - Oboe 2 cr
- MUS 3263 - Applied Performance- Bassoon 2 cr
- MUS 3273 - Applied Performance- Clarinet 2 cr
- MUS 3313 - Applied Performance- Saxophone 2 cr
- MUS 3323 - Applied Performance- Trumpet 2 cr
- MUS 3333 - Applied Performance- French Horn 2 cr
- MUS 3343 - Applied Performance- Trombone 2 cr
- MUS 3353 - Applied Performance- Tuba 2 cr
- MUS 3363 - Applied Performance- Percussion 2 cr
- MUS 3373 - Applied Performance- Violin 2 cr
- MUS 3383 - Applied Performance- Jazz Piano 2 cr
- MUS 3413 - Applied Performance- Viola 2 cr
- MUS 3423 - Applied Performance- Cello 2 cr
- MUS 3433 - Applied Performance- String Bass 2 cr
- MUS 3443 - Applied Performance- Piano 2 cr
- MUS 3453 - Applied Performance- Electric Guitar 2 cr
- MUS 3463 - Applied Performance- Classical Guitar 2 cr
- MUS 3473 - Applied Performance- Voice 2 cr
- MUS 3483 - Applied Performance- Electric Bass 2 cr
- MUS 3493 - Applied Performance- Euphonium 2 cr

And complete 7 credits in Ensemble participation chosen from:

- MUS 1210 - Chorus: University Chorale 0-1 cr (1 credit each semester)
- MUS 1220 - Wind Ensemble 0-1 cr (1 credit each semester)
- MUS 1230 - Jazz Ensemble 0-1 cr (guitar, bass, piano, 1 credit each semester)
- Or an equivalent experience approved by the department *a priori*.

And complete these courses (4 cr):

Take 1 of these:

- MUS 3283 - Collaborative Piano 1 cr (take for 2 semesters: 2 cr total)  
**OR** MUS 3743 - Advanced Applied Performance Coaching 1 cr (take for 2 semesters: 2 cr total)

And take both of these:

- MUS 3420 - Junior Recital 1 cr
- MUS 4720 - Senior Recital 1 cr

And, in consultation with your advisor, complete 5 additional credits, selected from:

- MUS 2110 - Vocal Pedagogy 2 cr
- MUS 2120 - String Instrument Teaching Methods 2 cr
- MUS 2130 - Woodwind Instrument Teaching Methods 2 cr
- MUS 2140 - Brass Instrument Teaching Methods 2 cr
- MUS 2240 - Percussion Instrument Teaching Methods 2 cr
- MUS 3180 - Music Literature Seminar 3 cr
- MUS 3275 - Diction for Singers 3 cr

(Credits required for the major: 65 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Minors**

### **Music Minor (MUS)**

A minor in Music may be earned by completing a minimum of 18 credits in Music, 9 of which must be at the 2000 level or above, each with a grade of "C" or better.

The courses must be chosen in consultation with an advisor in the Music Department.

## **Graduate Degrees**

### **MM in Music Education**

Master of Music in Music Education: **see the Graduate Catalog**

## **Natural Sciences Department**

*Department Chair: Professor Timothy Grover*

*Biology Coordinator: Assistant Professor Preston Garcia*

*Environmental Science Coordinator: Professor Cynthia Moulton*

*Exercise Science Coordinator: Assistant Professor Justin Carlstrom*

*Geology Coordinator: Professor Timothy Grover*

*Health Science Coordinator: Professor Peter Kimmel*



The Natural Sciences Department offers Bachelor of Arts or Sciences degrees Biology (BS.BIO), Environmental Science (BS.ENV), Exercise Science (BS. EXS), Geology (BS.GEY), and Health Science (BS.HLT).

Students who complete a degree program in the Natural Sciences department will:

- Exhibit mastery of the fundamental concepts of their discipline and the ability to apply those concepts to contemporary issues.
- Research, synthesize, and communicate scientific ideas.
- Demonstrate proficiency in laboratory skills and quantitative analysis.
- Secure appropriate employment or gain admission to a graduate or professional program of study.
- Develop a lifelong interest in science.

## **Premedical Program**

Professional schools recommend a strong preparation in science and the other liberal arts, as well as involvement in endeavors such as internships in hospitals or clinics. Students should identify their interest early so that a program of study can be developed which is most appropriate for their chosen profession. Interested students should contact Dr. Peter Kimmel for further information and assistance.

## **Elementary and Secondary Education Programs**

The Natural Sciences Department is committed to providing outstanding science teachers to the region. Prospective elementary teachers should complete the Bachelor of Arts in Multidisciplinary Studies (MDS) with a concentration in science, and should have academic advisors in both the Natural Sciences Department and the Education Department. Additional science pedagogy labs are strongly recommended. The requirements for licensure listed under the Education Department's programs must also be completed. Prospective secondary teachers should complete a major in Biology, Environmental Science or Geology and then pursue licensure. A minor in Chemistry and additional Mathematics courses are also recommended.

For more information please visit our website at <http://www.castleton.edu/academics/undergraduate-programs/natural-sciences/>

## **Bachelor's Degrees**

### **Biology (BS.BIO)**

*For further information about this major, contact the Biology Coordinator (Dr. Preston Garcia): [Preston.Garcia@Castleton.edu](mailto:Preston.Garcia@Castleton.edu)*

A comprehensive program in biology that prepares students for admission into graduate schools, admission into professional schools, a career in biology, or a career in secondary education. The program includes a capstone research project and presentation requirement that integrates students' knowledge across the biological and physical sciences and demonstrates their quantitative, intellectual, and communication skills.

Students completing the Bachelor of Science in Biology will demonstrate:

Knowledge and Understanding of Biological Concepts

- Ability to define and explain the boundaries, foundational theoretical constructs, and practices in the major subdivisions of biology: Evolution and Diversity of Life, Ecology, Organismal Biology, Cellular and Molecular Biology, and Genetics.
- Fluency in the use of tools, technologies, and methods in the laboratory and natural environment.
- Ability to construct a summative project or paper that draws on current research, scholarship, and/or techniques in the field of biology.

#### Intellectual Skills

- Ability to make systematic observations, construct hypotheses, and make predictions, design and experiment, interpret data, and form conclusions based on the data.
- Ability to locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Ability to communicate scientific information, both orally and in writing, according to accepted practices in the field of biology.
- Ability to use appropriate mathematical and statistical methods to evaluate and interpret biological data.
- Ability to integrate the physical sciences (chemistry and physics) with biology.

#### Civic Learning

- A clear understanding of the issues and involvement of biology in modern society.

### Complete the following courses (54 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- BIO 2010 - Cell and Molecular Biology **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- BIO 3060 - Ecology **4 cr**  
**OR** BIO 3065 - Plant Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**
- BIO 4030 - Evolution **4 cr**
- BIO 4610 - Scientific Communication Capstone I **2 cr**
- BIO 4620 - Scientific Communication Capstone II **2 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
- CHE 2111 - Organic Chemistry I **4 cr**
- MAT 2036 - Biostatistics **4 cr**
- PHY 1051 - General Physics I **4 cr**  
**OR** PHY 2110 - Physics I **4 cr**
- SCI 1230 - Pathways to Science **1 cr**
- SCI 2100 - Science Colloquium **1 cr**

*Note: MAT 1531 - Calculus I is recommended for students planning application to graduate school.*

### And complete 12 additional BIO credits at the 3000 level or higher

The 12 credits cannot include internships, independent studies, or teaching assistantships.

No more than 3 credits of BIO 4930 - Research Project will be counted toward the 12 credits of upper-level elective credits.

(Credits required for the major: 66 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Note on research

To perform the significant research activity necessary to complete the capstone project, students may elect to enroll in:

- 3-6 credits of BIO 4930 - Research Project under the supervision of a Castleton Biology faculty member,
- OR 3-6 credits of BIO 4810 - Internship in Biology,
- OR a summer undergraduate research experience at another institution (e.g. NSF REU).

## Pharmacy Degree (CU/ACPHS 3+4)

This major participates in the 3+4 program with Albany School of Pharmacy & Health Sciences, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS.

For details, see the Pharmacy Degree page.

## **Biology: Ecology and Evolutionary Biology (BS.BIO.EEB)**

*For further information about this major, contact the Biology Coordinator (Dr. Preston Garcia): [Preston.Garcia@Castleton.edu](mailto:Preston.Garcia@Castleton.edu)*

A comprehensive program in biology that prepares students for admission into graduate schools, admission into professional schools, a career in biology, or a career in secondary education. The program includes a capstone research project and presentation requirement that integrates students' knowledge across the biological and physical sciences and demonstrates their quantitative, intellectual, and communication skills.

Students completing the Bachelor of Science in Biology will demonstrate:

### Knowledge and Understanding of Biological Concepts

- Ability to define and explain the boundaries, foundational theoretical constructs, and practices in the major subdivisions of biology: Evolution and Diversity of Life, Ecology, Organismal Biology, Cellular and Molecular Biology, and Genetics.
- Fluency in the use of tools, technologies, and methods in the laboratory and natural environment.
- Ability to construct a summative project or paper that draws on current research, scholarship, and/or techniques in the field of biology.

### Intellectual Skills

- Ability to make systematic observations, construct hypotheses, and make predictions, design and experiment, interpret data, and form conclusions based on the data.
- Ability to locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Ability to communicate scientific information, both orally and in writing, according to accepted practices in the field of biology.

- Ability to use appropriate mathematical and statistical methods to evaluate and interpret biological data.
- Ability to integrate the physical sciences (chemistry and physics) with biology.

#### Civic Learning

- A clear understanding of the issues and involvement of biology in modern society.

## BS in Biology with a Concentration in Ecology and Evolutionary Biology

The EEB Concentration is designed for students interested in admission to graduate school programs in ecology, evolution, or organismal biology.

### Complete the following courses required of all BIO majors (54 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- BIO 2010 - Cell and Molecular Biology **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- BIO 3060 - Ecology **4 cr**  
**OR** BIO 3065 - Plant Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**  
**OR** BIO 4035 - Advanced Molecular Biology
- BIO 4030 - Evolution **4 cr**
- BIO 4610 - Scientific Communication Capstone I **2 cr**
- BIO 4620 - Scientific Communication Capstone II **2 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
- CHE 2111 - Organic Chemistry I **4 cr**
- MAT 2036 - Biostatistics **4 cr**
- PHY 1051 - General Physics I **4 cr**  
**OR** PHY 2110 - Physics I **4 cr**
- SCI 1230 - Pathways to Science **1 cr**
- SCI 2100 - Science Colloquium **1 cr**

*Note: MAT 1531 - Calculus I is recommended for students planning application to graduate school.*

### And complete 4 of these courses for the Concentration in EEB (14-16 cr):

- BIO 3030 - Ecology of Water **3 cr**
- BIO 3065 - Plant Ecology **4 cr** \*
- BIO 3070 - Genetics **4 cr** \*
- BIO 3160 - Animal Behavior **4 cr**
- BIO 3210 - Developmental Biology **4 cr**
- BIO 3350 - Natural History of the Mojave Desert **4 cr**
- BIO 4035 - Advanced Molecular Biology **4 cr**
- BIO 4250 - Ecotoxicology **3 cr**

\* may only count for elective OR core biology credit

(Credits required for the major: 68-70 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Note on research

To perform the significant research activity necessary to complete the capstone project (BIO 4620), students may elect to enroll in:

- 3-6 credits of BIO 4930 - Research Project under the supervision of a Castleton Biology faculty member,
- OR 3-6 credits of BIO 4810 - Internship in Biology,
- OR a summer undergraduate research experience at another institution (e.g. NSF REU).

## **Biology: Molecular Biology and Biomedicine (BS.BIO.MBB)**

*For further information about this major, contact the Biology Coordinator (Dr. Preston Garcia): [Preston.Garcia@Castleton.edu](mailto:Preston.Garcia@Castleton.edu)*

A comprehensive program in biology that prepares students for admission into graduate schools, admission into professional schools, a career in biology, or a career in secondary education. The program includes a capstone research project and presentation requirement that integrates students' knowledge across the biological and physical sciences and demonstrates their quantitative, intellectual, and communication skills.

Students completing the Bachelor of Science in Biology will demonstrate:

### Knowledge and Understanding of Biological Concepts

- Ability to define and explain the boundaries, foundational theoretical constructs, and practices in the major subdivisions of biology: Evolution and Diversity of Life, Ecology, Organismal Biology, Cellular and Molecular Biology, and Genetics.
- Fluency in the use of tools, technologies, and methods in the laboratory and natural environment.
- Ability to construct a summative project or paper that draws on current research, scholarship, and/or techniques in the field of biology.

### Intellectual Skills

- Ability to make systematic observations, construct hypotheses, and make predictions, design and experiment, interpret data, and form conclusions based on the data.
- Ability to locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Ability to communicate scientific information, both orally and in writing, according to accepted practices in the field of biology.
- Ability to use appropriate mathematical and statistical methods to evaluate and interpret biological data.
- Ability to integrate the physical sciences (chemistry and physics) with biology.

### Civic Learning

- A clear understanding of the issues and involvement of biology in modern society.

## BS in Biology with a Concentration in Molecular Biology and Biomedicine

The MBB Concentration is specially designed for students interested in careers in medicine (pre-medical, -dental, or -veterinary school), pharmaceutical sciences, or biomedical research.

Complete the following courses required of all BIO majors (54 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- BIO 2010 - Cell and Molecular Biology **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- BIO 3060 - Ecology **4 cr**  
**OR** BIO 3065 - Plant Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**
- BIO 4030 - Evolution **4 cr**
- BIO 4610 - Scientific Communication Capstone I **2 cr**
- BIO 4620 - Scientific Communication Capstone II **2 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
- CHE 2111 - Organic Chemistry I **4 cr**
- MAT 2036 - Biostatistics **4 cr**
- PHY 1051 - General Physics I **4 cr**  
**OR** PHY 2110 - Physics I **4 cr**
- SCI 1230 - Pathways to Science **1 cr**
- SCI 2100 - Science Colloquium **1 cr**

*Note: MAT 1531 - Calculus I is recommended for students planning application to graduate school.*

And complete these courses for the Concentration in MBB (14-16 cr):

- complete both of these courses:
- CHE 3011 - Biochemistry with Discussion **4 cr**
  - PHY 2210 - Physics II **4 cr**
- and complete two of these courses:
- BIO 3090 - Virology **3 cr**
  - BIO 3151 - Physiology of Exercise **4 cr**
  - BIO 3210 - Developmental Biology **4 cr**
  - BIO 3240 - Advanced Human Physiology **3 cr**
  - BIO 4360 - Immunology **3 cr**
  - BIO 4035 - Advanced Molecular Biology **4 cr**

(Credits required for the major: 68-70 cr)

## And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

Students interested in admission to medical school should choose one or more of the following as part of their Gen Ed requirement:

- ANT 1010 - Introduction to Cultural Anthropology
- PHI 3020 - Medical Ethics
- PSY 1012 - Introduction to Psychological Science
- SOC 1010 - Introduction to Sociology

## Note on research

To perform the significant research activity necessary to complete the capstone project (BIO 4620), students may elect to enroll in:

- 3-6 credits of BIO 4930 - Research Project under the supervision of a Castleton Biology faculty member,
- OR 3-6 credits of BIO 4810 - Internship in Biology,
- OR a summer undergraduate research experience at another institution (e.g. NSF REU).

## Pharmacy Degree (CU/ACPHS 3+4)

This major participates in the 3+4 program with Albany School of Pharmacy & Health Sciences, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS.

For details, see the Pharmacy Degree page.

## Chemistry (BS.CHE)

Chemistry is the study of the properties of matter and the ways in which matter interacts, combines and changes. It is inherently interdisciplinary in nature, with connections to the life sciences, geology, physics and mathematics.

The Chemistry major consists of a set of core chemistry, physics, and mathematics courses plus a flexible selection of upper level courses. This allows students to explore topics of interest and prepare for a wide range of graduate programs, careers and professions. All Chemistry majors will develop strong laboratory skills and have experience with state-of-the-art scientific instrumentation.

Students completing the Bachelor of Science in Chemistry will demonstrate:

- Proficiency in laboratory skills related to safety, use of equipment and instrumentation, and solution preparation.
- Ability to develop a systematic method of analysis in order to answer a scientific question.
- Understanding of basic chemical principles of chemical structure, bonding, reactivity, equilibrium, thermodynamics, and kinetics.
- Understanding of qualitative and quantitative instrumentation (tools) used by the chemist to characterize samples of all states of matter.

- Ability to communicate scientific findings (understandings) both orally and in the written form.
- Ability to search the current Chemistry literature of peer reviewed journals to extract information of interest.
- Understanding of Quantum Mechanics and its relationship to energy of bonds, molecules, and reactions.

If desired, students may choose a Biochemistry or Environmental Chemistry concentration:

- The concentration in Biochemistry prepares students for careers and advanced studies in biology, chemistry, pharmacology, and medicine.
- The concentration in Environmental Chemistry prepares students for careers and advanced studies in analytical chemistry, environmental remediation and engineering, laboratory positions, and other environmentally relevant fields. This concentration provides a more theoretical background than the Environmental Science major.

(The BS in Chemistry cannot be combined with a BS in Biology or BS in Environmental Science.)

## Complete the following courses (53 cr):

- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
  - CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
  - CHE 2111 - Organic Chemistry I **4 cr**
  - CHE 2112 - Organic Chemistry II **4 cr**
  - CHE 3020 - Analytical Chemistry **4 cr**
  - CHE 3031 - Physical Chemistry I **4 cr**
  - CHE 3032 - Physical Chemistry II **4 cr**
  - CHE 3150 - Inorganic Chemistry **3 cr**
  - MAT 1531 - Calculus I **4 cr**
  - MAT 2532 - Calculus II **4 cr**
  - PHY 2110 - Physics I **4 cr**
  - PHY 2210 - Physics II **4 cr**
  - SCI 1230 - Pathways to Science **1 cr** (should be taken during the freshman year)
  - SCI 2100 - Science Colloquium **1 cr** (mandatory during sophomore year; recommended during junior and senior years; however, only 1 credit counts toward the major)
- And take ONE of the following:
- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
  - MAT 2036 - Biostatistics **4 cr**

## And complete 9 additional credits at the 3000 level or higher

The 9 credits must have CHE prefixes. Up to 3 credits may be earned through CHE 4920 - Research in Chemistry

(Total credits required: 62 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Chemistry: Biochemistry (BS.CHE.BCH)**



Chemistry is the study of the properties of matter and the ways in which matter interacts, combines and changes. It is inherently interdisciplinary in nature, with connections to the life sciences, geology, physics and mathematics.

The Chemistry major consists of a set of core chemistry, physics, and mathematics courses plus a flexible selection of upper level courses. This allows students to explore topics of interest and prepare for a wide range of graduate programs, careers and professions. All Chemistry majors will develop strong laboratory skills and have experience with state-of-the-art scientific instrumentation.

Students completing the Bachelor of Science in Chemistry will demonstrate:

- Proficiency in laboratory skills related to safety, use of equipment and instrumentation, and solution preparation.
- Ability to develop a systematic method of analysis in order to answer a scientific question.
- Understanding of basic chemical principles of chemical structure, bonding, reactivity, equilibrium, thermodynamics, and kinetics.
- Understanding of qualitative and quantitative instrumentation (tools) used by the chemist to characterize samples of all states of matter.
- Ability to communicate scientific findings (understandings) both orally and in the written form.
- Ability to search the current Chemistry literature of peer reviewed journals to extract information of interest.
- Understanding of Quantum Mechanics and its relationship to energy of bonds, molecules, and reactions.

(The BS in Chemistry cannot be combined with a BS in Biology or BS in Environmental Science.)

## BS in Chemistry with a Concentration in Biochemistry

The Biochemistry concentration prepares students for careers and advanced studies in biology, chemistry, pharmacology, and medicine.

### Complete the following courses (66 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- BIO 4035 - Advanced Molecular Biology **4 cr**
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
- CHE 2111 - Organic Chemistry I **4 cr**
- CHE 2112 - Organic Chemistry II **4 cr**
- CHE 3011 - Biochemistry with Discussion **4 cr**
- CHE 3016 - Enzyme Kinetics Laboratory **1 cr**
- CHE 3020 - Analytical Chemistry **4 cr**
- CHE 3031 - Physical Chemistry I **4 cr**
- CHE 3032 - Physical Chemistry II **4 cr**
- CHE 3150 - Inorganic Chemistry **3 cr**
- MAT 1531 - Calculus I **4 cr**
- MAT 2532 - Calculus II **4 cr**
- PHY 2110 - Physics I **4 cr**
- PHY 2210 - Physics II **4 cr**
- SCI 1230 - Pathways to Science **1 cr** (should be taken during the freshman year)
- SCI 2100 - Science Colloquium **1 cr** (mandatory during sophomore year; recommended during junior and senior years; however, only 1 credit counts toward the major)

And complete at least 9 credits from the following:

- BIO 3013 - Biogeochemistry 4 cr
- CHE 4020 - Advanced Organic Chemistry 3 cr
- CHE 4030 - Chemical Biology 3
- CHE 4920 - Research in Chemistry 2-6 cr (no more than 3 credits may count toward the major)

(Total credits required: 75 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Chemistry: Environmental Chemistry (BS.CHE.ENC)**

Chemistry is the study of the properties of matter and the ways in which matter interacts, combines and changes. It is inherently interdisciplinary in nature, with connections to the life sciences, geology, physics and mathematics.

The Chemistry major consists of a set of core chemistry, physics, and mathematics courses plus a flexible selection of upper level courses. This allows students to explore topics of interest and prepare for a wide range of graduate programs, careers and professions. All Chemistry majors will develop strong laboratory skills and have experience with state-of-the-art scientific instrumentation.

Students completing the Bachelor of Science in Chemistry will demonstrate:

- Proficiency in laboratory skills related to safety, use of equipment and instrumentation, and solution preparation.
- Ability to develop a systematic method of analysis in order to answer a scientific question.
- Understanding of basic chemical principles of chemical structure, bonding, reactivity, equilibrium, thermodynamics, and kinetics.
- Understanding of qualitative and quantitative instrumentation (tools) used by the chemist to characterize samples of all states of matter.
- Ability to communicate scientific findings (understandings) both orally and in the written form.
- Ability to search the current Chemistry literature of peer reviewed journals to extract information of interest.
- Understanding of Quantum Mechanics and its relationship to energy of bonds, molecules, and reactions.

(The BS in Chemistry cannot be combined with a BS in Biology or BS in Environmental Science.)

## **BS in Chemistry with a Concentration in Environmental Chemistry**

The Environmental Chemistry concentration prepares students for careers and advanced studies in analytical chemistry, environmental remediation and engineering, laboratory positions, and other environmentally relevant fields. This concentration provides a more theoretical background than the Environmental Science major.

Complete the following courses (63 cr):

- BIO 1121 - Biology I 4 cr (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology 4 cr

- BIO 3013 - Biogeochemistry 4 cr
- CHE 1051 - Chemistry I 4 cr (grade of C or higher required)
- CHE 1052 - Chemistry II 4 cr (grade of C or higher required)
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 2112 - Organic Chemistry II 4 cr
- CHE 3020 - Analytical Chemistry 4 cr
- CHE 3030 - Aqueous Geochemistry 3 cr
- CHE 3031 - Physical Chemistry I 4 cr
- CHE 3032 - Physical Chemistry II 4 cr
- CHE 3150 - Inorganic Chemistry 3 cr
- CHE 4010 - Environmental Kinetics and Chemical Fate 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr
- PHY 2110 - Physics I 4 cr
- PHY 2210 - Physics II 4 cr
- SCI 1230 - Pathways to Science 1 cr (should be taken during the freshman year)
- SCI 2100 - Science Colloquium 1 cr (mandatory during sophomore year; recommended during junior and senior years; however, only 1 credit counts toward the major)

And complete at least 6 credits from the following:

- CHE 3011 - Biochemistry with Discussion 4 cr
- CHE 4020 - Advanced Organic Chemistry 3 cr
- CHE 4030 - Chemical Biology 3
- CHE 4920 - Research in Chemistry 2-6 cr (no more than 3 credits may count toward the major)

(Total credits required: 69-70 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Ecological Studies (BA.ECS)**

*For further information about this major, contact Dr. Cynthia Moulton, the Ecological Studies Coordinator: [Cynthia.Moulton@Castleton.edu](mailto:Cynthia.Moulton@Castleton.edu)*

The B.A. in Ecological Studies offers students an opportunity to explore the science of ecology and the environment within the tradition of the liberal arts major. The multidisciplinary curriculum cultivates a broad understanding of the interconnectedness of living organisms and environmental systems, including the interactions between humans and the natural world.

Graduates will be prepared for careers in government and non-government environmental organizations as park naturalists, research/field technicians, wildlife specialists, environmental advocacy staff, nature writers, and outdoor educators. Additionally, some students may pursue graduate programs in science education, natural resource management, and environmental law/policy.

Further, students completing the degree requirements for the B.A. in Ecological Studies will have all necessary coursework required for professional certification through the Ecological Society of America.

## Complete the following courses (46-47 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- CHE 1041 - General Chemistry I **4 cr** (grade of C or higher required)
- CHE 1042 - General Chemistry II **4 cr** (grade of C or higher required)
- GEY 1030 - Dynamic Earth **4 cr**  
-OR- GEY 1050 - The Earth through Time **4 cr**
- MAT 1531 - Calculus I **4 cr**  
-OR- MAT 2036 - Biostatistics **4 cr**
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- GEO 2210 - Introduction to Geographic Information Systems **3 or 4 cr**  
-OR- SCI 2210 - Introduction to Geographic Information Systems **3 or 4 cr**
- BIO 3060 - Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**
- PHI 3160 - Environmental Ethics **3 cr**
- BIO 4030 - Evolution **4 cr**

## And complete three of the following courses (9-12 cr):

- BIO 3013 - Biogeochemistry **4 cr**
- BIO 3030 - Ecology of Water **3 cr**
- BIO 3065 - Plant Ecology **4 cr**
- BIO 3160 - Animal Behavior **4 cr**
- BIO 3350 - Natural History of the Mojave Desert **4 cr**
- BIO 4035 - Advanced Molecular Biology **4 cr**
- BIO 4250 - Ecotoxicology **3 cr**

(Credits required for the major: 55-59 cr)

## And complete a minor

Students majoring in Ecological Studies are required to complete a minor (approved by the program coordinator) in one of the many disciplines available at Castleton.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Recommendation

We strongly recommend that students complete an internship relating to their career goals.

## Note

The B.A. in Ecological Studies may not be combined with the BS.BIO, the BS.ENV, or a minor in Biology.

## Environmental Science (BS.ENV)

*For further information about this major, contact Dr. Andrew Vermilyea, the Environmental Science Coordinator:  
Andrew.vermilyea@castleton.edu*

This program integrates the scientific disciplines of biology, chemistry, and geology to provide students with a strong framework from which to analyze environmental problems and develop effective, sustainable solutions. Students earning a BS in Environmental Science will pursue both laboratory and field careers in government, industry, and the non-profit sector. This program prepares students for careers and graduate degree programs in related environmental fields such as toxicology, hydrology, systems ecology, plant ecology, and water chemistry.

Students completing the Bachelor of Science in Environmental Science will demonstrate:

### Scientific Literacy

- Read and comprehend various forms of scientific literature including primary science research papers and current topical environmental science articles and books.
- Locate and identify various forms of scientific text in support of a research topic.
- Derive and interpret scientific data, as well as recognize bias and sources of error in scientific information.
- Communicate environmental science issues to peers and broad audiences orally and through writing.

### Analytical Thinking and Problem Solving Skills

- Differentiate the validity of various sources of information, assess the relevance of information in solving environmental problems, and consider multiple options for solutions.
- Follow laboratory protocols, safety standards, and field study procedures.
- Understand the use and limitations of statistical tools and ecological models.
- Learn and use meaningful questions in order to design scientific studies.

### Knowledge and Understanding of Environmental Concepts

- Explain and describe geological processes, ecological principles, and chemical interactions as they relate to the causes and consequences of environmental issues.
- Recognize that solutions to environmental problems such as climate change, population growth, biodiversity decline, pollution, and others involve an integrated multidisciplinary approach involving scientific and societal considerations.

## Complete the following courses (56-57 cr):

- BIO 1121 - Biology I **4 cr** \*
- BIO 1122 - Biology II **4 cr** \*
- CHE 1051 - Chemistry I **4 cr** \*
- CHE 1052 - Chemistry II **4 cr** \*
- GEY 1030 - Dynamic Earth **4 cr**
- MAT 1531 - Calculus I **4 cr**
- BIO 2010 - Cell and Molecular Biology **4 cr** **-OR-** BIO 2125 - Fundamentals of Microbiology **4 cr**
- CHE 2111 - Organic Chemistry I **4 cr**
- MAT 2036 - Biostatistics **4 cr**

- PHY 2110 - Physics I 4 cr
- PHY 2210 - Physics II 4 cr
- SCI 2100 - Science Colloquium 1 cr \*\*
- SCI 2210 - Introduction to Geographic Information Systems 3 or 4 cr
- BIO 3060 - Ecology 4 cr -OR- BIO 3065 - Plant Ecology 4 cr
- GEY 3110 - Hydrogeology 4 cr

\* Must earn a grade of C or better in order to take additional courses in the major.

\*\* SCI 2100 is *mandatory during the sophomore year* and recommended during junior and senior years; however, only one credit will count toward the major.

And complete two of these upper-level elective courses (6-8 cr):

- BIO 3013 - Biogeochemistry 4 cr -OR- CHE 3013 - Biogeochemistry 4 cr
- BIO 3030 - Ecology of Water 3 cr
- CHE 3020 - Analytical Chemistry 4 cr
- CHE 3030 - Aqueous Geochemistry 3 cr
- BIO 4250 - Ecotoxicology 3 cr
- CHE 4010 - Environmental Kinetics and Chemical Fate 3 cr

(Credits required for the major: 62-65 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Additional Information

For students considering *graduate programs in environmental science*, MAT 2532 - Calculus II should be taken along with CHE 2112 - Organic Chemistry II.

For students considering *environmental engineering or hydrology careers/graduate programs*, a minor in mathematics is recommended with MAT 2532 - Calculus II, MAT 2533 - Calculus III, MAT 3210 - Linear Algebra, and MAT 3310 - Differential Equations.

In addition to the above requirements, we strongly recommend that students initiate an internship or research project in environmental science.

We also encourage students to consider the minor in Environmental Studies to enhance their breadth of knowledge of environmental issues.

The BS in Environmental Science may not be combined with a Biology or Ecological Studies major. Up to 12 credits may be applied to a minor in Biology, Chemistry, or Geology.

## Exercise Science (BS.EXS)

*For further information about this major, contact Dr. Justin Carlstrom, the Exercise Science Coordinator:  
Justin.Carlstrom@Castleton.edu*

Exercise Science is the study of the physiological responses and adaptations to exercise. This program offers specializations in three areas: Strength and Conditioning, Clinical Specialist, and Research. Coursework is designed to aid students in the preparation for graduate school and nationally recognized certifications, including those offered by the American College of Sports Medicine and National Strength and Conditioning Association.

Students who complete a degree program in the Exercise Science will:

1. Master knowledge and concepts fundamental to the pursuit of their disciplines, including those drawn from other fields of study;
2. Locate, comprehend, assess, and apply the scholarly work of scientists;
3. Communicate scientific information both orally and in writing;
4. Demonstrate the ability to follow laboratory protocols, safety standards, and data collection procedures;
5. Connect their course content to an internship experience;
6. Administer tests and interpret results in accordance with the requirements of the American College of Sports Medicine;
7. Instruct patients, clients, and athletes as to the proper procedures for performing self-administered fitness tests and assessing their readiness for physical activity.

## Complete the following courses (56 cr):

complete all of these courses:

- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- AHS 2170 - Strength Training Principles 2 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- AHS 3120 - Kinesiology 3 cr
- AHS 3150 - Physiology of Exercise 4 cr
- AHS 3820 - Practicum in Exercise Leadership 3 cr
- AHS 4152 - Pathophysiology and Clinical Exercise Physiology 3 cr
- AHS 4160 - Clinical Exercise Testing and Prescription 4 cr
- AHS 4220 - Scientific Foundations of Strength and Conditioning I 3 cr
- AHS 4221 - Scientific Foundations of Strength and Conditioning II 3 cr
- AHS 4250 - Clinical Electrocardiography 3 cr
- AHS 4260 - Nutrient Metabolism and Athletic Performance 3 cr
- PED 4910 - Senior Thesis 3 cr

and complete one of these courses:

- AHS 4830 - Internship In Exercise Science 1-12 cr (3 cr required)
- AHS 4912 - Senior Research In Exercise Science 3 cr

## And complete 9 credits of Electives from this list:

- AHS 1070 - Basic Athletic Training 3 cr
- AHS 3813 - Pharmacology and General Medical Conditions 2 cr
- AHS 4170 - Enhancement of Athletic Performance 3 cr
- BIO 2010 - Cell and Molecular Biology 4 cr
- BIO 2125 - Fundamentals of Microbiology 4 cr
- BIO 3070 - Genetics 4 cr

- BIO 3240 - Advanced Human Physiology 3 cr
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 2112 - Organic Chemistry II 4 cr
- CHE 3011 - Biochemistry with Discussion 4 cr
- MAT 2021 - Statistics I 3 cr
- PED 2140 - Fitness Center Management 3 cr
- PED 2072 - Advanced Strength and Conditioning 1 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3130 - Health Psychology 3 cr
- PHY 1051 - General Physics I 4 cr
- PHY 1052 - General Physics II 4 cr

(Credits required for the major: 65 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Additional Information

Admittance to and retention in the Exercise Science Program is based on the following criteria throughout the student's undergraduate experience:

- Maintain a minimum cumulative GPA of 2.50
- Earn a minimum grade of "C" in required AHS prefix courses, BIO 2011, and BIO 2012

Any student failing to meet any of the above requirements will be placed on probation for a maximum period of one year.

Students receiving a grade lower than a "C" in required AHS courses, BIO 2011, and BIO 2012 will not be allowed to sequence into post-requisite course work until the prerequisite deficiency has been rectified. Students failing to rectify deficiencies within the one-year probation period will be removed from the Exercise Physiology major.

## Geology (BS.GEY)

*For further information about this major, contact Dr. Timothy Grover, the Geology Coordinator:  
Timothy.Grover@Castleton.edu*

A comprehensive program in geology designed for preparation for graduate school, a career in geology, or secondary education.

Students completing the Bachelor of Science in Geology will demonstrate:

### Knowledge and Understanding of Geological Concepts

- Comprehend and create a geologic map, construct a geologic cross-section, and construct and contour map.
- Use appropriate technological tools.
- Identify common rocks and minerals in hand sample and in thin section.
- Understand how physical properties of rocks and minerals relate to chemistry and crystal structure.



- Describe the layers of the Earth and understand the evidence used to deduce this structure.
- Characterize the major physiographic features of the Earth.
- Understand the theory of plate tectonics
- Explain rock structures at different scales, describe the rock and hydrologic cycles, and relate igneous, metamorphic, and sedimentary phenomena to plate tectonic processes.
- Understand the scope of geologic time, the chronology of major Earth events, and geologic age-dating methods.

#### Intellectual Skills

- Make systematic observations, construct hypotheses and make predictions, design an experiment, interpret data, and form conclusions based on the data.
- Locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Communicate scientific information, both orally and in writing, according to accepted practice in the field of geology.
- Use appropriate mathematical and statistical methods to evaluate and interpret geologic data.

#### Civic Learning

- Clear understanding of the issues and involvement of geology in modern society.

Complete the following mathematics courses (7 cr):

- MAT 1531 - Calculus I 4 cr
- MAT 2021 - Statistics I 3 cr

and complete the following chemistry and physics courses (12 cr):

- CHE 1051 - Chemistry I 4 cr
- CHE 1052 - Chemistry II 4 cr
- PHY 2110 - Physics I 4 cr

and complete the following Geology courses (28 cr):

- GEY 1030 - Dynamic Earth 4 cr
- GEY 2010 - Mineralogy 4 cr
- GEY 2020 - Sedimentology and Stratigraphy 4 cr
- GEY 2030 - Field Mapping 1 cr
- GEY 3010 - Igneous and Metamorphic Petrology 4 cr
- GEY 3050 - Structural Geology 4 cr
- GEY 4020 - Regional Geology 4 cr
- a Geology elective 3 cr

(Credits required for the major: 47 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Honors in Geology

Students wishing to graduate with Honors in Geology must meet the following requirements:

- a minimum GPA of 3.0 in all courses,
- a minimum GPA of 3.4 in all science and math courses,
- complete a minimum of 3 credits of independent research in geology,
- and present the results of their research in a public forum.

## Recommendation

The following recommended courses may be necessary or useful to students who wish to pursue a particular career or graduate work in Geology. Consult your advisor:

- CHE 2111 - Organic Chemistry I 4 cr
- GEY 1050 - The Earth through Time 4 cr
- GEY 3030 - Aqueous Geochemistry 3 cr  
-OR- CHE 3030 - Aqueous Geochemistry 3 cr
- GEY 3110 - Hydrogeology 4 cr
- Summer field course-program approved by the Geology Advisor.

## Health Science (BS.HLT)

*For further information about this major, contact Dr. Peter Kimmel, the Health Science Coordinator:  
Peter.Kimmel@Castleton.edu*

An interdisciplinary program designed to prepare students for entry into professional programs in health related fields, such as physical therapy, occupational therapy, and physician assistant.

Students completing the Bachelor of Science in Health Science will demonstrate:

- Mastery of factual knowledge and understanding of processes related to the structure and function of the human body, including the mechanisms and treatment of disease or injury.
- Ability to locate, comprehend, and evaluate information related to human biology, health, and medicine.
- Ability to communicate scientific information both orally and in writing.
- Adherence to laboratory protocols and ability to collect data using the scientific method.
- Understanding of the nature of their chosen profession, including ethics and standards of professional conduct, through an internship experience.

Complete the following courses as part of the Gen Ed core requirement (9 cr):

- MAT 2021 - Statistics I 3 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- SOC 1010 - Introduction to Sociology 3 cr -OR- SOC 1030 - Social Problems 3 cr

And complete the following science courses (25-27 cr):

- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- PHY 1051 - General Physics I 4 cr
- PHY 1052 - General Physics II 4 cr
- AHS 2810 - Internship in Health Science 1-3 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr

And complete at least 24 credits from the following courses:

*At least 3 credits must be selected from each of the four areas.*

### A. Allied Health and Physical Education

- AHS 2151 - Evaluation and Management of Injuries to the Lower Extremity 3 cr
- AHS 2152 - Evaluation and Management of Injuries to the Upper Extremity 3 cr
- AHS 2160 - Anatomical Aspects of Sports Medicine 3 cr
- AHS 2340 - Introduction to Therapeutic Exercise 2 cr
- AHS 3090 - Introduction to Alternative/Complementary Medicine 3 cr
- AHS 3120 - Kinesiology 3 cr
- AHS 3813 - Pharmacology and General Medical Conditions 2 cr
- AHS 4160 - Clinical Exercise Testing and Prescription 4 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr

### B. Psychology

- PSY 2170 - Drugs and Behavior 3 cr
- PSY 3060 - Child Psychopathology 3 cr
- PSY 3070 - Abnormal Psychology 3 cr
- PSY 3130 - Health Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr
- PSY 3410 - Biopsychology 3 cr
- PSY 4050 - Nature and Nurture 3 cr

### C. Science

- AHS 3150 - Physiology of Exercise 4 cr
- AHS 4152 - Pathophysiology and Clinical Exercise Physiology 3 cr
- BIO 2010 - Cell and Molecular Biology 4 cr
- BIO 2125 - Fundamentals of Microbiology 4 cr
- BIO 3070 - Genetics 4 cr
- BIO 3210 - Developmental Biology 4 cr
- BIO 3240 - Advanced Human Physiology 3 cr
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 2112 - Organic Chemistry II 4 cr
- CHE 3011 - Biochemistry with Discussion 4 cr

## D. Contemporary Health Issues

- PED 2370 - Community Health 3 cr
- PED 3060 - Women's Health Issues 3 cr
- PHI 3020 - Medical Ethics 3 cr
- SOC 3070 - Medical Sociology and Mental Illness 3 cr
- SOC 2230 - Death And Dying 3 cr
- SWK 2130 - Introduction to the Study of Aging 3 cr

(Credits required for the major: 58-60 cr)

## Pharmacy Degree (CU/ACPHS 3+4)

This major participates in the 3+4 program with Albany School of Pharmacy & Health Sciences, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS.

For details, see the Pharmacy Degree page.

## Cooperative Degrees

### **Occupational Therapy (Castleton+Sage Graduate School 4+2) (MS-OPT)**

*Contact: Professor Peter Kimmel, Natural Sciences Department*

Castleton offers this degree program in conjunction with Sage Graduate School, Troy, NY. Students will complete a bachelor's degree from Castleton, including the courses specified below, and will be granted preferred acceptance (based on space available) to the two-year masters program in Occupational Therapy (MS-OT) at Sage.

#### Specific program requirements:

#### 1. Complete a baccalaureate degree program at Castleton

Students may choose from any of Castleton's baccalaureate programs, but we recommend that pre-OT students consider majoring in Psychology, Biology, Exercise Science, Health Science, or Athletic Training.

#### 2. Complete these Pre-Occupational Therapy courses (24 cr)

*All courses must be completed with grades of C or better*

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- BIO 2125 - Fundamentals of Microbiology 4 cr
- MAT 2021 - Statistics I 3 cr
- PHY 2110 - Physics I 4 cr

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3070 - Abnormal Psychology 3 cr
- SOC 1010 - Introduction to Sociology 3 cr
- **OR** ANT 1010 - Introduction to Cultural Anthropology 3 cr

3. Attain an overall GPA of 3.25 or better

4. Obtain a positive recommendation from Castleton's pre-health professional faculty.

### Admission to Sage Graduate School:

Castleton students who complete the above requirements will be eligible for:

- Preferred acceptance (based on space available) into Sage's MS-OT program,
- Waiver of Sage Graduate School application fee,
- Access to Sage advisors to coordinate undergraduate electives and coursework to reduce or eliminate prerequisites in the graduate program, and
- Opportunity to apply early for graduate assistantships.

To qualify for preferred acceptance to the MS-OT program, students agree to the following:

*By **June 1** of the year preceding graduation from Castleton:*

1. Submit a completed Graduation Application Packet with supplemental documents (fee waived), including:
  - a. Current resume
  - b. Clinical observation form
  - c. Program prerequisite record
  - d. OT program academic standards statement
  - e. Career goals statement / personal essay

Forms are available at: [www.sage.edu/academics/health\\_sciences/programs/occupational\\_therapy/](http://www.sage.edu/academics/health_sciences/programs/occupational_therapy/)

*Mail to: The Sage Graduate Schools  
Office of Admissions  
65 First Street  
Troy, NY 12180*

2. E-mail the OT Department ([sageot@sage.edu](mailto:sageot@sage.edu)) and Sage Graduate School Admissions ([sgsadm@sage.edu](mailto:sgsadm@sage.edu)) indicating that their application has been submitted according to Castleton's articulation agreement.
3. Submit official transcripts from all higher education institutions attended.
4. Submit two (2) letters of reference from Castleton Psychology or Sociology faculty (or equivalent faculty representative).

Within **30 days** of acceptance to Sage:

5. Make enrollment deposit of \$50 (non-refundable, but will be applied toward graduate tuition).

*Upon graduation from Castleton:*

6. Submit final transcripts documenting completion of undergraduate degree and OT program prerequisite courses to the OT Department at the address above.

7. Submit Clinical Observation Document showing at least 20 hours of clinical observation with an occupational therapist.

*-The above requirements and procedures are reviewed every two years and subject to change without notice-*

## **Physical Therapy (Castleton+Sage Graduate School 4+3) (DPT)**

*Contact: Professor Peter Kimmel, Natural Sciences Department*

Castleton offers this degree program in conjunction with Sage Graduate School, Troy, NY. Students will complete a bachelor's degree from Castleton, including the courses specified below, and will be granted preferred acceptance (based on space available) to the three-year clinical Doctor of Physical Therapy program (DPT) at Sage.

### **Specific program requirements:**

#### **1. Complete a baccalaureate degree program at Castleton**

Students may choose from any of Castleton's baccalaureate programs, but we recommend that pre-PT students consider majoring in Biology, Exercise Science, Health Science, or Athletic Training.

#### **2. Prerequisite Courses**

Complete the following prerequisite courses with grades of C or better (37 credits total)

- BIO 2011 - Human Anatomy and Physiology I **4 cr**
- BIO 2012 - Human Anatomy and Physiology II **4 cr**
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- CHE 1041 - General Chemistry I **4 cr**
- CHE 1042 - General Chemistry II **4 cr**
- MAT 2021 - Statistics I **3 cr**
- PHY 2110 - Physics I **4 cr**
- PHY 2210 - Physics II **4 cr**
- PSY 1012 - Introduction to Psychological Science **3 cr**
- PSY 1050 - Human Growth and Development **3 cr**

#### **3. Attain a science GPA of 3.25 or better**

(in Human Anatomy and Physiology, Microbiology, Chemistry, and Physics.)

4. Attain an overall GPA of 3.25 or better

5. Obtain a positive recommendation from Castleton's pre-health professional faculty

### Admission to Sage Graduate School:

Castleton students who complete the above requirements will be eligible for:

- Preferred acceptance (based on space available) into Sage's DPT program,
- Waiver of Sage Graduate School application fee,
- Early acceptance (for students who submit applications through the PTCAS early decision process in the summer before their senior year),
- Advisement to coordinate undergraduate electives and coursework to address DPT program prerequisites, and
- Opportunity to apply early for graduate assistantships.

To qualify for preferred acceptance to the DPT program, students agree to the following:

*By **August 15\*** of the year preceding graduation from Castleton:*

1. Submit a completed PTCAS application ([www.ptcas.org](http://www.ptcas.org)) following Early Decision Procedures, including:

- a. Official transcripts
- b. Two (2) letters of recommendation, one of which must be academic
- c. Clinical Observation Hours Documentation (minimum 40 hours, preferably in at least 2 settings)
- d. Current resume
- e. Essay

*\*This date is determined by PTCAS and is subject to change each year. Please visit [www.ptcas.org](http://www.ptcas.org) for the most current deadline date.*

2. Submit the supplemental document form (DPT Academic and Technical Program Standards Statement) to the PT Department. Forms can be found at [www.sage.edu/academics/health\\_sciences/programs/dpt/admission/](http://www.sage.edu/academics/health_sciences/programs/dpt/admission/)

*Mail to: Carrie Knepp, PT Department  
The Sage Colleges  
65 First Street  
Troy, NY 12180*

3. E-mail the PT Department ([sagept@sage.edu](mailto:sagept@sage.edu)) indicating that their application has been submitted to PTCAS according to Castleton's articulation agreement.

*Within **30 days** of acceptance to Sage:*

4. Submit official transcripts from all higher education institutions attended to the PT Department at the address above.

5. Make enrollment deposit of \$200 (non-refundable, but will be applied toward graduate tuition).

*Upon **graduation** from Castleton:*

6. Submit final transcripts documenting completion of undergraduate degree and PT program prerequisite courses to the PT Department at the address above.

While interviews are no longer required, Sage encourages students to visit campus and meet with a representative of the PT program prior to submitting an application to PTCAS. Please contact Carrie Knepp at [sagept@sage.edu](mailto:sagept@sage.edu) to schedule a visit or ask questions about Sage's PT program.

*-The above requirements and procedures are reviewed every two years and subject to change without notice-*

## **Minors**

### **Biology Minor (BIO)**

This minor, offered by the Natural Sciences Department, can be earned by completing at least 24 credits in Biology of which no more than eight credits may be below the 2000-level.

### **Chemistry Minor (CHE)**

This minor, offered by the Natural Sciences Department, can be earned by completing at least 23 credits in Chemistry.

Complete the following courses (16 cr):

- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 3020 - Analytical Chemistry 4 cr

and complete two of the following courses (7-8 cr):

- CHE 2112 - Organic Chemistry II 4 cr
- CHE 3011 - Biochemistry with Discussion 4 cr
- CHE 3030 - Aqueous Geochemistry 3 cr
- CHE 3031 - Physical Chemistry I 4 cr
- CHE 3032 - Physical Chemistry II 4 cr

(Total credits required for the minor: 23-24 cr)

### **Geology Minor (GEY)**

The Geology minor is offered by the Natural Sciences Department. The minor can be earned by completing at least 20 credits in Geology of which no more than eight credits may be below the 2000 level.

### **Natural Sciences Minor (NAS)**



This minor is offered by the Natural Sciences Department. The minor can be earned by completing at least 20 credits in any combination of Biology, Chemistry, Geology, and Physics courses of which no more than eight credits may be below the 2000 level in a single discipline.

(This minor is not available to Natural Sciences majors, i.e. students majoring in Biology, Chemistry, Ecological Studies, Environmental Science, Exercise Science, Geology, or Health Science.)

## Note:

Most laboratory science courses require payments of materials and field trip charges in addition to any textbooks or lab manuals. Also, in laboratory science courses, the ratio of lab hours to lecture hours varies.

# Nursing Department

*Director of Nursing: Jeanne-Marie Havener.*

*Department Chair: Assistant Professor Bonnie Hanley.*

The mission of the Nursing Department is to provide evidence-based innovative undergraduate nursing education to diverse learners through a dual degree program; prepare nurses as lifelong learners who provide safe, quality patient-centered care; continuously work to improve care; collaborate as a member of the interdisciplinary team; and lead within the professions.

The Nursing Department offers two programs leading to a Bachelor of Science (BS) in Nursing degree. The following options are available for enrollment:

### **Dual Degree Bachelor of Science with a major in Nursing (BS.NUR)**

This four-year program is designed for students who wish to pursue traditional baccalaureate education. Students who choose this pathway will take baccalaureate nursing courses and liberal arts electives in their third year. In order to proceed to the fourth and final year of the program, students will be required to graduate at the end of the third year with an Associate in Science in Nursing, successfully complete the National Council Examination for Registered Nursing (NCLEX-RN), and achieve an unencumbered RN licensure in the State of Vermont.

### **Registered Nurse (RN) to Bachelor of Science (BS) Completion (BS.NUR)**

RNs who already hold either a Diploma or an Associate degree in Nursing may enroll in the RN to BS Completion Program. This program requires that students have an active unencumbered RN license in the State of Vermont. Full-time enrollment will result in a Bachelor of Science with a major in Nursing degree in two years. Part-time enrollment is also an option. Students will be required to complete the RN to BS program in five years.

**Admission Criteria:** In addition to the university's general admission requirements, admission to the above listed programs is selective and based on the following criteria:

1. Combined Critical Reading and Math SAT scores of 1000 or above.
2. Graduation from high school in the upper quarter of class.
3. Evaluation of prior post-secondary course work.
4. Interview with a faculty member from the Nursing Department student affairs committee.
5. All candidates applying for admission to the RN to BS Completion Program should submit a resume and one letter of recommendation written by his or her supervisor.

Students matriculating into any nursing program are required to undergo a criminal background check and drug screen after acceptance into the program and prior to enrollment. Final acceptance to the program is conditioned upon a satisfactory check. Additional checks and/or screenings may also be required by a specific clinical affiliation site. The cost of any background check will be paid by the student.

### **Challenge Examination for Advanced Placement**

Challenge examinations for admission to the AS in nursing are available to Licensed Practical Nurses who possess an unencumbered license in the State of Vermont. Successful completion of the challenge examination process for Foundations of Nursing I (NUR 1211) prior to the start of the semester of enrollment will exempt students from the course. Select candidates may challenge Foundations of Nursing II (NUR 1212). Successful challenge of both NUR 1211 and NUR 1212 could enable the student to enter the nursing program in NUR 2111, NUR 2112, or NUR 2113 provided other prerequisites are met. Details regarding the complete challenge process are available from the Nursing Department upon request. The fee for the written exam is \$65 and the skills exam is \$125.

### **Internal Transfer**

Students enrolled in other academic programs within the university are eligible for consideration for internal transfer into nursing. Details regarding the application process are available from the Nursing Department upon request. The selection process takes place at the end of the fall semester. The most qualified applicants will be accepted on a space available basis. The following criteria must be met in order to be considered for admission into a nursing program:

1. A minimum GPA of 2.8
2. A minimum 9-credit load in the prior semester, or semester of the application
3. Submission of a complete application prior to the designated deadline
4. Approval by the Nursing Department student affairs committee.

### **Fees**

Some nursing courses require payment of a laboratory fee. For a summary of these fees please consult individual course descriptions. All nursing students are required to buy an identification badge. AS degree nursing students are also expected to have a working watch with a second hand and are required to purchase uniforms, a lab coat, nursing shoes, stethoscope, blood pressure cuff, and bandage scissors.

### **Clinical and lab requirements for all programs of nursing**

Several nursing courses require a clinical and lab component taught by nursing faculty either on campus in the Virtual Hospital or in hospitals and other health agencies.

RN-BS clinical experiences include partnerships between faculty and practice-based preceptors to facilitate learning with nursing faculty as the evaluator of student learning. All RN-BS students are required to hold active unencumbered RN licensure in the state of Vermont and in any other state where their clinical experiences occur.

### **Unsatisfactory Performance**

The Nursing Department reserves the right to request that the academic dean require withdrawal from the nursing program of any student whose health, academic record, performance and/or behavior in nursing is judged unsatisfactory. Unsatisfactory performance in the clinical environment negates academic grade performance.

For more information please go to our website at [www.castleton.edu/nursing2/index.htm](http://www.castleton.edu/nursing2/index.htm)

## **Bachelor's Degrees**

### **Nursing: Bachelors (BS.NUR)**

This baccalaureate program, designed for students who wish to pursue pre-licensure baccalaureate education, is approved by the Vermont State Board of Nursing and accredited by the Commission on Collegiate Nursing Education. Students are admitted directly into the major and enroll in their first nursing course in the fall of the second year. Upon successful completion of all degree requirements, graduates are eligible to complete the National Council Examination

for Registered Nursing (NCLEX-RN) and to seek advanced study in the discipline. Full-time enrollment will result in a Bachelor of Science degree with a major in Nursing in four years.

**Admission Criteria:** *In addition to the university's general admission requirements, admission to the BS.NUR program is selective and based on the following criteria:*

1. Minimum SAT scores of 500 in each of the critical reading and math sections. (ACT=21).
2. Graduation from high school with a minimum 3.0 GPA.
3. Evaluation of prior post-secondary course work.
4. Nursing faculty approval.

Students matriculating into any nursing program are required to undergo a criminal background check and drug screen after acceptance into the program and prior to enrollment. Final acceptance to the program is conditioned upon a satisfactory check. Additional checks and/or screenings may also be required by a specific clinical affiliation site. The cost of any background check will be paid by the student.

**Students who complete the Bachelor of Science in Nursing program will:**

- Synthesize knowledge from liberal education, contemporary nursing science, health-related science, and the humanities in the practice of professional nursing.
- Apply theories and principles of leadership and management to provide safe, quality, evidence-based care for patients across the life span and continuum of care as a member of an interdisciplinary team.
- Apply the best current evidence, coupled with clinical expertise and consideration of patients' preferences, experiences, and values to make practice decisions.
- Use current patient care technologies and information systems to communicate, manage knowledge, mitigate error, and support decision-making in the delivery of quality care to individuals, families, groups, and populations.
- Integrate knowledge of healthcare policy, finance, regulatory agencies, and healthcare trends with professional role behavior.
- Interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision-making to enhance patient satisfaction and health outcomes.
- Advance the use of the nursing process to promote health, prevent disease, and enhance the holistic health and well-being of diverse individuals, families, groups, and populations.
- Provide patient-centered care based upon ethical principles, behaviors, and values that include altruism, autonomy, human dignity, integrity, and social justice in the professional practice of nursing across the continuum of health care.
- Promote the resolution of complex health problems by serving as advocates, leaders, managers, and members of the nursing profession when working with individuals, families, groups, populations, and health team members across the continuum of healthcare.

## Required Courses:

**Note: All nursing and science courses must be passed with a "B-" or better**

- BIO 1030 - Introduction to Nutrition **3 cr** (See CCV course listings)
- MAT 1350 - Statistics and Health **3 cr**
- PSY 1012 - Introduction to Psychological Science **3 cr**
- PSY 1050 - Human Growth and Development **3 cr**
- SOC 1010 - Introduction to Sociology **3 cr**
- BIO 2011 - Human Anatomy and Physiology I **4 cr**

- BIO 2012 - Human Anatomy and Physiology II 4 cr
- BIO 2125 - Fundamentals of Microbiology 4 cr
- NUR 1030 - Introduction to Professional Nursing 3 cr
- NUR 2012 - Health Assessment 3 cr \*
- NUR 2035 - Fundamentals of Nursing Practice 7 cr \*
- NUR 2050 - Pharmacology for Nurses 3 cr
- NUR 2510 - Evidence-Based Practice in Nursing 3 cr
- NUR 3040 - Pathophysiology 3 cr
- NUR 3060 - Nursing Care of Adults 8 cr \*
- NUR 3065 - Nursing Informatics 3 cr
- NUR 3070 - Care of Clients with Mental Health Problems 5 cr \*
- NUR 3075 - Community Health Nursing 6 cr \*
- PHI 3020 - Medical Ethics 3 cr
- NUR 4025 - Care of Childbearing and Childrearing Families 8 cr \*
- NUR 4030 - Management and Leadership in Nursing 3 cr \*
- NUR 4610 - Healthcare Policy, Finance and Regulation 3 cr
- NUR 4615 - Transition to Professional Nursing Practice 3 cr
- NUR 4810 - Patient Care Management Capstone 8 cr \*

\*Requires application of new knowledge in the practice setting

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### Total credits:

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| Total General Education requirements to graduate with a Bachelor's Degree:   | 42 cr         |
| Less: General Education requirements already satisfied by the BS.NUR program | <u>-19 cr</u> |
| <b>Remaining General Education requirements:</b>                             | <b>23 cr</b>  |
| Plus: subtotal of credits required by the BS in Nursing degree               | <u>+99 cr</u> |
| <b>Total credits required to obtain a BS in Nursing degree:</b>              | <b>122 cr</b> |

## Program Notes

### Internal Transfer

Students enrolled in other academic programs within the university are eligible for consideration for internal transfer into nursing. Details regarding the application process are available from the Nursing Department upon request. The selection process takes place at the end of the fall semester. The most qualified applicants will be accepted on a space available basis. The following criteria must be met in order to be considered for admission into a nursing program:

1. A minimum GPA of 2.8
2. A minimum 9-credit load in the prior semester, or semester of the application
3. Submission of a complete application prior to the designated deadline

4. Approval by the Nursing Department student affairs committee

### **Fees**

Some nursing courses require payment of a laboratory fee. For a summary of these fees please consult individual course descriptions. All nursing students are required to buy an identification badge. Generic nursing students are also expected to have a working watch with a second hand and to purchase uniforms, a lab coat, nursing shoes, stethoscope, and bandage scissors.

### **Clinical and Lab Requirements**

Several nursing courses require clinical and lab components taught by nursing faculty either on campus in the Virtual Hospital or in hospitals and other health agencies.

The BS clinical capstone course includes the use of practice-based preceptors who partner with faculty to facilitate learning. Faculty have ultimate responsibility for the evaluation of student learning.

All RN-BS students must remain licensed while enrolled in the program.

All RN-BS students are expected to cover the cost and provide their own transportation to assigned clinical agencies.

### **Unsatisfactory Health, Performance, or Behavior**

The Nursing Department reserves the right to request that the Chief Academic Officer require withdrawal from the nursing program of any student whose health, academic record, performance, and/or behavior in nursing is judged unsatisfactory. Unsatisfactory performance in the clinical environment negates academic grade performance.

## **Licensure**

According to the Vermont State Board of Nursing: (State of Vermont Board of Nursing Title 26 V.S.A.): "The Board may deny an application for registration, licensure or relicensure; revoke or suspend any license to practice nursing issued by it; discipline or in other ways condition the practice of registrant or licensee upon due notice and opportunity for hearing in compliance with the provisions of chapter 25 of Title 3, if the person:

1. Has made or caused to be made a false, fraudulent or forged statement or representation in procuring or attempting to procure registration or renew a license to practice nursing;
2. Whether or not committed in this state, has been convicted of a crime related to the practice of nursing or a felony which evinces an unfitness to practice nursing;
3. Is unable to practice nursing competently by reason of any cause;
4. Has willfully or repeatedly violated any of the provisions of this chapter;
5. Is habitually intemperate or is addicted to the use of habit-forming drugs.
6. Has a mental, emotional or physical disability, the nature of which interferes with ability to practice nursing competently; or
7. Engages in conduct of a character likely to deceive, defraud or harm the public."

## **Accreditation**

The baccalaureate degree in nursing at Castleton University is accredited by the Commission on Collegiate Nursing Education, 1 Dupont Circle, NW, Suite 530, Washington, DC 20036, (202) 887-6791. The program is also approved by the Vermont Board of Nursing.

## **Nursing: RN to BS (BS.NUR.RN)**

Each student for the RN to BS Completion Program will be considered individually as a transfer student and must meet the Castleton University BS Degree Requirements before graduation, including the General Education requirements and the total minimum degree requirements of 122 credits. For this reason, the time and number of credits for program completion may vary. All candidates licensed as registered nurses will be awarded a minimum of 34 credits toward a BS degree.

Admissions requirements for this program include: BIO 2011 - Human Anatomy and Physiology I, BIO 2012 - Human Anatomy and Physiology II, and BIO 2125 - Fundamentals of Microbiology (or their equivalents) in addition to an unencumbered RN license in the United States. In recognition of the diversity of backgrounds students in this program possess, transferable grades in these courses will serve as prerequisites, where appropriate, for subsequent nursing courses.

## Required Courses:

**Note: All nursing and science courses must be passed with a "B-" or better**

- MAT 1350 - Statistics and Health 3 cr
- NUR 2012 - Health Assessment 3 cr \*
- NUR 2050 - Pharmacology for Nurses 3 cr
- NUR 2510 - Evidence-Based Practice in Nursing 3 cr
- NUR 3010 - Health Promotion and Protection 3 cr
- NUR 3020 - RN Transition to Professional Nursing Practice 2 cr
- NUR 3040 - Pathophysiology 3 cr
- NUR 3065 - Nursing Informatics 3 cr
- NUR 3075 - Community Health Nursing 6 cr \*
- NUR 4010 - Family Health Nursing 3 cr \*
- NUR 4030 - Management and Leadership in Nursing 3 cr \*
- NUR 4610 - Healthcare Policy, Finance and Regulation 3 cr
- PHI 3020 - Medical Ethics 3 cr
- PSY 1050 - Human Growth and Development 3 cr

\*Requires clinical study outside the classroom

and complete one of the following courses:

- BIO 1030 - Introduction to Nutrition 3 cr
- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SOC 2230 - Death And Dying 3 cr

Subtotal of credits required: 47 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Program Notes

**Fees**

Some nursing courses require payment of a laboratory fee that is included in the individual course descriptions.

### **Practice Setting Requirements**

All nursing students are expected to cover the cost and provide their own transportation to assigned clinical agencies.

All RN-BS students must have an unencumbered RN license in the State of Vermont and in any other state where clinical experiences occur.

### **Unsatisfactory Health, Performance, or Behavior**

The Nursing Department reserves the right to request that the Academic Dean require withdrawal from the nursing program of any student whose health, performance, or behavior is judged unsatisfactory.

## **Accreditation**

The baccalaureate degree in nursing at Castleton University is accredited by the Commission on Collegiate Nursing Education, 1 Dupont Circle, NW, Suite 530, Washington, DC 20036, (202) 887-6791. The program is also approved by the Vermont Board of Nursing.

## **Philosophy**

*Coordinator: Associate Professor Brendan Lalor*

The Philosophy Program offers a Bachelor's degree (BA.PHI) and a Minor Program in Philosophy.

The purpose of the Philosophy Program is to provide a foundation in philosophy and its highly effective skills of reasoning. Philosophy is the study of problems about the nature of reality, knowledge, and value. The questions of philosophy and the attempts to solve them, as presented in the writings of many of the world's most valued thinkers, constitute the core of the human drive to understand ourselves and our place in the world. Students can study major philosophical figures: Plato, Aristotle, St. Thomas Aquinas, Descartes, Kant, Mill, Nietzsche, Sartre, Wittgenstein, Quine, and more. The curriculum also introduces them to major philosophical and religious traditions: metaphysical dualism, materialism, nihilism, theism, existentialism, Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, and Confucianism.

At the same time, Philosophy trains its students to think more clearly and critically. That concentrated training in critical thinking is one of the best preparations for entry into any professional career. Many philosophy majors go into education in order to teach and do continued research in philosophy; but many more use philosophy as preparation for careers in the law, medicine, business, communication, and the arts. Those are increasingly common careers for philosophy majors.

Educational Objectives:

1. The student will read philosophical works with understanding and critical reflection.
2. The student composes an exposition of a philosophical problem or position describing how it is addressed by two to three philosophers from different historical periods.
3. The student engages in philosophic discourse by asking questions and offering responses that indicate understanding of a position's implications and presuppositions.

## **Bachelor's Degrees**

### **Philosophy (BA.PHI)**

The purpose of the Philosophy Program is to provide a foundation in philosophy and its highly effective skills of reasoning. Philosophy is the study of problems about the nature of reality, knowledge, and value. The questions of philosophy and the attempts to solve them, as presented in the writings of many of the world's most valued thinkers, constitute the core of the human drive to understand ourselves and our place in the world. Students can study major philosophical figures: Plato, Aristotle, St. Thomas Aquinas, Descartes, Kant, Mill, Nietzsche, Sartre, Wittgenstein, Quine, and more. The curriculum also introduces them to major philosophical and religious traditions: metaphysical dualism, materialism, nihilism, theism, existentialism, Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, and Confucianism.

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Educational Objectives:

1. The student will read philosophical works with understanding and critical reflection.
2. The student composes an exposition of a philosophical problem or position describing how it is addressed by two to three philosophers from different historical periods.
3. The student engages in philosophic discourse by asking questions and offering responses that indicate understanding of a position's implications and presuppositions.

**Complete these required courses (9 cr):**

- PHI 3011 - History of Philosophy I 3 cr
- PHI 3012 - History of Philosophy II 3 cr
- PHI 4510 - Seminar in Philosophy 3 cr  
OR PHI 4620 - Senior Thesis in Philosophy 3 cr

**and complete 9 additional Philosophy courses (27 cr)**

**(Credits required for the major: 36 cr)**

**And complete the university's Gen Ed requirements**

Review the Gen Ed requirements.

## PHILOSOPHY PRE-LAW PATHWAY

The Pre-Law Program in Philosophy allows highly focused students to earn a Bachelor's degree in Philosophy in just three years at CU and then a Juris Doctor (JD) degree in just two years at Vermont Law School

*To be prepared to succeed in law school, Philosophy majors should follow this course of study:*

Complete these core courses (15 cr):

PHI 1020 - Critical Thinking



PHI 1030 - Introduction to Logic

PHI 3011 - History of Philosophy I

PHI 3012 - History of Philosophy II

PHI 4510 - Seminar in Philosophy -OR- PHI 4620 - Senior Thesis in Philosophy

And complete any three of these electives (9 cr):

PHI 1040 - Introduction to Ethics

PHI 2120 - Social and Political Philosophy

PHI 2740 - Selected Topics in Philosophy

PHI 3020 - Medical Ethics

PHI 3160 - Environmental Ethics

(or-with the approval of your PHI advisor-any other applied ethics/philosophy course)

And complete four additional Philosophy courses (12 cr)

*To participate in the 3+2 program, students must consult in their first year with the Philosophy Coordinator, Professor Brendan Lalor.*

*For more details about the Pre-Law program, see the Law Degree page.*

## **Minors**

### **Philosophy Minor (PHI)**

The Minor in Philosophy requires 18 credits in Philosophy courses, which may include POS 3221 - Political Philosophy I and POS 3222 - Political Philosophy II.

## **Psychological Sciences Department**

*Department Chair: Professor Terry Bergen*

Psychology is offered as a major program leading to the Bachelor of Arts degree. Concentrations in Forensic Psychology, Developmental Psychology, Health Psychology, and Agency are offered along with an Honors Program for students interested in pursuing advanced research under the close supervision of a faculty member. All required psychology courses must be completed with a grade of 2.0 or better.

Graduates of the Bachelor of Arts program in Psychology will be able to:

1. Read, understand, and critique the classic and contemporary research literature.
2. Design, conduct, analyze, interpret, and successfully present scientific research.
3. Speak and write effectively in the discourse of the discipline.

4. Evaluate their own unique interests, abilities, career, and life goals.

Graduates of the Bachelor of Arts program in Psychology will be prepared to pursue advanced graduate training, careers in human services, and business management.

Each concentration is designed to focus a student's academic experience in an area central to their intended field of employment:

- Students concentrating in Forensics usually go to law school, graduate school in forensic psychology, to work in the courts, corrections, or law enforcement.
- Students concentrating in Developmental Psychology usually go to graduate school in Education of School Psychology, or they work in education or special education settings.
- Students concentrating in Health Psychology usually go to graduate school in clinical or counseling psychology, or they work in rehab or halfway houses.
- Students concentrating in Agency are broadly employable inside and outside the field of psychology because they are trained leaders who can think, speak, write, and cooperate.

For more information please visit our website at [www.castleton.edu/psych/Index.htm](http://www.castleton.edu/psych/Index.htm)

## Bachelor's Degrees

### Psychology (BA.PSY)

Graduates of the Bachelor of Arts program in Psychology will be able to:

1. Read, understand, and critique the classic and contemporary research literature.
2. Design, conduct, analyze, interpret, and successfully present scientific research.
3. Speak and write effectively in the discourse of the discipline.
4. Evaluate their own unique interests, abilities, career, and life goals.
5. Pursue advanced graduate training and/or careers in human services.

*All required psychology courses must be completed with a grade of 2.0 or better.*

### Complete the following courses (26 cr):

- PSY 1012 - Introduction to Psychological Science **3 cr**
- PSY 1050 - Human Growth and Development **3 cr**
- PSY 3010 - Theories of Personality **3 cr**
- PSY 3040 - Cognitive Psychology **3 cr**
- PSY 3151 - Psychological Research I **4 cr**
- PSY 3152 - Psychological Research II **4 cr**
- PSY 3410 - Biopsychology **3 cr**
- and complete one 4000-level PSY course or seminar **3 cr**

### And complete:

a minimum of two Psychology electives (6 cr)

OR

one of these Concentrations in Psychology:

- Psychology: Developmental (BA.PSY.DEV)

- Psychology: Forensic (BA.PSY.FOR)
- Psychology: Health (BA.PSY.HLT)

Total credits required for the major (without a concentration): 32 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

## **Psychology: Agency (BA.PSY.AGY)**

### **BA in Psychology with a Concentration in Agency**

This concentration is designed for students who are interested in developing their psychology knowledge and skills by getting involved in the local community as professional social scientists. This concentration produces graduates who are generally skilled in conscientiousness, communication, leadership, and teamwork—skills highly valued by most employers, inside and outside the field of psychology. Students interested in acquiring the skills and experience that can only come from hands-on practice are encouraged to concentrate in this area. Experiences provided in this concentration are powerful evidence of a student's preparation for graduate study or employment. In addition, this concentration provides an excellent foundation for the Certificate in Civic Engagement.

**Students intending to concentrate in Agency must apply in writing to the Psychological Sciences Department Chairperson for acceptance.**

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

Complete the following courses required of all Psychology majors (23 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

and complete these courses for the Concentration in Agency (18 cr):

- PSY 2210 - Applied Behavior Analysis I 3 cr
- PSY 2212 - Applied Behavior Analysis II 3 cr

- PSY 3820 - Psychology Proctorship 3 cr
- PSY 4421 - Psychology Practicum I 3 cr
- PSY 4422 - Psychology Practicum II 3 cr
- One 3-credit Civic Engagement course from outside the Psychological Sciences Department 3 cr

(Credits required for the major: 41 cr)

The following courses are recommended for this concentration:

- PSY 2040 - Social Psychology 3 cr
- PSY 4810 - Internship in Psychology 1-12 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

Agency concentration students are encouraged to earn the Certificate of Civic Engagement

Read about the Certificate of Civic Engagement.

## **Psychology: Developmental (BA.PSY.DEV)**

### **BA in Psychology with a Concentration in Developmental Psychology**

This concentration is designed for students who have a particular interest in child and adolescent psychology. Students who intend to pursue graduate training in Developmental Psychology, Counseling Psychology, or School Psychology are encouraged to take this concentration. Students seeking licensure in Elementary Education or Special Education may also choose this concentration if they have obtained a passing score on the PRAXIS II licensure exam. It is recommended that the student take this exam at the end of their first year.

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

Complete the following courses required of all Psychology majors (23 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

and complete these courses for the Concentration in Developmental Psychology (15 cr):

- Complete at least one of these courses:
- PSY 2110 - Educational Psychology 3 cr
  - PSY 2210 - Applied Behavior Analysis I 3 cr
- and complete both of these courses:
- PSY 3150 - Cognitive Development 3 cr
  - PSY 3240 - Social Development 3 cr
- and complete at least one of these courses:
- PSY 3060 - Child Psychopathology 3 cr
  - PSY 3220 - Juvenile Delinquency 3 cr
- and complete at least one of these courses:
- PSY 4020 - Psychological Testing 3 cr
  - PSY 4030 - Language and Thought 3 cr
  - PSY 4050 - Nature and Nurture 3 cr

(Credits required for the major: 38 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

- Note: These Gen Ed courses are strongly recommended:
- BIO 2011 - Human Anatomy and Physiology I 4 cr
  - BIO 2012 - Human Anatomy and Physiology II 4 cr
  - MAT 2021 - Statistics I 3 cr
  - MAT 2022 - Statistics II 3 cr

## **Psychology: Forensic (BA.PSY.FOR)**

### **BA in Psychology with a Concentration in Forensic Psychology**

This concentration focuses attention on applications of psychological research and theory to the judicial process including: courts, law enforcement, corrections, probation and parole, and the general practice of law.

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

Complete the following courses, required of all PSY majors (23 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

and complete these courses for the Concentration in Forensic Psychology (18 cr):

- PSY 2040 - Social Psychology 3 cr
- PSY 2150 - Police Psychology 3 cr
- PSY 3160 - Criminal Behavior 3 cr
- PSY 3220 - Juvenile Delinquency 3 cr
- PSY 4020 - Psychological Testing 3 cr
- PSY 4060 - Psychology and Law 3 cr
- In addition, CRJ 1010 - Introduction to Criminal Justice is strongly recommended

(Credits required for the major: 41 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

## **Psychology: Health (BA.PSY.HLT)**

### **BA in Psychology with a Concentration in Health Psychology**

This concentration is designed for students who have a particular interest in the connections between psychology and health issues. Students who aspire to careers in behavioral medicine, public health, health promotion, epidemiology, clinical health psychology, counseling, allied health fields, or other human service areas are encouraged to follow the guidelines with respect to the required and recommended courses.

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

Complete the following courses required of all Psychology majors (23 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

and complete these courses for the Concentration in Health Psychology (15 cr):

Complete these four courses:

- PSY 2170 - Drugs and Behavior 3 cr
- PSY 2280 - Positive Psychology 3 cr
- PSY 3070 - Abnormal Psychology 3 cr
- PSY 3130 - Health Psychology 3 cr

and complete at least one of these courses:

- PSY 4020 - Psychological Testing 3 cr
- PSY 4320 - Advanced Research 3 cr
- a 4000-level seminar with related content approved by the Chair (e.g. a special topic such as Eating Disorders, Addictions, or Chronic Illness and Disabilities)

(Credits required for the major: 38 cr)

The following courses are recommended for this Concentration:

- AHS 3150 - Physiology of Exercise 4 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- PHI 3020 - Medical Ethics 3 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

**Psychology: Honors (BA.PSY.HON)**

# The Honors Program

The Honors Program is designed to increase the depth of the superior student's work in the major through closer individual contact with faculty members, a more rigorous academic curriculum, and the performance of individual original research.

Eligibility for department honors work in Psychology is achieved by:

- a. A GPA of 3.0 or better in Psychology and in all overall course work.
- b. Recommendation by at least two faculty members in the Department of Psychological Sciences.
- c. Formal acceptance of the student into the program by the department chair.

Any student eligible for honors and wishing to enter the program should signify the intention to the department chair as soon as possible after the decision to be a Psychology major. The student plans honors work in such a way as best to fulfill individual educational needs. Special attempts are made to integrate psychology with the other disciplines in the liberal arts and sciences. Although each student's program is individually considered, the honors candidate must meet the following requirements:

All required courses must be completed with an average of 3.00 or better.

## Complete the following courses (35 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr
- PSY 4320 - Advanced Research 3 cr
- PSY 4920 - Honors Thesis 3 cr

## And complete

a minimum of two Psychology electives (6 cr)

OR

one of these Concentrations in Psychology:

- Psychology: Developmental (BA.PSY.DEV)
- Psychology: Forensic (BA.PSY.FOR)
- Psychology: Health (BA.PSY.HLT)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.



A minor in Statistics is strongly recommended

## **Psychology: Major-by-Contract (BA.SSC.PSY)**

This major is for students who want to design a program of study that comprises two academic disciplines, one of which must be Psychology. The contract is designed and signed by the student, a Psychology faculty sponsor, and a faculty sponsor from another complementary discipline (e.g. Economics, Geography, History, Politics, Sociology, Women's and Gender Studies, or another appropriate academic discipline) chosen by the student in consultation with the student's faculty advisor. The program must include at least 30 credits, with at least 18 credits at the upper level. Credits in the major should be balanced between the two selected disciplines. The contract must include an Independent Study or Seminar at the 4000 level, but may include only one Independent Study per discipline.

Normally, the contract should be approved by the time the student has reached the fifth semester or 75 credits. The contract must be reviewed and signed by the student's faculty advisor and the chair of the sponsoring department and ratified by an academic dean. The contract may be reviewed and modified, but any changes must be approved by all parties to the contract. A student may terminate the contract by electing another major.

In addition to the major, students will also complete 12 credits in related work chosen in consultation with the faculty advisor, or a minor of 18-24 credits in a third social science or another appropriate academic discipline. A second major may be substituted for the related work or minor. Approval of the sponsoring department chair is required.

## **Minors**

### **Psychology Minor (PSY)**

This minor is offered by the Department of Psychological Sciences. Complete 21 credits in Psychology to include at least two 4000-level courses or seminars.

## **Graduate Degrees**

### **MA in School Psychology**

Master of Arts in School Psychology: [see the Graduate Catalog](#)

## **Sociology, Social Work, and Criminal Justice Department**

*Department Chair: Professor David Ellenbrook*

*Coordinator of Criminal Justice Program: Professor Victoria DeRosia*

*Coordinator of Social Work Program: Professor Lillian Jackson*

*Coordinator of Sociology Program: Professor Phil Lamy*

The Department offers majors in Sociology leading to the Bachelor of Arts degree, a major in Social Work leading to the Bachelor of Social Work degree, an Associate in Science in Criminal Justice, a Bachelor of Arts in Criminal Justice and minors in Criminal Justice and Sociology. The Bachelor of Social Work degree program is accredited by the Council on Social Work Education.

For more information please visit our website at [www.castleton.edu/Sociology\\_SW\\_CJ/index.htm](http://www.castleton.edu/Sociology_SW_CJ/index.htm)

## Bachelor's Degrees

### Criminal Justice (BA.CRJ)

Students graduating with a B.A. degree in Criminal Justice will:

1. Know the difference between the criminal justice system and process, be able to identify historical trends in the evolution of each of the three components of the system, and identify and define the stages of the criminal justice processes. Additionally, they will be able to identify and compare the roles and responsibilities of criminal justice professionals throughout the system at each stage of the process.
2. Know the sources of law in American society, distinguish between criminal and civil law, and identify U.S. Constitutional amendments most closely associated with criminal justice, as well as important U.S. Supreme Court decisions pertaining to those amendments.
3. Be aware of current controversial issues in criminal justice and a range of policies and strategies for addressing those issues.
4. Understand the importance of organizational and management theory as applied to criminal justice, including such concepts as organizational environment, communication, motivation, occupational socialization, and managing change.
5. Be able to recognize and evaluate various methods of gathering data about crime and patterns of crime and victimization, recognize and compare various theories of crime causation, and identify a variety of approaches to crime prevention.

### Complete these Criminal Justice courses (39 cr):

*Majors should complete CRJ 1010, CRJ 2010, CRJ 2020, CRJ 2080 in their first two years of study.  
Majors must earn a "C" average or better in CRJ 2010, CRJ 2020, and CRJ 2080 and an overall 2.0 average in all CRJ courses in the major.*

- CRJ 1010 - Introduction to Criminal Justice **3 cr** (must be completed with a C or better)
  - CRJ 2010 - Law Enforcement in America **3 cr**
  - CRJ 2020 - American Judicial Process **3 cr**
  - CRJ 2080 - Correctional Philosophies and Practices **3 cr**
  - CRJ 2510 - Criminal Law **3 cr**
  - CRJ 2810 - Field Experience **2 cr**
  - CRJ 3010 - Crime Victims **3 cr**
  - CRJ 3020 - Criminal Justice Administration **4 cr** \*
  - CRJ 3170 - Ethical Issues in Criminal Justice **3 cr**
  - CRJ 4720 - Senior Seminar in Criminal Justice **3 cr**
  - and at least 3 additional CRJ electives, 2 of which must be at the 3000 or 4000 level **9 cr**
- \*Students must attend course-related out-of-class meetings as scheduled.

### and complete one of the following courses (3 cr):

- SOC 2040 - Race, Ethnicity, Class and Gender **3 cr**
- SWK 2040 - Discrimination in American Society **3 cr**

### and complete one of the following courses (3 cr):

- SOC 3210 - Criminology 3 cr
- PSY 3160 - Criminal Behavior 3 cr

and complete one of the following courses (4 cr):

- SOC 3910 - Research Methods 4 cr
- PSY 3151 - Psychological Research I 4 cr [For double majors in CRJ and PSY only]

(Credits required for the major: 49 cr)

And complete a minor

Consult with your Criminal Justice Advisor to select a minor.

A second major may be substituted for the minor.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements

**Note: CRJ majors must complete these specific General Education courses:**

- MAT 2021 - Statistics I 3 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- SOC 1010 - Introduction to Sociology 3 cr

## Social Work (BSW.SWK)

### Mission Statement

Consistent with the mission of the University and EPAS (2008) requirements for the Council on Social Work Education, the Baccalaureate Social Work Program's mission is to prepare students to be competent and effective professionals for entry-level professional generalist practice. As one of two BSW programs in a small state and as part of the Vermont State College system, the Program will prepare many of Vermont's BSW level practitioners.

Students will acquire social work knowledge based on a body of knowledge, values and skills of the profession. They will be prepared and encouraged to provide leadership in the development of service delivery systems that promote human rights, and social and economic justice. Students will reflect the profession's core values of service, social justice, the dignity and worth of the person, the importance of human relationships, integrity, competence, human rights, and scientific inquiry.

### Overview

The social work program offers a Baccalaureate of Social Work degree (BSW.SWK). The primary mission of the Castleton University Social Work program is to graduate individuals with a commitment to social change and social justice for vulnerable populations in society. The program's mission includes providing access for Vermont students to a professional education and the preparation of competent professionals to staff social service delivery systems in the State of Vermont. The program goals and student learning outcomes are consistent with the accreditation requirements of the Council on Social Work Education. The program complements and integrates the liberal arts and sciences with a

professional course of study. The Castleton University Social Work program is designed to provide knowledge, skills and ethics for beginning-level generalist professional practice and the academic preparation for graduate study in social work. Generalist social work practice consists of a common core of knowledge, values, and skills that can be applied across diverse client systems to enhance the social functioning of those systems.

Castleton's BSW graduates are employed in a wide range and variety of agencies and organizations which serve the needs of many different people some of which are: nursing homes, hospices, hospitals, home care agencies, substance abuse programs, mental health services, mental retardation/developmental disabilities services, vocational rehabilitation services, public health agencies, community action agencies, family service agencies, children 38 youth services, family service agencies, aging services, residential treatment programs, child and adult day care centers, domestic violence programs, homeless shelters, criminal justice agencies, schools (elementary and secondary), income maintenance programs, and legal services agencies. The BSW degree also prepares the student for entry into graduate programs. Many Castleton Social Work graduates are granted advanced standing in Master of Social Work programs. Thus, the time to complete the Master of Social Work is shortened by several months.

### **Competencies and Practice Behaviors**

As a program accredited by the Council on Social Work Education, the Castleton University program goals and objectives are consistent with the *Educational Policy and Accreditation Standards* of that organization.

#### **Identify as a professional social worker and conduct oneself accordingly.**

- a. Advocate for client access to the services of social work;
- b. Practice personal reflection and self-correction to assure continual professional development;
- c. Attend to professional roles and boundaries;
- d. Demonstrate professional demeanor in behavior, appearance, and communication;
- e. Engage in career-long learning; and
- f. Use supervision and consultation.

#### **Apply social work ethical principles to guide professional practice**

- a. Recognize and manage personal values in a way that allows professional values to guide practice;
- b. Make ethical decisions by applying standards of the National Association of Social Workers Code of Ethics<sup>2</sup> and, as applicable, of the International Federation of Social Workers/International Association of Schools of Social Work Ethics in Social Work, Statement of Principles<sup>3</sup>
- c. Tolerate ambiguity in resolving ethical conflicts; and
- d. Apply strategies of ethical reasoning to arrive at principles decisions.

#### **Apply critical thinking to inform and communicate professional judgments**

- a. Distinguish, appraise, and integrate multiple sources of knowledge, including research-based knowledge, and practice wisdom
- b. Analyze models of assessment, prevention, intervention, and evaluation; and
- c. Demonstrate effective oral and written communication in working with individuals, families, groups, organizations, communities, and colleges.

#### **Engage diversity and difference in practice**

- a. Recognize the extent to which a culture's structures and values may oppress, marginalize, alienate, or create or enhance privilege and power;
- b. Gain sufficient self-awareness to eliminate the influence of personal biases and values in working with diverse groups;
- c. Recognize and communicate their understanding of the importance of difference in shaping life experiences; and
- d. View themselves as learners and engage those with whom they work as informants.

#### **Advance human rights and social and economic justice**

- a. Understand the forms and mechanisms of oppression and discrimination;

- b. Advocate for human rights and social and economic justice; and
- c. Engage in practices that advance social and economic justice.

**Engage in research-informed practice and practice-informed research**

- a. Use practice experience to inform scientific inquiry and
- b. Use research evidence to inform practice.

**Apply knowledge of human behavior and the social environment**

- a. Utilize conceptual frameworks to guide the processes of assessment, intervention, and evaluation; and
- b. Critique and apply knowledge to understand person and environment.

**Engage in policy practice to advance social and economic well-being and to deliver effective social work services**

- a. Analyze, formulate, and advocate for policies that advance social well-being; and
- b. Collaborate with colleagues and clients for effective policy action.

**Respond to contexts that shape practice**

- a. Continuously discover, appraise, and attend to changing locales, populations, scientific and technological developments, and emerging societal trends to provide relevant services; and
- b. Provide leadership in promoting sustainable changes in service delivery and practice to improve the quality of social services.

**Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.**

**Engagement: Social workers**

- a. Substantively and effectively prepare for action with individuals, families, groups, organizations, and communities;
- b. Use empathy and other interpersonal skills; and
- c. Develop a mutually agreed-on focus of work and desired outcomes.

**Assessment: Social workers**

- a. Collect, organize, and interpret client data;
- b. Assess client strengths and limitations;
- c. Develop mutually agreed-on intervention goals and objectives; and
- d. Select appropriate intervention strategies.

**Intervention: Social workers**

- a. Initiate actions to achieve organizational goals;
- b. Implement prevention interventions that enhance client capacities;
- c. Help clients resolve problems;
- d. Negotiate, mediate, and advocate for clients; and
- e. Facilitate transitions and endings.

**Evaluation: Social workers**

- a. Social workers critically analyze, monitor, and evaluate interventions.

**Admission to the Social Work Program**

1. During the second semester of the junior year the student must submit a letter of intent to major in social work. This letter must identify why the student has chosen social work as a major and their professional objectives upon graduation. A statement of a student's personal values demonstrating congruency with social work values shall be included in the letter.
2. In the same semester an interview with program faculty will be scheduled as part of the admission process. This will allow the student to meet program faculty members and the faculty to assess the prospective student's written and communication skills.
3. Program faculty will conduct a review of the student's academic performance during this semester.

4. Students must sign a Student/Program Contract, upon acceptance by social work faculty into the social work program during this semester.
5. Signed Academic Approval form must be submitted to Financial & Registration Services.

### **Continuation of the Social Work Program**

Continuation is determined by continuing progress toward a professional level of performance. In addition to a mastery of knowledge the student must demonstrate the acquisition of professional attitudes, values, and skills and commitment to the Code of Ethics of the National Association of Social Workers. Only those students whose academic accomplishments and personal attitudes, skills and values indicate reasonable promise in social work, as can be determined in the university setting, will be recommended for field placements. A minimum grade of "C" in SWK 3010 - Social Work Practice I, SWK 4020 - Social Work Practice II, and SWK 4811 - Field Experience I must be maintained for continuation in the program.

### **Admission to Field Instruction**

1. Minimum GPA requirement (2.0).
2. A letter grade of C or better for the practice course SWK 3010.
3. A signed Student/Program Contract upon acceptance by social work faculty into the social work program.
4. Completion of all prerequisites and permission of the university field instructor.
5. Students who are denied admission to field instruction may reapply at a later date. Students who reapply must provide evidence that the reasons for which admission was originally denied have been appropriately remedied.

### **Termination from the Program for Academic and Non-Academic Reasons**

Not every student will necessarily be appropriate for the practice of social work.

1. Failure to maintain a minimum GPA.
2. Inadequate interpersonal relationship skills for social work practice.
3. Inadequate written or verbal communication skills.
4. Violations of the NASW Code of Ethics.
5. Unresolved personal issues that impair performance in the classroom or in field instruction.
6. Lying, cheating, or plagiarizing in course work or field work.
7. Persistently inadequate performance in field instruction activities as well as failure to accomplish field instruction objectives.
8. Excessive class or field work absences.
9. Persistent inability to meet dates on assignments and projects.
10. Students who are terminated from the program may contest the faculty decision in writing within ten days of such decision to request a meeting with the faculty. If resolution is not made, they may appeal to the Academic Dean of the university who will make the final determination.

### **Complete the Gen Ed requirements, including:**

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
  - MAT 2021 - Statistics I 3 cr
  - PSY 1012 - Introduction to Psychological Science 3 cr
  - SOC 1010 - Introduction to Sociology 3 cr
- AND EITHER:
- BIO 1010 - Human Biology and Laboratory 4 cr
- OR BOTH:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr

## And complete the following related courses:

(or equivalents as determined by the program coordinator)

- SOC 2130 - The Community in American Society 3 cr OR SSC 1010 - Introduction to the Study of Community 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr

## And complete the following Social Work courses:

- SWK 1010 - Introduction to Human Services 3 cr
- SWK 1810 - Early Field 1 cr
- SWK 2011 - Human Behavior In The Social Environment I 3 cr
- SWK 2012 - Human Behavior In The Social Environment II 3 cr
- SWK 2040 - Discrimination in American Society 3 cr
- SWK 3010 - Social Work Practice I 3 cr
- SWK 3020 - History And Philosophy Of Social Work 3 cr
- SWK 4010 - Social Welfare Policies, Programs and Issues 3 cr
- SWK 4020 - Social Work Practice II 3 cr
- SWK 4030 - Social Work Practice III 3 cr
- SWK 4720 - Social Work Capstone Seminar 3 cr
- SWK 4811 - Field Experience I 6 cr
- SWK 4812 - Field Experience II 6 cr

## Note:

- SWK 4811 and SWK 4812 must be taken consecutively during the same academic year.
- SWK 4020 and SWK 4811 must be taken concurrently.
- SWK 4030 and SWK 4812 must be taken concurrently.
- SWK 1810 is required of students with no prior human services experience.
- In the spring semester of the junior year, students sign an agreement that stipulates expectations and conditions for continuance in the program. In addition to academic requirements, students must demonstrate professionally appropriate skills, attitudes, and values as a condition of remaining in the program.

## Recommended but not required:

- CRJ 1010 - Introduction to Criminal Justice 3 cr
- CRJ 3160 - Juvenile Justice 3 cr
- ECO 1010 - Economics and Society 3 cr
- PSY 2040 - Social Psychology 3 cr
- SOC 1030 - Social Problems 3 cr

## **Sociology (BA.SOC)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## **Bachelor of Arts in Sociology**

Complete these required courses (13 cr):

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr

And complete 18 additional credits in SOC and/or ANT

Choose the 18 credits in consultation with the departmental advisor

And complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Sociology: Community Studies (BA.SOC.CMS)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.



3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## BA in Sociology with a Concentration in Community Studies

This concentration will actively engage students in community organization and civic participation. By combining the traditional classroom setting with service-learning and community service internships, students will obtain the conceptual tools and practical field experiences necessary for civic leadership and active participation in democratic communities. Students will also gain experience in grant writing and will work with Castleton's Stafford Center for the Support and Study of the Community.

### Complete 31 credits in Sociology to include:

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 1030 - Social Problems 3 cr
- SOC 2130 - The Community in American Society 3 cr
- SOC 3310 - Community Action Seminar 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- SOC 4810 - Internship in Sociology 1-12 cr [3 cr required]
- and complete 6 additional credits in SOC

and complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Sociology: Criminology (BA.SOC.CRM)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.

4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## BA in Sociology with a Concentration in Criminology

This concentration focuses attention on applications of Sociological research and theory to the study of crime: including its etiology, the police, courts, corrections, victims and law.

Complete 31 credits in Sociology to include:

- CRJ 3010 - Crime Victims 3 cr
- CRJ 3050 - Law and Society 3 cr
- SOC 1010 - Introduction to Sociology 3 cr
- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SOC 2210 - Deviant Behavior 3 cr
- SOC 3210 - Criminology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- and complete 3 additional credits in SOC

and complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Sociology: Cultural Anthropology (BA.SOC.CAN)

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## BA in Sociology with a Concentration in Cultural Anthropology

This concentration focuses on the rich diversity of human cultures through cross-cultural analyses of a wide variety of topics and perspectives including religion, music, food, environmental studies, area studies, symbolic systems, cultural materialism, and globalism. The courses are designed to expose students to the crucial influences culture has in the lives of people in American society and around the world.

Complete these courses (22 cr):

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- SOC 1010 - Introduction to Sociology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- and complete 6 additional credits in SOC

and complete 3 of the following 7 courses (9 cr):

- ANT 2210 - Anthropology and the Environment 3 cr
- ANT 2710 - Selected Topics in Anthropology 3 cr
- ANT 3210 - Anthropology of Food 3 cr
- ANT 4910 - Independent Study 3 cr
- SOC 3140 - Sociology of Popular Music 3 cr
- SOC 3160 - Anthropology of Religion 3 cr
- SOC 4910 - Independent Study 1-3 cr [3 cr required]

and complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### **Sociology: Honors (BA.SOC.HON)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.

4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## BA in Sociology with Honors

The Honors program is designed to increase the depth of the superior student's work in Sociology through a rigorous academic curriculum, greater individual contact with faculty, and the performance of original research.

### Eligibility:

1. GPA of 3.0 or better in Sociology and overall course work.
2. Recommendation by at least two faculty members from the Sociology, Social Work, and Criminal Justice Department.

The student should make formal application to the department chair at the end of the sophomore year. At this time an individual program will be designed and agreed upon by the student and department chair. It will include, at a minimum, the following requirements:

### Requirements

#### Complete these required courses (13 cr):

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr

and complete 18 additional credits in SOC and/or ANT courses chosen in consultation with the department advisor

and complete 12 credits in related work (approved by the coordinator)

and complete the Statistics courses (6 cr):

- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

and complete a senior thesis through Independent Study or Seminar.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Note:

-Students must attain a GPA of at least 3.0.

-Strongly recommended is an intermediate proficiency in a computer language or successful completion of two years of a foreign language at the university level.

*Recommendations of departmental honors are made on the basis of performance in course work and the senior thesis.*

## **Sociology: Major-by-Contract (BA.SSC.SOC)**

This major is for students who want to design a program of study that comprises two academic disciplines, one of which must be Sociology. The contract is designed and signed by the student, a Sociology faculty sponsor, and a faculty sponsor from another complementary discipline. Among the complementary disciplines that a student may choose from are Economics, Geography, History, Politics, Psychology, Women's and Gender Studies, or another appropriate academic discipline chosen by the student in consultation with the student's faculty advisor. The program must include at least 30 credits, with at least 18 credits at the upper level. Credits in the major should be balanced between the two selected disciplines. The contract must include an Independent Study or Seminar at the 4000 level, but may include only one Independent Study per discipline.

Normally, the contract should be approved by the time the student has reached the fifth semester or 75 credits. The contract must be reviewed and signed by the student's faculty advisor and the chair of the sponsoring department and ratified by an academic dean. The contract may be reviewed and modified, but any changes must be approved by all parties to the contract. A student may terminate the contract by electing another major.

In addition to the major, students will also be required to complete 12 credits in related work chosen in consultation with the faculty advisor, or a minor of 18-24 credits in a third social science or another appropriate academic discipline. A second major may be substituted for the related work or minor. Approval of the sponsoring department chair is required.

## **Sociology: Power and Conflict (BA.SOC.PWC)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## **BA in Sociology with a Concentration in Power and Conflict**

At the core of this concentration is an analysis of the structures of power and the resulting oppression. The concentration will examine the interplay between race, class and gender.

Complete the following courses (25 cr):

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 1030 - Social Problems 3 cr
- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SOC 3220 - Social Movements of The 1960's 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- and complete 3 additional credits in SOC

and complete one of the following courses (3 cr):

- SOC 2170 - Gender Studies 3 cr
- WGS 1020 - Introduction to Women's And Gender Studies 3 cr

and complete one of the following courses (3 cr):

- CRJ 3050 - Law and Society 3 cr
- SOC 2240 - The Changing Family 3 cr
- SOC 3120 - Sociology of Education 3 cr

and complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Associate's Degrees**

### **Criminal Justice: Associates (AS.CRJ)**

Students graduating with an Associate Degree in Criminal Justice will:

1. Know the difference between the criminal justice system and process, be able to identify historical trends in the evolution of each of the three components of the system, and identify and define the stages of the criminal justice processes. Additionally, they will be able to identify and compare the roles and responsibilities of criminal justice professionals throughout the system at each stage of the process.
2. Know the sources of law in American society, distinguish between criminal and civil law, and identify U.S. Constitutional amendments most closely associated with criminal justice, as well as important U.S. Supreme Court decisions pertaining to those amendments.

## Complete these Criminal Justice courses (29 cr):

Majors should complete CRJ 1010, CRJ 2010, CRJ 2020, CRJ 2080 in their first three semesters of study.

- CRJ 1010 - Introduction to Criminal Justice 3 cr \*
  - CRJ 2010 - Law Enforcement in America 3 cr \*
  - CRJ 2020 - American Judicial Process 3 cr \*
  - CRJ 2080 - Correctional Philosophies and Practices 3 cr \*
  - CRJ 2510 - Criminal Law 3 cr \*
  - CRJ 2810 - Field Experience 2 cr
  - and an additional 12 credits in CRJ courses 12 cr
- \*Courses with an asterisk must be completed with an average of "C" (2.00) or better.

## and complete one of the following courses (3 cr):

- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SWK 2040 - Discrimination in American Society 3 cr

## and complete these specific General Education courses (9 cr):

- MAT 2021 - Statistics I 3 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- SOC 1010 - Introduction to Sociology 3 cr

(Credits required for the major: 41 cr)

## Note:

In-service students should discuss these requirements with their Criminal Justice Advisor and/or the Coordinator of the Criminal Justice Program. Transfer students from criminal justice programs in other schools are urged to review their transcript evaluation with their Advisor and /or the Coordinator. They must satisfy the General Education and academic major requirements, regardless of the number of criminal justice credits transferred.

## Minors

### Criminal Justice Minor (CRJ)

This minor is offered by the Criminal Justice Department.

## Complete the introductory course (3 cr):

- CRJ 1010 - Introduction to Criminal Justice 3 cr

## and complete two of the following courses (6 cr):

- CRJ 2010 - Law Enforcement in America 3 cr

- CRJ 2020 - American Judicial Process 3 cr
- CRJ 2080 - Correctional Philosophies and Practices 3 cr

and complete an additional 9 credits in CRJ courses (9 cr)

Total credits required: 18 cr

## **Sociology Minor (SOC)**

A minor in Sociology can be earned by completing 18 credits in SOC and/or ANT courses. The minor is offered by the Department of Sociology, Social Work, and Criminal Justice.

## **Theater Arts Department**

*Department Chair: Professor Harry McEnemy*

The Theater Arts Department offers students an opportunity to approach the study of theater in a liberal arts context; the program is designed to foster an appreciation for theater as an art, while at the same time preparing students for the demands of professional lives in theater and related fields. The department offers a Theater Arts Major with concentrations in Acting and Directing (BA.THA.AAD) or Technical Theater and Design (BA.THA.TTD). The department offers three minors: Minor in Theater Arts (THE), Minor in Theater Education (TED), and Minor in Film Studies (FIL).

The Acting and Directing and Technical Theater and Design concentrations are designed to prepare students for professional careers and/or graduate or conservatory level study in theater. The Theater Education minor prepares students intending to teach general theater survey, history, aesthetics and production. Students wishing to become licensed to teach theater (K-12) must pursue a major and coursework in the Education Department.

Students must select and complete the required courses for at least one of the theater major areas of concentration. Students may select and complete more than one concentration by fulfilling all the requirements in each area (courses in common will count for both areas, courses that are specific to one area may be used to fulfill elective requirements in the other chosen concentration).

All students graduating with a degree in Theater Arts should be able to:

1. Discuss and analyze productions in terms of thematic concerns, literary qualities, and artistic approaches.
2. Demonstrate a high degree of competency in one or more areas of theatrical production such as directing, design, acting, writing, stage management, or theater education.
3. Utilize materials in appropriate manners to achieve desired effects and communication to an audience.
4. Incorporate input and ideas generated through the collaborative process of production into their own creative work.
5. Present their work for review in a professional manner consistent with their areas of concentration.

For more information you can visit our website at [www.castleton.edu/Theatre2/index.htm](http://www.castleton.edu/Theatre2/index.htm)

## **Bachelor's Degrees**

### **Theater Arts: Acting and Directing (BA.THA.AAD)**



All students graduating with a degree in Theater Arts should be able to:

1. Discuss and analyze productions in terms of thematic concerns, literary qualities, and artistic approaches.
2. Demonstrate a high degree of competency in one or more areas of theatrical production such as directing, design, acting, writing, stage management, or theater education.
3. Utilize materials in appropriate manners to achieve desired effects and communication to an audience.
4. Incorporate input and ideas generated through the collaborative process of production into their own creative work.
5. Present their work for review in a professional manner consistent with their areas of concentration.

## BA in Theater with a Concentration in Acting and Directing

Complete a minimum of 4 semesters of Stage Production (4 cr):

- THA 1001 - Stage Production 1 cr

and complete the following courses (24 cr):

- THA 1041 - Introduction to Theater Arts 3 cr
- THA 1111 - Stagecraft 3 cr
- THA 2011 - Survey of Theater History I 3 cr
- THA 2012 - Survey of Theater History II 3 cr
- THA 2121 - Acting I 3 cr
- THA 2140 - Introduction to Theatrical Design 3 cr
- THA 3211 - Directing I 3 cr
- THA 3310 - Dramatic Theory and Criticism 3 cr

and complete a minimum of 15 credits from the following (15 cr):

- DAN 1040 - Introductory Dance Workshop 3 cr
- THA 2122 - Acting II 3 cr
- THA 3020 - Acting for the Camera 3 cr
- THA 3030 - Children's Theater 3 cr
- THA 3123 - Acting III 3 cr
- THA 3124 - Acting IV 3 cr
- THA 3212 - Directing II 3 cr

and complete 12 credits in a related field of study approved by the department (12 cr)

and in the senior year (4 cr):

- THA 4030 - Portfolio Preparation 1 cr
- THA 4720 - Senior Project in Theater 3 cr

(Credits required for the major: 59 cr)

## And complete the university's Gen Ed requirements

The department recommends that students pursuing a Theater Arts degree take additional courses in English, Literature, Communication, Film Studies, Music, and Art, either as electives and/or to satisfy General Education requirements.

**Review** the Gen Ed requirements.

## **Theater Arts: Technical Theater and Design (BA.THA.TTD)**

All students graduating with a degree in Theater Arts should be able to:

1. Discuss and analyze productions in terms of thematic concerns, literary qualities, and artistic approaches.
2. Demonstrate a high degree of competency in one or more areas of theatrical production such as directing, design, acting, writing, stage management, or theater education.
3. Utilize materials in appropriate manners to achieve desired effects and communication to an audience.
4. Incorporate input and ideas generated through the collaborative process of production into their own creative work.
5. Present their work for review in a professional manner consistent with their areas of concentration.

## BA in Theater with a Concentration in Technical Theater and Design

Complete a minimum of 4 semesters of Stage Production (4 cr):

- THA 1001 - Stage Production 1 cr

and complete the following courses (24 cr):

- THA 1041 - Introduction to Theater Arts 3 cr
- THA 1111 - Stagecraft 3 cr
- THA 2011 - Survey of Theater History I 3 cr
- THA 2012 - Survey of Theater History II 3 cr
- THA 2121 - Acting I 3 cr
- THA 2140 - Introduction to Theatrical Design 3 cr
- THA 3211 - Directing I 3 cr
- THA 3310 - Dramatic Theory and Criticism 3 cr

and complete a minimum of 15 credits from the following (15 cr):

- THA 2130 - Costume Design and Construction 3 cr
- THA 2510 - Scenic Painting 3 cr
- THA 3050 - Stage Makeup 3 cr
- THA 3120 - Lighting Design 3 cr
- THA 3220 - Computer Aided Design for Theatre 3 cr

- THA 3331 - Scene Design 3 cr
- THA 4020 - Stage Management 3 cr
- THA 4332 - Advanced Design for the Theater 3 cr

and complete 12 credits in a related field of study approved by the department (12 cr)

and in the senior year (4 cr):

- THA 4030 - Portfolio Preparation 1 cr
- THA 4720 - Senior Project in Theater 3 cr

(Credits required for the major: 59 cr)

And complete the university's Gen Ed requirements

The department recommends that students pursuing a Theater Arts degree take additional courses in English, Literature, Communication, Film Studies, Music, and Art, either as electives and/or to satisfy General Education requirements.

**Review** the Gen Ed requirements.

## Minors

### Theater Arts Minor (THA)

Any student may earn a minor in Theater Arts by completing 18 credits in the Theater Arts Department. A minimum of 12 credits must be at the 2000 level or higher. Students are advised to work with a departmental advisor to develop a sequential course of study.

## Graduate Degrees

### MA in Theater

Master of Arts in Theater: **see the Graduate Catalog**

## Women's and Gender Studies

*Coordinator: Assistant Professor Melinda Mills*

The Women's and Gender Studies program at Castleton offers a major (BA.WGS) as well as a minor in the field.

The courses in the program cut across several subject areas. The emphasis is on encouraging students to think critically and on re-examining history and disciplines cross-culturally using a feminist perspective. Drawing upon academic

areas such as media studies, history, education, economics, psychology, sociology, literary criticism, cultural studies, and anthropology, the program emphasizes and encourages interdisciplinary thought.

The field of Women's and Gender Studies raises important questions regarding the way we have organized ourselves, our chief cultural, economic, social, and political institutions, and knowledge itself. As an area of academic study, Women's and Gender Studies provides new frameworks that are sensitive not only to issues of gender, but also to issues of race, class, and ethnicity. By analyzing the powerful and problematic impact of gender inequalities, Women's and Gender Studies revises the way we see ourselves and our world.

## Bachelor's Degrees

### Women's and Gender Studies (BA.WGS)

The Women's and Gender Studies major provides students with the opportunity to explore a variety of topics with an interdisciplinary approach. Students are required to take core courses in the field, in order to establish a shared language and understanding of the world. This also equips students with new tools to see the world differently. Students are encouraged to claim their education and activate their knowledge during their academic careers at Castleton.

The Women's and Gender Studies major prepares students to engage in important and relevant issues; the courses encourage students to think across the curriculum. Students learn critical thinking skills, and other skills that cultivate their global citizenship. Faculty support student-initiated projects that reflect traditional research, as well as projects focused on activism and advocacy.

Upon completion of the Women's and Gender Studies major, students will be able to demonstrate knowledge and understanding of the following:

- The interdisciplinary characteristic of the field, and the ways that such interconnections enhance knowledge and knowledge production.
- The "situated knowledge" that individual's possess as a reflection of their social locations and related experiences in the world.
- The ways of seeing the world through the theoretical framework of "intersectionality," or the intersections of gender, race, class, sexuality, and other social locations.
- The construction of, and appreciation for, difference, within and across categories of gender, as well as race, class, sexuality, and other social locations.
- The historical and contemporary relevance of activism, advocacy, and social justice within the field, and the importance of supporting such justice.
- The importance of centering the experiences and voices of marginalized and oppressed groups of people and advocating for change to minimize existing social inequities.

### Complete the following courses (24-27 cr):

Take these 4 core courses:

- WGS 1020 - Introduction to Women's And Gender Studies 3 cr
- WGS 3210 - Feminist Thought 3 cr
- WGS 3310 - Feminist Methods: Research and Action 3 cr \*
- WGS 4610 - Senior Project in Women's and Gender Studies 3 cr

And take one of the following:

- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SWK 2040 - Discrimination in American Society 3 cr

And take **one** of the following:

- ENG 3610 - Women Writers (L) 3 cr
- HIS 2210 - History of Women in the U.S. 3 cr

And take **one** of the following:

- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- SWK 2030 - Human Sexuality 3 cr

And take **one** of the following:

- WGS 4510 - Activism and Advocacy Project in WGS 3 cr
- WGS 4810 - Field Experience in Women's and Gender Studies 3-6 cr
- WGS 4820 - Internship in Women's and Gender Studies 1-6 cr

\*Students double-majoring in WGS and Sociology or Criminal Justice may substitute SOC 3910 for WGS 3310. Students double-majoring in WGS and Psychology may substitute PSY 3151 for WGS 3310.

## And complete 12 additional credits in WGS or related disciplines

In selecting these courses, first consult with—and gain the approval of—the WGS Coordinator.

(Total credits required: 36-39 cr)

Note: At least 18 credits of the major must be at the 3000 level or above.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Minors

### Women's and Gender Studies Minor (WGS)

Complete the following course:

- WGS 1020 - Introduction to Women's And Gender Studies 3 cr

and complete at least 15 credits from following list of courses:

- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- CRJ 3040 - Women and Criminal Justice 3 cr
- ECO 3050 - Women in the Economy 3 cr
- ENG 3610 - Women Writers (L) 3 cr
- HIS 2210 - History of Women in the U.S. 3 cr
- HIS 3345 - Masculinities in Modern Europe 3 cr
- HIS 3450 - Women in European History 3 cr
- HIS 3475 - Women and Gender in African History 3 cr
- PED 3060 - Women's Health Issues 3 cr
- PSY 1050 - Human Growth and Development 3 cr

- PSY 3240 - Social Development **3 cr**
- PSY 4230 - Psychology of Rape **3 cr**
- SOC 1030 - Social Problems **3 cr**
- SOC 2040 - Race, Ethnicity, Class and Gender **3 cr**
- SOC 2170 - Gender Studies **3 cr**
- SOC 3610 - Seminar in Advocacy **4 cr**
- SPA 3160 - Latin American Women Writers **3 cr**
- SWK 2020 - Family Violence **3 cr**
- SWK 2030 - Human Sexuality **3 cr**
- WGS 2080 - Thinking Bodies **3 cr**  
or SOC 2080 - Thinking Bodies **3 cr**
- WGS 2710 - Special Topics **3 cr**
- WGS 2910 - Independent Study **1-3 cr**
- WGS 3210 - Feminist Thought **3 cr**
- WGS 3310 - Feminist Methods: Research and Action **3 cr**
- WGS 3710 - Special Topics **3 cr**
- WGS 3910 - Independent Study **1-3 cr**
- WGS 4510 - Activism and Advocacy Project in WGS **3 cr**
- WGS 4610 - Senior Project in Women's and Gender Studies **3 cr**
- WGS 4810 - Field Experience in Women's and Gender Studies **3-6 cr**
- WGS 4820 - Internship in Women's and Gender Studies **1-6 cr**
- WGS 4910 - Independent Study **1-3 cr**

**(Total credits required: 18 cr)**

With prior approval of the Women's and Gender Studies Coordinator, other designated courses may be taken to fulfill the minor. These courses are offered on demand, with the topic announced at registration and the Women's and Gender Studies option indicated in the course description.

## World Languages

*Coordinator: Professor Ana Maria Alfaro Alexander*

Spanish, which is offered as a major at Castleton, is a vital and vibrant language in world communication, business, e-commerce, politics, and culture. The Spanish Program contributes to the university's mission in an environment that embraces a holistic approach and retains a genuine interest in cultivating the love for the Spanish languages and cultures.

Some 387 million people speak Spanish as a first language and a total of 460 million people speak it as a first or second language. Spanish is now the most spoken language after English in this country. It is also the second most used language of the Web in the USA. In the 21st century, Spanish has become the second most studied language and the second language for global communication.

Spanish is gaining more recognition in the academic world. It is a promising major for students from all backgrounds. It is also an excellent second major as it is a tool that opens many doors to various fields of study and work environments. A second major in Spanish places the student ahead in the marketplace.

The Spanish program makes it possible for students to acquire cultural knowledge and to become proficient in the Spanish language. Our faculty is composed of native speakers from different parts of the Spanish speaking countries; we have a professor from Peru, another from Argentina, and each year we have a teaching assistant typically from

Central or South America. Our students benefit from a diverse student population: some native speakers, others that have gone abroad to study Spanish, and novice but ambitious Vermont and out-of-state students.

The program offers small, yet personalized classes that are learner centered. Our students may voice their interests and opinions at our weekly Spanish Club meetings. They are offered an opportunity to practice their communicative skills outside the classroom setting at our weekly language table meetings. They can put their creativity and competitive minds to work at our Cultural Semester agenda, which includes Hispanic cooking workshops, dance classes, film showings, and/or our full immersion field trips to cities such as New York, Boston, or Montreal. Each semester brings in new forces and special people that help us define the particular needs. Our students have had hands-on experience while translating official documents and they had a unique opportunity to teach Spanish to the little ones from a local middle school. As Spanish is increasingly being spoken in more areas and by more people, we will continue to find new ways to relate our students to the community.

#### Student Learning Outcomes:

- Senior Spanish majors will be able to speak, live with and relate to peoples of Spanish background in Vermont, the USA and abroad.
- Undergraduate Spanish majors will be able to gain entry to and pass courses taken at accredited universities in Spanish speaking countries.
- Spanish graduates will gain employment using their critical thinking and language/cultural skills in a variety of contexts.

## **Teaching Spanish at the Secondary Level**

Students who wish to teach Spanish at the secondary level should pursue a Bachelor of Arts in Spanish Language and Literature. In addition they must complete the requirements for Secondary Education Licensure outlined in the Education Department listings. Students seeking licensure teaching Spanish at the Secondary level are required to take SPA 4020 - Teaching Spanish as a Foreign Language in Pre K-12 Schools. Students interested in this option should get a second advisor from the education department and apply for acceptance into the Education Department.

## **Study Abroad**

When the major student elects to study abroad in partial fulfillment of the major language requirements, he/she must choose between a semester-long or a summer-long program. If he/she elects to study abroad for a semester, nine credits of the fifteen he/she will receive will be allowed toward the thirty credits in his/her major language.

For more information please visit our website at [www.castleton.edu/spanish/Index.htm](http://www.castleton.edu/spanish/Index.htm)

## **Bachelor's Degrees**

### **Spanish for Business (BA.SPA.BUS)**

Students completing the Bachelor of Arts in Spanish will demonstrate their ability to:

- Speak, live with and relate to peoples of Spanish background in Vermont, the USA and abroad.
- Gain entry to and pass courses taken at accredited universities in Spanish speaking countries.
- Compare favorably with other graduates of Spanish language programs in their ability to gain employment using their critical thinking and language/cultural skills in a variety of contexts.

Complete the following courses in Spanish (12 cr):

- SPA 2030 - Spanish American Cultures 3 cr
- SPA 2040 - Business Spanish 3 cr
- SPA 3010 - Advanced Grammar, Composition and Conversation 3 cr
- SPA 3030 - Advanced Composition and Conversation 3 cr

and complete the following business related courses (12 cr):

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- MAT 2021 - Statistics I 3 cr

and complete one of the following three courses (3 cr):

- ECO 3220 - International Trade and Development 3 cr
- HIS 3210 - Social History of Latin America 3 cr
- HIS 3220 - Revolutions in Latin America 3 cr

and complete 9 credits from ACC, BUS, CIS, or ECO, subject to advisor approval

and complete a semester abroad in a language/internship program (6-12 cr):

(Credits required for the major: 42-48 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Spanish Language and Literature (BA.SPA)**

Students completing the Bachelor of Arts in Spanish will demonstrate their ability to:

- Speak, live with and relate to peoples of Spanish background in Vermont, the USA, and abroad.
- Gain entry to and pass courses taken at accredited universities in Spanish speaking countries.
- Compare favorably with other graduates of Spanish language programs in their ability to gain employment using their critical thinking and language/cultural skills in a variety of contexts.

Complete 30 credits of Spanish at the 2000 level or above



At least 12 of the 30 credits must be in Spanish literature

and complete the following related courses (9 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr
- FLL 1110 - Film and Lit: Hispanic, French and Italian 3 cr
- HIS 2410 - History and Culture of Latin America 3 cr

and complete one semester of Study Abroad

At least 6 credits will be in Spanish language, literature, or culture. These 6 credits are in addition to the 30 credits of work done on campus.

(Credits required for the major: 45 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Teaching Spanish at the Secondary Level

Students who wish to teach Spanish at the secondary level should pursue a Bachelor of Arts in Spanish Language and Literature. In addition they must complete the requirements for Secondary Education Licensure outlined in the Education Department listings. Students seeking licensure teaching Spanish at the Secondary level are required to take SPA 4020 - Teaching Spanish as a Foreign Language in Pre K-12 Schools. Students interested in this option should get a second advisor from the Education Department and apply for acceptance into the Education Department.

## Minors

### Spanish Studies Minor (SPA)

The Spanish Studies Minor is offered by the World Languages Department. Complete a minimum of 18 credits in Spanish courses at the 2000 level or above, of which at least three credits are in language skills courses at the 3000 level.

## Majors & Minors

To earn a **Bachelor's degree**, a student must complete the General Education requirements, satisfy specific degree program requirements, and earn a minimum of 122 credits of which at least 30 credits, including substantial advanced work in the major or concentration, must be earned at Castleton. A minimum cumulative GPA of 2.0 is required for graduation. (Some programs, including those leading to licensure in teaching, require a higher GPA.)

To earn an **Associate's degree**, a student must complete the General Education requirements, satisfy specific degree program requirements, and earn a minimum of 64 credits of which at least 15 credits must be earned

at Castleton. A minimum cumulative GPA of 2.0 is required for graduation. If chosen carefully, the Associate's Degree work can be smoothly transferred into a Bachelor's Degree program if students decide to continue their studies.

While Castleton's Associate's and Bachelor's Degree programs are normally completed in two and four years, respectively, Castleton does not guarantee that all students will necessarily be able to complete their chosen degree programs in these time frames.

## **Bachelor's Degrees**

### **Art: Art Education (BA.ART.ARE)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

### **BA in Art with a Concentration in Art Education**

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And complete these courses (30 cr):

complete these 7 courses:

- ART 1011 - Drawing I 3 cr
- ART 2211 - Painting I 3 cr
- ART 2251 - Sculpture I 3 cr
- ART 2301 - Photography I 3 cr
- ART 2311 - Printmaking I 3 cr
- ART 2420 - Introduction to Art Education 3 cr
- ART 3150 - Art Education: Contemporary Issues and Practice 3 cr

and complete one of these courses:

- ART 1410 - Digital Photography I 3 cr
- ART 2510 - Graphic Arts Production 3 cr

and complete two of these courses:

- ART 2012 - Drawing II 3 cr
- ART 2212 - Painting II 3 cr
- ART 2252 - Sculpture II 3 cr
- ART 2302 - Photography II 3 cr
- ART 2312 - Printmaking II 3 cr
- ART 1231 - Ceramics I 3 cr (offered at CCV)

And take the Capstone courses (4 cr):

- ART 3131 - Professional Studio Arts I 3 cr
- ART 4920 - Senior Exhibition/Presentation 1 cr

(Total Art credits: 46)

And complete the Education Department requirements (35 cr):

Students must choose either Elementary Education Licensure (K-6) or Secondary Education Licensure (7-12).

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Art: Art History (BA.ART.ARH)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## BA in Art with a Concentration in Art History

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And complete these History courses (6 cr):

- HIS 1125 - The Ancient World 3 cr
- HIS 1135 - Global History 3 cr

And complete, with Department approval, 2 courses from these areas (6 cr):

- Digital Photography
- Literature
- Philosophy
- Studio Art

And choose 6 courses from the following (18 cr):

- ARH 2030 - History of Architecture 3 cr
- ARH 2710 - Special Topics in Art History 3 cr
- ARH 3010 - Classical Art: Greece and Rome 3 cr
- ARH 3030 - Italian Renaissance Art 3 cr
- ARH 3040 - The Art of Medieval Europe 3 cr
- ARH 3050 - American Art 3 cr
- ARH 3051 - History of Nineteenth Century Art 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr

- ARH 3070 - Art Since 1945 3 cr

And in the fourth year:

- ARH 4850 - Capstone Presentation 1 cr

(Credits for the major: 43)

And complete a Minor (preferably in Studio Art or History)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Art: Graphic Design (BA.ART.GDS)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## **BA in Art with a Concentration in Graphic Design**

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And take the following Graphic Design courses (33 cr):

- ART 1410 - Digital Photography I 3 cr
- ART 1620 - History of Graphic Design 3 cr
- ART 2040 - Typographic Design 3 cr
- ART 2221 - Graphic Design I 3 cr
- ART 2222 - Graphic Design II 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ART 3130 - Web Graphics and Animation 3 cr
- ART 3131 - Professional Studio Arts I 3 cr
- ART 3221 - Graphic Design III 3 cr
- ART 4133 - Professional Studio Arts II 3 cr
- ART 4222 - Graphic Design IV 3 cr

And in the fourth year:

- ART 4850 - Portfolio Preparation and Evaluation 3 cr

(Credits required for the major: 48)

And complete a Minor (preferably in Studio Art or Communication)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Art: Photography (BA.ART.PHO)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## BA in Art with a Concentration in Photography

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And complete these Photography courses (27 cr):

complete these 7 courses:

- ART 1410 - Digital Photography I 3 cr
- ART 1610 - History of Photography 3 cr
- ART 2301 - Photography I 3 cr
- ART 2302 - Photography II 3 cr
- ART 2315 - Digital Photography II 3 cr
- ART 3303 - Photography III 3 cr
- ART 4304 - Photography IV 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ARH 3070 - Art Since 1945 3 cr
- ART 3130 - Web Graphics and Animation 3 cr

And in the third and fourth years take these courses (7 cr):

- ART 3131 - Professional Studio Arts I 3 cr
- ART 4133 - Professional Studio Arts II 3 cr
- ART 4920 - Senior Exhibition/Presentation 1 cr

(Credits required for the major: 46)

And complete a Minor (preferably in Studio Art or Communication)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Art: Studio Art (BA.ART.STA)**

Art is offered as a degree program leading to the Bachelor of Arts in Art. The Art Program at Castleton, while being a strongly humanistic course of study in which students develop skills in creative and critical thinking along with aesthetic and historical appreciation, is structured to provide art majors the opportunity to prepare for careers in Studio Art, Art History, Graphic Design, Art Education, or Photography.

Departmental trips to New York City galleries and museums bring students in contact with original historic and contemporary works of art. Many galleries and museums, such as the Hood Museum, the Williams College Museum, the Clark Museum, Mass MOCA, the Middlebury College Museum, and the Fleming Museum are within easy reach of the campus. The Art Students League, a campus club, sponsors visiting artists, film series, studio visits, and collaborative projects as well as trips.

Graduates of the art program have worked in graphic design studios and started graphic design and other art production businesses, worked in museums and galleries, entered Master of Fine Arts and other degree programs and, in conjunction with coursework in education, gained licensure and taught art in elementary and secondary schools in Vermont and other states.

Students graduating with a Bachelor of Arts in Art will be able to demonstrate:

1. An understanding of the process of making art.
2. An art historical perspective.
3. A personal context and direction in studio work.

## BA in Art with a Concentration in Studio Art

Complete the foundational Art courses by the second year (12 cr):

- ART 1020 - Introduction to Studio Arts 3 cr
- ART 1030 - Composition and Concepts 3 cr
- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And take the following Studio Art courses (24 cr)

- ARH 1020 - Critical Periods of Western Art 3 cr
- ART 1011 - Drawing I 3 cr
- ART 2211 - Painting I 3 cr
- ART 2251 - Sculpture I 3 cr
- ART 2311 - Printmaking I 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ART 3131 - Professional Studio Arts I 3 cr
- ART 4133 - Professional Studio Arts II 3 cr

And complete 3 courses in one of these disciplines (9 cr):

### Drawing

- ART 2012 - Drawing II 3 cr
- ART 3011 - Drawing III 3 cr
- ART 4011 - Drawing IV 3 cr



## Painting

- ART 2212 - Painting II 3 cr
- ART 3113 - Painting III 3 cr
- ART 4114 - Painting IV 3 cr

## Printmaking

- ART 2312 - Printmaking II 3 cr
- ART 3313 - Printmaking III 3 cr
- ART 4314 - Printmaking IV 3 cr

## Sculpture

- ART 2252 - Sculpture II 3 cr
- ART 3253 - Sculpture III 3 cr
- ART 4254 - Sculpture IV 3 cr

And in the fourth year:

- ART 4920 - Senior Exhibition/Presentation 1 cr

(Credits required for the major: 46)

And complete a Minor (preferably in Art History)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Athletic Training (BS.ATR)**

This program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE), which allows students to take the Board of Certification (BOC) Examination. After successful completion of the BOC examination, an individual will hold the credential of a certified athletic trainer (ATC). Students should make formal application to the Athletic Training (AT) Program through the Director of Athletic Training during the spring semester of their first year. The selection criteria are posted on the Castleton Athletic Training web site, and are also explained in AHS 1060 - Introduction to the Athletic Training Profession. Enrollment in this program is limited and merely completing the application process does not guarantee admission into the program. Once accepted into the program, students must complete six semesters of clinical field experiences working under the direct supervision of a preceptor at Castleton or an approved site. Any student may take courses within the program; however only students formally accepted into the AT Program may serve as athletic training students and participate in the clinical field experience.

Transfer students must follow the same application process and course sequence as traditional students and should meet with the Director of the AT Program early in the admissions process. The Director must approve the transfer of athletic training content courses. The Reapplication and Transfer Policy is available on the Castleton AT web site. Students must meet minimum health and technical standard requirements to be eligible to participate in the AT Program. The

health and technical standards can be found in the AT Program Application Materials, which are available on the Castleton AT web site. In addition, once accepted into the AT Program, students must meet minimum academic and clinical retention requirements. These requirements are outlined in the AT Program Student Handbook which is available in electronic form on the web site. The clinical field experience requires travel to off-campus sites that would necessitate the use of a vehicle and involve associated travel expenses. Additional program expenses include course fees on all clinical courses.

## **Athletic Training Education Mission Statement**

The mission of the CAATE- accredited AT Program at Castleton is to provide a comprehensive and progressive academic and clinical education experience for students. This experience at Castleton will prepare students to pass the Board of Certification (BOC) examination and achieve entry level employment in the field of Athletic Training. The AT Program will provide formal instruction and clinical training in the following content areas:

- **Evidence-Based Practice**
- **Clinical Examination and Diagnosis**
- **Therapeutic Interventions**
- **Psychosocial Strategies and Referral**
- **Prevention and Health Promotion**
- **Acute Care of Injury and Illness**
- **Health Care Administration**
- **Professional Development and Responsibility**

The AT Program accepts the overall mission of Castleton to provide the opportunity for intellectual and personal growth of students through excellence in teaching, close student-faculty interaction, numerous opportunities for out of classroom learning, and an active and supportive campus community. The AT Program strives to prepare students for meaningful careers, further academic pursuits, and productive citizenship.

## **Athletic Training Program Goals**

1. Students will critically apply content knowledge to real world situations and tasks.
2. Students will demonstrate professional responsibility and ethical behavior relevant to the field of athletic training.
3. Students will demonstrate competency and clinical proficiency in the five domains of athletic training.
4. Students will secure appropriate employment in Athletic Training or a related field, or gain admission to a graduate program of study.
5. The AT Program will provide high quality didactic and clinical instruction and learning opportunities to the students.

## **Athletic Training Program Objectives**

1. Students will demonstrate effective clinical application of athletic training skills learned in didactic coursework.
2. Students will demonstrate adherence to the core foundational behaviors and professional attributes of health care providers.
3. The annual 1st time pass rate for the BOC examination for Castleton students will be at least 10% above the national average.
4. Annual assessment of program graduates will reveal at least 90% of our graduates secure appropriate employment in AT or a related field, or gain admission to a graduate program of study.
5. The AT Program will continually assess didactic and clinical education instruction and opportunities.

## Complete the following courses (74 cr):

(Note that some courses also fulfill General Education requirements)

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 1060 - Introduction to the Athletic Training Profession 2 cr \*
- AHS 2151 - Evaluation and Management of Injuries to the Lower Extremity 3 cr \*
- AHS 2152 - Evaluation and Management of Injuries to the Upper Extremity 3 cr \*
- AHS 2160 - Anatomical Aspects of Sports Medicine 3 cr \*
- AHS 2170 - Strength Training Principles 2 cr
- AHS 2510 - Therapeutic Interventions I 3 cr \*
- AHS 2821 - Athletic Training Clinical I 2 cr
- AHS 2840 - Practicum in Athletic Training 2 cr
- AHS 3120 - Kinesiology 3 cr
- AHS 3140 - Administration of Athletic Training and Sports Medicine Programs 3 cr \*
- AHS 3150 - Physiology of Exercise 4 cr
- AHS 3510 - Therapeutic Interventions II 3 cr \*
- AHS 3811 - Evaluation and Management of Injuries to the Head, Neck, and Trunk 2 cr \*
- AHS 3813 - Pharmacology and General Medical Conditions 2 cr \*
- AHS 3822 - Athletic Training Clinical II 2 cr
- AHS 3823 - Athletic Training Clinical III 2 cr
- AHS 4160 - Clinical Exercise Testing and Prescription 4 cr
- AHS 4620 - Senior Seminar in Athletic Training 2 cr \*
- AHS 4824 - Athletic Training Clinical IV 2 cr
- AHS 4825 - Athletic Training Clinical V 2 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr \*
- PED 4020 - Applied Nutrition and Weight Control 3 cr \*
- PED 4910 - Senior Thesis 3 cr

**\*Courses requiring minimum grade of B-**

### Note:

Prior to graduation, students must show competency in swimming.

### The following courses are strongly recommended:

- BIO 3240 - Advanced Human Physiology 3 cr
- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- PHY 1051 - General Physics I 4 cr
- PHY 1052 - General Physics II 4 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Biology (BS.BIO)

*For further information about this major, contact the Biology Coordinator (Dr. Preston Garcia): [Preston.Garcia@Castleton.edu](mailto:Preston.Garcia@Castleton.edu)*

A comprehensive program in biology that prepares students for admission into graduate schools, admission into professional schools, a career in biology, or a career in secondary education. The program includes a capstone research project and presentation requirement that integrates students' knowledge across the biological and physical sciences and demonstrates their quantitative, intellectual, and communication skills.

Students completing the Bachelor of Science in Biology will demonstrate:

### Knowledge and Understanding of Biological Concepts

- Ability to define and explain the boundaries, foundational theoretical constructs, and practices in the major subdivisions of biology: Evolution and Diversity of Life, Ecology, Organismal Biology, Cellular and Molecular Biology, and Genetics.
- Fluency in the use of tools, technologies, and methods in the laboratory and natural environment.
- Ability to construct a summative project or paper that draws on current research, scholarship, and/or techniques in the field of biology.

### Intellectual Skills

- Ability to make systematic observations, construct hypotheses, and make predictions, design and experiment, interpret data, and form conclusions based on the data.
- Ability to locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Ability to communicate scientific information, both orally and in writing, according to accepted practices in the field of biology.
- Ability to use appropriate mathematical and statistical methods to evaluate and interpret biological data.
- Ability to integrate the physical sciences (chemistry and physics) with biology.

### Civic Learning

- A clear understanding of the issues and involvement of biology in modern society.

## Complete the following courses (54 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- BIO 2010 - Cell and Molecular Biology **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- BIO 3060 - Ecology **4 cr**  
**OR** BIO 3065 - Plant Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**
- BIO 4030 - Evolution **4 cr**
- BIO 4610 - Scientific Communication Capstone I **2 cr**
- BIO 4620 - Scientific Communication Capstone II **2 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)

- CHE 2111 - Organic Chemistry I 4 cr
- MAT 2036 - Biostatistics 4 cr
- PHY 1051 - General Physics I 4 cr  
OR PHY 2110 - Physics I 4 cr
- SCI 1230 - Pathways to Science 1 cr
- SCI 2100 - Science Colloquium 1 cr

*Note: MAT 1531 - Calculus I is recommended for students planning application to graduate school.*

## And complete 12 additional BIO credits at the 3000 level or higher

The 12 credits cannot include internships, independent studies, or teaching assistantships.

No more than 3 credits of BIO 4930 - Research Project will be counted toward the 12 credits of upper-level elective credits.

(Credits required for the major: 66 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Note on research

To perform the significant research activity necessary to complete the capstone project, students may elect to enroll in:

- 3-6 credits of BIO 4930 - Research Project under the supervision of a Castleton Biology faculty member,
- OR 3-6 credits of BIO 4810 - Internship in Biology,
- OR a summer undergraduate research experience at another institution (e.g. NSF REU).

## Pharmacy Degree (CU/ACPHS 3+4)

This major participates in the 3+4 program with Albany School of Pharmacy & Health Sciences, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS.

For details, see the Pharmacy Degree page.

## **Biology: Ecology and Evolutionary Biology (BS.BIO.EEB)**

*For further information about this major, contact the Biology Coordinator (Dr. Preston Garcia): [Preston.Garcia@Castleton.edu](mailto:Preston.Garcia@Castleton.edu)*

A comprehensive program in biology that prepares students for admission into graduate schools, admission into professional schools, a career in biology, or a career in secondary education. The program includes a capstone research project and presentation requirement that integrates students' knowledge across the biological and physical sciences and demonstrates their quantitative, intellectual, and communication skills.

Students completing the Bachelor of Science in Biology will demonstrate:

#### Knowledge and Understanding of Biological Concepts

- Ability to define and explain the boundaries, foundational theoretical constructs, and practices in the major subdivisions of biology: Evolution and Diversity of Life, Ecology, Organismal Biology, Cellular and Molecular Biology, and Genetics.
- Fluency in the use of tools, technologies, and methods in the laboratory and natural environment.
- Ability to construct a summative project or paper that draws on current research, scholarship, and/or techniques in the field of biology.

#### Intellectual Skills

- Ability to make systematic observations, construct hypotheses, and make predictions, design and experiment, interpret data, and form conclusions based on the data.
- Ability to locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Ability to communicate scientific information, both orally and in writing, according to accepted practices in the field of biology.
- Ability to use appropriate mathematical and statistical methods to evaluate and interpret biological data.
- Ability to integrate the physical sciences (chemistry and physics) with biology.

#### Civic Learning

- A clear understanding of the issues and involvement of biology in modern society.

## BS in Biology with a Concentration in Ecology and Evolutionary Biology

The EEB Concentration is designed for students interested in admission to graduate school programs in ecology, evolution, or organismal biology.

### Complete the following courses required of all BIO majors (54 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- BIO 2010 - Cell and Molecular Biology **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- BIO 3060 - Ecology **4 cr**  
**OR** BIO 3065 - Plant Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**  
**OR** BIO 4035 - Advanced Molecular Biology
- BIO 4030 - Evolution **4 cr**
- BIO 4610 - Scientific Communication Capstone I **2 cr**
- BIO 4620 - Scientific Communication Capstone II **2 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
- CHE 2111 - Organic Chemistry I **4 cr**
- MAT 2036 - Biostatistics **4 cr**
- PHY 1051 - General Physics I **4 cr**  
**OR** PHY 2110 - Physics I **4 cr**

- SCI 1230 - Pathways to Science 1 cr
- SCI 2100 - Science Colloquium 1 cr

*Note: MAT 1531 - Calculus I is recommended for students planning application to graduate school.*

And complete 4 of these courses for the Concentration in EEB (14-16 cr):

- BIO 3030 - Ecology of Water 3 cr
- BIO 3065 - Plant Ecology 4 cr \*
- BIO 3070 - Genetics 4 cr \*
- BIO 3160 - Animal Behavior 4 cr
- BIO 3210 - Developmental Biology 4 cr
- BIO 3350 - Natural History of the Mojave Desert 4 cr
- BIO 4035 - Advanced Molecular Biology 4 cr
- BIO 4250 - Ecotoxicology 3 cr

\* may only count for elective OR core biology credit

(Credits required for the major: 68-70 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### Note on research

To perform the significant research activity necessary to complete the capstone project (BIO 4620), students may elect to enroll in:

- 3-6 credits of BIO 4930 - Research Project under the supervision of a Castleton Biology faculty member,
- OR 3-6 credits of BIO 4810 - Internship in Biology,
- OR a summer undergraduate research experience at another institution (e.g. NSF REU).

## **Biology: Molecular Biology and Biomedicine (BS.BIO.MBB)**

*For further information about this major, contact the Biology Coordinator (Dr. Preston Garcia): [Preston.Garcia@Castleton.edu](mailto:Preston.Garcia@Castleton.edu)*

A comprehensive program in biology that prepares students for admission into graduate schools, admission into professional schools, a career in biology, or a career in secondary education. The program includes a capstone research project and presentation requirement that integrates students' knowledge across the biological and physical sciences and demonstrates their quantitative, intellectual, and communication skills.

Students completing the Bachelor of Science in Biology will demonstrate:

Knowledge and Understanding of Biological Concepts

- Ability to define and explain the boundaries, foundational theoretical constructs, and practices in the major subdivisions of biology: Evolution and Diversity of Life, Ecology, Organismal Biology, Cellular and Molecular Biology, and Genetics.
- Fluency in the use of tools, technologies, and methods in the laboratory and natural environment.
- Ability to construct a summative project or paper that draws on current research, scholarship, and/or techniques in the field of biology.

#### Intellectual Skills

- Ability to make systematic observations, construct hypotheses, and make predictions, design and experiment, interpret data, and form conclusions based on the data.
- Ability to locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Ability to communicate scientific information, both orally and in writing, according to accepted practices in the field of biology.
- Ability to use appropriate mathematical and statistical methods to evaluate and interpret biological data.
- Ability to integrate the physical sciences (chemistry and physics) with biology.

#### Civic Learning

- A clear understanding of the issues and involvement of biology in modern society.

## BS in Biology with a Concentration in Molecular Biology and Biomedicine

The MBB Concentration is specially designed for students interested in careers in medicine (pre-medical, -dental, or -veterinary school), pharmaceutical sciences, or biomedical research.

### Complete the following courses required of all BIO majors (54 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- BIO 2010 - Cell and Molecular Biology **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- BIO 3060 - Ecology **4 cr**  
**OR** BIO 3065 - Plant Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**
- BIO 4030 - Evolution **4 cr**
- BIO 4610 - Scientific Communication Capstone I **2 cr**
- BIO 4620 - Scientific Communication Capstone II **2 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
- CHE 2111 - Organic Chemistry I **4 cr**
- MAT 2036 - Biostatistics **4 cr**
- PHY 1051 - General Physics I **4 cr**  
**OR** PHY 2110 - Physics I **4 cr**
- SCI 1230 - Pathways to Science **1 cr**
- SCI 2100 - Science Colloquium **1 cr**

*Note: MAT 1531 - Calculus I is recommended for students planning application to graduate school.*



And complete these courses for the Concentration in MBB (14-16 cr):

complete both of these courses:

- CHE 3011 - Biochemistry with Discussion 4 cr
- PHY 2210 - Physics II 4 cr

and complete two of these courses:

- BIO 3090 - Virology 3 cr
- BIO 3151 - Physiology of Exercise 4 cr
- BIO 3210 - Developmental Biology 4 cr
- BIO 3240 - Advanced Human Physiology 3 cr
- BIO 4360 - Immunology 3 cr
- BIO 4035 - Advanced Molecular Biology 4 cr

(Credits required for the major: 68-70 cr)

And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

Students interested in admission to medical school should choose one or more of the following as part of their Gen Ed requirement:

- ANT 1010 - Introduction to Cultural Anthropology
- PHI 3020 - Medical Ethics
- PSY 1012 - Introduction to Psychological Science
- SOC 1010 - Introduction to Sociology

**Note on research**

To perform the significant research activity necessary to complete the capstone project (BIO 4620), students may elect to enroll in:

- 3-6 credits of BIO 4930 - Research Project under the supervision of a Castleton Biology faculty member,
- OR 3-6 credits of BIO 4810 - Internship in Biology,
- OR a summer undergraduate research experience at another institution (e.g. NSF REU).

**Pharmacy Degree (CU/ACPHS 3+4)**

This major participates in the 3+4 program with Albany School of Pharmacy & Health Sciences, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS.

For details, see the Pharmacy Degree page.

**Business Administration: Accounting (BS.BUS.ACC)**

Bachelor of Science in Business Administration

The Department of Business Administration strives to provide an atmosphere that is conducive to ethical behavior and intellectual growth. The department core is designed to provide a foundation of general business knowledge on which individual programs within the department can build. Internships can be available for qualified students. Students successfully completing a Business Administration major will be able to compete effectively for professional employment, understand the importance of professional behavior, possess a strong work ethic, and be prepared to pursue lifelong learning including graduate studies and beyond.

Students are encouraged to use their selection of frames of reference courses and other free elective courses to broaden their experiences and exposure to other ways of thinking and to other disciplines. Free elective course work can be from any discipline and can be, but need not be, used to fulfill requirements for a minor.

Students completing a Bachelor of Science in Business Administration will be proficient in:

- Defining, analyzing, and solving problems in both an individual and group environment.
- Recognizing and using effective verbal and written communication skills.
- Using computers and other technologies generally used in an entry-level business environment.

## Concentration in Accounting

Students completing a BS.BUS with a concentration in Accounting are prepared to pursue careers as corporate, not-for-profit, or small business accountants or to continue their studies at the graduate level. With the addition of the Master of Science in Accounting degree, students are prepared for careers in public accounting and advancement in private accounting. A career as a professional accountant requires a commitment to lifelong learning as the profession is continually evolving. Therefore, pre-entry education should lay the base on which lifelong learning can be built. This base has three components: skills, knowledge, and professional orientation.

Students completing a BS.BUS.ACC will demonstrate technical competency and professional knowledge in accounting theory, auditing, and individual income taxation.

## Complete the following courses:

### 1000 level

- BUS 1270 - Principles of Computer-Based Information Systems 3 cr

### 2000 level

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2030 - Case Studies in Business Administration 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- BUS 2370 - Business Communications 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr

### 3000 level

- ACC 3010 - Accounting for Management Decisions 3 cr
- ACC 3211 - Corporate Financial Reporting I 3 cr
- ACC 3212 - Corporate Financial Reporting II 3 cr
- BUS 3131 - Business Law I 3 cr
- BUS 3230 - Financial Management 3 cr

### 4000 level

- ACC 4010 - Accounting Information Systems 3 cr
- ACC 4041 - Income Tax I 3 cr

- ACC 4041L - Individual Tax Preparation 1 cr
- ACC 4050 - Auditing and Assurance Services 3 cr
- ACC 4213 - Corporate Financial Reporting III 3 cr
- BUS 4080 - Business Strategy and Policy Development 3 cr
- BUS 4110 - Operations Management 3 cr
- ~~OR~~ BUS 4130 - Quantitative Business Decisions 3 cr

(Credits required for the major: 58 cr)

And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

It is **strongly recommended** that all students majoring in Business Administration complete either MAT 2021 - Statistics I and MAT 2022 - Statistics II or MAT 2021 - Statistics I and MAT 1531 - Calculus I for the scientific and mathematical frame of reference to be adequately prepared for upper level business study.

## Masters Degree

Castleton offers a one year Master of Science degree for students seeking licensure as a certified public accountant or continued career advancement in either corporate, not-for-profit, or government organizations. Castleton's graduate catalog contains a more thorough discussion of the degree including course descriptions. Requirements for initial CPA licensure vary by state; students desiring initial licensure in states other than Vermont should review the requirements of that state.

## Dual Concentration

A student may concentrate in two of the following areas of expertise within the Department of Business Administration: ACC, MGT, and MKT. The student must complete all required Business Core courses, all required courses for both concentrations, and two Business electives with an ACC, BUS, or CIS suffix. (Business electives are courses not required by the major or concentration but add depth and richness to the student's learning experience.)

## **Business Administration: Management (BS.BUS.MGT)**

### Bachelor of Science in Business Administration

The Department of Business Administration strives to provide an atmosphere that is conducive to ethical behavior and intellectual growth. The department core is designed to provide a foundation of general business knowledge on which individual programs within the department can build. Internships can be available for qualified students. Students successfully completing a Business Administration major will be able to compete effectively for professional employment, understand the importance of professional behavior, possess a strong work ethic, and be prepared to pursue lifelong learning including graduate studies and beyond.

Students are encouraged to use their selection of frames of reference courses and other free elective courses to broaden their experiences and exposure to other ways of thinking and to other disciplines. Free elective course work can be from any discipline and can be, but need not be, used to fulfill requirements for a minor.

Students completing a Bachelor of Science in Business Administration will be proficient in:

- Defining, analyzing, and solving problems in both an individual and group environment.
- Recognizing and using effective verbal and written communication skills.
- Using computers and other technologies generally used in an entry-level business environment.

## Concentration in Management

Students completing a BS.BUS with a concentration in Management will demonstrate the ability to analyze a company's situation, identify key issues, synthesize the data, and make recommendations for implementing viable solutions.

### Complete the following courses (48 cr):

- 1000 level
  - BUS 1270 - Principles of Computer-Based Information Systems 3 cr
  - 2000 level
  - ACC 2101 - Accounting I 3 cr
  - BUS 2020 - Principles of Management 3 cr
  - BUS 2030 - Case Studies in Business Administration 3 cr
  - BUS 2230 - Principles of Marketing 3 cr
  - BUS 2370 - Business Communications 3 cr
  - ECO 2040 - Macroeconomics in a Global Context 3 cr
  - ECO 2050 - Microeconomics in a Global Context 3 cr
  - 3000 level
  - ACC 3010 - Accounting for Management Decisions 3 cr
  - BUS 3131 - Business Law I 3 cr
  - BUS 3140 - Entrepreneurship and Small Business Management 3 cr
  - **-OR-** BUS 3280 - Human Resources Management and Applications 3 cr
  - BUS 3230 - Financial Management 3 cr
  - BUS 3250 - Organizational Development and Behavior 3 cr
  - 4000 level
  - BUS 4080 - Business Strategy and Policy Development 3 cr
  - BUS 4110 - Operations Management 3 cr
  - BUS 4130 - Quantitative Business Decisions 3 cr
- (Note that MAT 2021 and MAT 2022 are prerequisites to BUS 4110 and 4130)*

### Plus 9 credits of electives

- Electives may be chosen from ACC, BUS, or CIS prefixed course at the 2000-level or higher.
- Only 6 credits of ACC, BUS, or CIS internships may be used to fulfill the electives requirement.

(Credits required for the major: 57 cr)

And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements

## Dual Concentration

A student may concentrate in two of the following areas of expertise within the Department of Business Administration: ACC, MGT, and MKT. The student must complete all required Business Core courses, all required courses for both concentrations, and two Business electives with an ACC, BUS, or CIS suffix. (Business electives are courses not required by the major or concentration but add depth and richness to the student's learning experience.)

## **Business Administration: Marketing (BS.BUS.MKT)**

### Bachelor of Science in Business Administration

The Department of Business Administration strives to provide an atmosphere that is conducive to ethical behavior and intellectual growth. The department core is designed to provide a foundation of general business knowledge on which individual programs within the department can build. Internships can be available for qualified students. Students successfully completing a Business Administration major will be able to compete effectively for professional employment, understand the importance of professional behavior, possess a strong work ethic, and be prepared to pursue lifelong learning including graduate studies and beyond.

Students are encouraged to use their selection of frames of reference courses and other free elective courses to broaden their experiences and exposure to other ways of thinking and to other disciplines. Free elective course work can be from any discipline and can be, but need not be, used to fulfill requirements for a minor.

Students completing a Bachelor of Science in Business Administration will be proficient in:

- Defining, analyzing, and solving problems in both an individual and group environment.
- Recognizing and using effective verbal and written communication skills.
- Using computers and other technologies generally used in an entry-level business environment.

### Concentration in Marketing

Marketing is a critical component to the health and growth of any organization. It is more important than ever in a time of turbulent change and increased competition, both domestically and internationally. Effective, measurable marketing will continue to be key to corporate survival in the 21st century.

The Marketing concentration offers a wide range of courses, which cover basic and advanced concepts as well as marketing strategy. Students learn to make strategic and tactical decisions regarding the product, pricing, promotion, and distribution elements of the marketing mix. Courses are taught by expert, qualified faculty with significant “real-world” marketing experience.

Students completing a BS.BUS with a concentration in Marketing will demonstrate an understanding of the role of marketing and will possess the ability to develop, analyze, and evaluate strategic, tactical and operational marketing plans.

### Complete the following courses (48 cr):

- 1000 level
  - BUS 1270 - Principles of Computer-Based Information Systems 3 cr
- 2000 level

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2030 - Case Studies in Business Administration 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- BUS 2370 - Business Communications 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr  
3000 level
- ACC 3010 - Accounting for Management Decisions 3 cr
- BUS 3060 - Consumer Behavior 3 cr
- BUS 3131 - Business Law I 3 cr
- BUS 3210 - Advertising 3 cr
- BUS 3230 - Financial Management 3 cr  
4000 level
- BUS 4030 - Marketing Research 3 cr (*Note that MAT 2022 is a prerequisite to BUS 4030, and MAT 2021 is a prerequisite to MAT 2022*)
- BUS 4040 - Marketing Strategies 3 cr
- BUS 4080 - Business Strategy and Policy Development 3 cr

### Plus 9 credits of electives

- Electives may be chosen from ACC, BUS, or CIS prefixed course at the 2000-level or higher.
- Only 6 credits of ACC, BUS, or CIS internships may be used to fulfill the electives requirement.

(Credits required for the major: 57 cr)

### And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

### Dual Concentration

A student may concentrate in two of the following areas of expertise within the Department of Business Administration: ACC, MGT, and MKT. The student must complete all required Business Core courses, all required courses for both concentrations, and two Business electives with an ACC, BUS, or CIS suffix. (Business electives are courses not required by the major or concentration but add depth and richness to the student's learning experience.)

## Career and Technical Education (BAS.CTE)

**We are no longer accepting applications for this program.**

**We will close out the program when the currently matriculated students complete their degrees.**

This Bachelor's degree completion program is offered to candidates who have met the entrance requirements below. Prospective candidates working at any of Vermont's Career and Technical Education Centers can work with the Outreach and Professional Development Coordinator with the Vermont Career and Technical Education Director's Association and the Director of Career and Technical Teacher Education Program at Vermont Technical College to establish their readiness for the program.

Upon matriculation, students will (a) complete Castleton's General Education requirements, (b) take the courses listed below, which are designed to address critical areas of curriculum, instruction, assessment, and instructional pedagogy, and (c) culminate their work with a 6-credit Capstone project designed to allow them to exhibit their knowledge of the program's course content and their ability to apply the skills gained over the course of their three-year CTE and subsequent Castleton experiences.

Students must complete a minimum of 30 credits at Castleton and 122 credits overall to earn a bachelor's degree.

In keeping with the established standards of teacher preparation at Castleton University, students completing the Bachelor of Applied Science in Career and Technical Education will demonstrate their:

- appreciation for the importance of diverse populations;
- adaptation to emerging social, economic, and demographic patterns;
- skill in the use of technological tools to promote teaching and learning;
- use of data to make informed pedagogical decisions; and
- skill in critical thinking.
- knowledge and skills in the content area of his or her endorsement(s);
- understanding of how individuals learn and grow;
- recognition of multiple influences on students and schools: such as cultural, social, political, and economic factors;
- ability to implement, adapt, and revise, and, when necessary, create curriculum based on standards, knowledge of subject matter, and individual student needs and interests.
- ability to create a classroom climate that encourages respect for self and others;
- continued professional growth through a variety of approaches to improve professional practice; and
- ability to integrate current technologies in instruction, assessment, and evaluation.

## Entrance Requirements

1. Hold approved associates degree in occupational specialty field or complete a minimum of 60 credits through workshops, coursework and APL.
2. Complete the 24-credit CTE Teacher Prep Program earning the required ROPA approved credits.
  - EDU 2051, 2052, 2061, and 2062- Teaching Methods I and II – 12 cr
  - EDU 2115 -Issues and Trends in Technical Education- 3 cr
  - EDU 2135 -Instruction for Students with Special Needs- 3 cr
  - EDU 2710- Capstone – 1 cr
  - EDU 2802- Education Externship – 1 cr
  - EDU 3550- Technology in the Classroom – 1 cr
  - PSY 2110-Educational Psychology- 3 cr
3. Pass the state-approved teacher preparation exam as part of the Teacher Prep Program at CTE.
4. Candidates must be recommended for Level I license when the Teacher Prep Program is completed and be offered a contract for the next school year to continue in the program at Castleton.
5. Complete the application process for the Career and Technical Education completion program at Castleton.

To earn the degree at Castleton:

Complete the following courses

- EDU 4510 - Assessment of and for Learning in Career and Technical Education Classrooms **3 cr**
- EDU 4520 - Curriculum Management in Career and Technical Education **3 cr**
- EDU 4530 - Learning Styles and Diversity in Career and Technical Education Classrooms **3 cr**
- EDU 4540 - Instructional Practices and Tiered Interventions in Career and Technical Education **3 cr**
- EDU 4550 - Technology in Career and Technical Education **3 cr**
- EDU 4590 - Capstone Project **6 cr**

## Remaining credits

Students must complete a minimum of 30 credits at Castleton and 122 credits overall. Remaining credits may be earned by completion of unmet General Education requirements (see below) and/or completing these Education courses:

- EDU 4871 Directed Student Teaching I **6-9 cr** (concurrent prerequisite of EDU 4720 is waived based on previous experience)  
and/or
- EDU 4872 Directed Student Teaching II **6-9 cr** (concurrent prerequisite of EDU 4720 is waived based on previous experience)

## Completing the university's Gen Ed requirements

Click [here](#) to review the Gen Ed requirements.

For those wishing to enter the Career and Technical Education (BAS.CTE) program, the General Education requirements can be met in a variety of ways:

- A number of the General Education requirements may have been satisfied if the prospective student has earned an associates degree from a Vermont State College.
- Some General Education requirements may have been satisfied through coursework completed as a part of the first 60 credits earned (workshops, coursework, Assessment of Prior Learning).
- Prospective students who have met all entrance requirements for this degree program can take the Castleton courses in CTE and courses designed to meet the remaining General Education requirements simultaneously.

## Chemistry (BS.CHE)

Chemistry is the study of the properties of matter and the ways in which matter interacts, combines and changes. It is inherently interdisciplinary in nature, with connections to the life sciences, geology, physics and mathematics.

The Chemistry major consists of a set of core chemistry, physics, and mathematics courses plus a flexible selection of upper level courses. This allows students to explore topics of interest and prepare for a wide range of graduate programs, careers and professions. All Chemistry majors will develop strong laboratory skills and have experience with state-of-the-art scientific instrumentation.

Students completing the Bachelor of Science in Chemistry will demonstrate:

- Proficiency in laboratory skills related to safety, use of equipment and instrumentation, and solution preparation.
- Ability to develop a systematic method of analysis in order to answer a scientific question.



- Understanding of basic chemical principles of chemical structure, bonding, reactivity, equilibrium, thermodynamics, and kinetics.
- Understanding of qualitative and quantitative instrumentation (tools) used by the chemist to characterize samples of all states of matter.
- Ability to communicate scientific findings (understandings) both orally and in the written form.
- Ability to search the current Chemistry literature of peer reviewed journals to extract information of interest.
- Understanding of Quantum Mechanics and its relationship to energy of bonds, molecules, and reactions.

If desired, students may choose a Biochemistry or Environmental Chemistry concentration:

- The concentration in Biochemistry prepares students for careers and advanced studies in biology, chemistry, pharmacology, and medicine.
- The concentration in Environmental Chemistry prepares students for careers and advanced studies in analytical chemistry, environmental remediation and engineering, laboratory positions, and other environmentally relevant fields. This concentration provides a more theoretical background than the Environmental Science major.

(The BS in Chemistry cannot be combined with a BS in Biology or BS in Environmental Science.)

## Complete the following courses (53 cr):

- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
  - CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
  - CHE 2111 - Organic Chemistry I **4 cr**
  - CHE 2112 - Organic Chemistry II **4 cr**
  - CHE 3020 - Analytical Chemistry **4 cr**
  - CHE 3031 - Physical Chemistry I **4 cr**
  - CHE 3032 - Physical Chemistry II **4 cr**
  - CHE 3150 - Inorganic Chemistry **3 cr**
  - MAT 1531 - Calculus I **4 cr**
  - MAT 2532 - Calculus II **4 cr**
  - PHY 2110 - Physics I **4 cr**
  - PHY 2210 - Physics II **4 cr**
  - SCI 1230 - Pathways to Science **1 cr** (should be taken during the freshman year)
  - SCI 2100 - Science Colloquium **1 cr** (mandatory during sophomore year; recommended during junior and senior years; however, only 1 credit counts toward the major)
- And take ONE of the following:
- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
  - MAT 2036 - Biostatistics **4 cr**

## And complete 9 additional credits at the 3000 level or higher

The 9 credits must have CHE prefixes. Up to 3 credits may be earned through CHE 4920 - Research in Chemistry

(Total credits required: 62 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Chemistry: Biochemistry (BS.CHE.BCH)

Chemistry is the study of the properties of matter and the ways in which matter interacts, combines and changes. It is inherently interdisciplinary in nature, with connections to the life sciences, geology, physics and mathematics.

The Chemistry major consists of a set of core chemistry, physics, and mathematics courses plus a flexible selection of upper level courses. This allows students to explore topics of interest and prepare for a wide range of graduate programs, careers and professions. All Chemistry majors will develop strong laboratory skills and have experience with state-of-the-art scientific instrumentation.

Students completing the Bachelor of Science in Chemistry will demonstrate:

- Proficiency in laboratory skills related to safety, use of equipment and instrumentation, and solution preparation.
- Ability to develop a systematic method of analysis in order to answer a scientific question.
- Understanding of basic chemical principles of chemical structure, bonding, reactivity, equilibrium, thermodynamics, and kinetics.
- Understanding of qualitative and quantitative instrumentation (tools) used by the chemist to characterize samples of all states of matter.
- Ability to communicate scientific findings (understandings) both orally and in the written form.
- Ability to search the current Chemistry literature of peer reviewed journals to extract information of interest.
- Understanding of Quantum Mechanics and its relationship to energy of bonds, molecules, and reactions.

(The BS in Chemistry cannot be combined with a BS in Biology or BS in Environmental Science.)

### BS in Chemistry with a Concentration in Biochemistry

The Biochemistry concentration prepares students for careers and advanced studies in biology, chemistry, pharmacology, and medicine.

#### Complete the following courses (66 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- CHE 1051 - Chemistry I **4 cr** (grade of C or higher required)
- BIO 4035 - Advanced Molecular Biology **4 cr**
- CHE 1052 - Chemistry II **4 cr** (grade of C or higher required)
- CHE 2111 - Organic Chemistry I **4 cr**
- CHE 2112 - Organic Chemistry II **4 cr**
- CHE 3011 - Biochemistry with Discussion **4 cr**
- CHE 3016 - Enzyme Kinetics Laboratory **1 cr**
- CHE 3020 - Analytical Chemistry **4 cr**
- CHE 3031 - Physical Chemistry I **4 cr**
- CHE 3032 - Physical Chemistry II **4 cr**
- CHE 3150 - Inorganic Chemistry **3 cr**
- MAT 1531 - Calculus I **4 cr**
- MAT 2532 - Calculus II **4 cr**
- PHY 2110 - Physics I **4 cr**
- PHY 2210 - Physics II **4 cr**

- SCI 1230 - Pathways to Science **1 cr** (should be taken during the freshman year)
- SCI 2100 - Science Colloquium **1 cr** (mandatory during sophomore year; recommended during junior and senior years; however, only 1 credit counts toward the major)

And complete at least 9 credits from the following:

- BIO 3013 - Biogeochemistry **4 cr**
- CHE 4020 - Advanced Organic Chemistry **3 cr**
- CHE 4030 - Chemical Biology **3**
- CHE 4920 - Research in Chemistry **2-6 cr** (no more than 3 credits may count toward the major)

(Total credits required: 75 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Chemistry: Environmental Chemistry (BS.CHE.ENC)**

Chemistry is the study of the properties of matter and the ways in which matter interacts, combines and changes. It is inherently interdisciplinary in nature, with connections to the life sciences, geology, physics and mathematics.

The Chemistry major consists of a set of core chemistry, physics, and mathematics courses plus a flexible selection of upper level courses. This allows students to explore topics of interest and prepare for a wide range of graduate programs, careers and professions. All Chemistry majors will develop strong laboratory skills and have experience with state-of-the-art scientific instrumentation.

Students completing the Bachelor of Science in Chemistry will demonstrate:

- Proficiency in laboratory skills related to safety, use of equipment and instrumentation, and solution preparation.
- Ability to develop a systematic method of analysis in order to answer a scientific question.
- Understanding of basic chemical principles of chemical structure, bonding, reactivity, equilibrium, thermodynamics, and kinetics.
- Understanding of qualitative and quantitative instrumentation (tools) used by the chemist to characterize samples of all states of matter.
- Ability to communicate scientific findings (understandings) both orally and in the written form.
- Ability to search the current Chemistry literature of peer reviewed journals to extract information of interest.
- Understanding of Quantum Mechanics and its relationship to energy of bonds, molecules, and reactions.

(The BS in Chemistry cannot be combined with a BS in Biology or BS in Environmental Science.)

## **BS in Chemistry with a Concentration in Environmental Chemistry**

The Environmental Chemistry concentration prepares students for careers and advanced studies in analytical chemistry, environmental remediation and engineering, laboratory positions, and other environmentally relevant fields. This concentration provides a more theoretical background than the Environmental Science major.

Complete the following courses (63 cr):

- BIO 1121 - Biology I 4 cr (grade of C or higher required)
- BIO 2125 - Fundamentals of Microbiology 4 cr
- BIO 3013 - Biogeochemistry 4 cr
- CHE 1051 - Chemistry I 4 cr (grade of C or higher required)
- CHE 1052 - Chemistry II 4 cr (grade of C or higher required)
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 2112 - Organic Chemistry II 4 cr
- CHE 3020 - Analytical Chemistry 4 cr
- CHE 3030 - Aqueous Geochemistry 3 cr
- CHE 3031 - Physical Chemistry I 4 cr
- CHE 3032 - Physical Chemistry II 4 cr
- CHE 3150 - Inorganic Chemistry 3 cr
- CHE 4010 - Environmental Kinetics and Chemical Fate 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr
- PHY 2110 - Physics I 4 cr
- PHY 2210 - Physics II 4 cr
- SCI 1230 - Pathways to Science 1 cr (should be taken during the freshman year)
- SCI 2100 - Science Colloquium 1 cr (mandatory during sophomore year; recommended during junior and senior years; however, only 1 credit counts toward the major)

And complete at least 6 credits from the following:

- CHE 3011 - Biochemistry with Discussion 4 cr
- CHE 4020 - Advanced Organic Chemistry 3 cr
- CHE 4030 - Chemical Biology 3
- CHE 4920 - Research in Chemistry 2-6 cr (no more than 3 credits may count toward the major)

(Total credits required: 69-70 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Communication: Concentration by Contract (BS.COM.CNT)**

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- as a force in shaping social, economic, and political structure;
- from ethical and ideological perspectives;
- from global and national perspectives.

Graduates will also be able to:

- research and analyze material;
- write well;
- competently use chosen technological media;
- produce material of high quality in at least one medium;
- work collaboratively;

- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration by Contract

The concentration by contract is designed to provide the student with a coherent body of knowledge and skills that cut across traditional intra- and interdisciplinary boundaries. Examples of such a concentration include Popular Culture Studies or American Studies, Arts Administration, and Photography.

Normally in their sophomore year, and always by the end of their junior year, Communication concentrators by contract, in conjunction with their advisors, will develop a proposal for their course of study. The proposal will be reviewed by the entire department and academic dean's office.

### Complete the following courses (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

and 15 additional credits of COM courses (15 cr)

plus 15 additional credits in contracted courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr  
and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Communication: Digital Media (BS.COM.DGM)

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Digital Media

Complete these courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

and complete these courses for the Concentration in Digital Media (15 cr):

complete these three courses:

- COM 2220 - Web Content and Site Development 3 cr

- COM 3120 - Multimedia 3 cr
- COM 4010 - The Future of Communication 3 cr  
and complete two of these courses:
- ART 3130 - Web Graphics and Animation 3 cr
- COM 1410 - Digital Photography I 3 cr OR ART 1410 - Digital Photography I 3 cr
- COM 2221 - Graphic Design I 3 cr OR ART 2221 - Graphic Design I 3 cr
- COM 2222 - Graphic Design II 3 cr OR ART 2222 - Graphic Design II 3 cr
- COM 2510 - Graphic Arts Production 3 cr OR ART 2510 - Graphic Arts Production 3 cr

plus 15 additional credits of COM courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr  
and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Law Degree (CU/VLS 3+2)**

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

**Communication: Journalism (BS.COM.JOU)**

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;

- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Journalism

Complete the following courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

and complete these courses for the Concentration in Journalism (15 cr):

- COM 2230 - News Gathering and Writing 3 cr
- COM 2270 - Newspaper Editing 3 cr
- COM 3010 - News Media Ethics and Law 3 cr
- COM 3060 - Feature Writing 3 cr
- COM 3780 - Special Topics in Journalism 3 cr

plus take 15 additional credits of COM courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr
- and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)



## Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Communication: Media Studies (BS.COM.MST)

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Media Studies

Complete the following courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr

- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

And complete these courses for the Concentration in Media Studies (15 cr):

complete all of these

- COM 1050 - Introduction to Popular Culture 3 cr
- COM 1150 - Introduction to Cinema Studies 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society, whichever has not been taken to fulfill the above section required of all COM majors

and two of these courses:

- COM 2160 - International Communication 3 cr
- COM 2330 - International Cinema 3 cr
- COM 2730 - Special Topics in Cinema Studies 3 cr
- COM 3050 - Media, Social Activism and Political Action 3 cr
- COM 3760 - Special Topics in Media Studies 3 cr
- COM 4010 - The Future of Communication 3 cr

Plus take 15 additional credits of COM courses (15 cr)

And in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr
- and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 cr required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Communication: Public Relations (BS.COM.PRL)

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Public Relations

Complete these courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society 3 cr

and complete these courses for the Concentration in Public Relations (15 cr):

- COM 2150 - Public Relations 3 cr
- COM 2212 - Video Workshop II: News and Feature Production 3 cr
- COM 2220 - Web Content and Site Development 3 cr
- COM 2230 - News Gathering and Writing 3 cr
- COM 3050 - Media, Social Activism and Political Action 3 cr

**OR** COM 3750 - Special Topics in Public Relations **3 cr**

plus take 15 additional credits of COM courses (15 cr)

and in the senior year (6 cr):

- COM 4510 - Communication Portfolio **3 cr**  
and one of the following courses:
- COM 4720 - Seminar in Communication **3 cr**
- COM 4810 - Internship in Communication **1-12 cr** [at least 3 cr required]
- COM 4820 - Practicum in Communication **1-3 cr**

(Credits required for the major: 48)

Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Law Degree (CU/VLS 3+2)**

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## **Communication: Video/Film Production (BS.COM.VFP)**

Bachelor of Science graduates in Communication will be aware of the nature of the communication enterprise:

- a. as a force in shaping social, economic, and political structure;
- b. from ethical and ideological perspectives;
- c. from global and national perspectives.

Graduates will also be able to:

- a. research and analyze material;
- b. write well;
- c. competently use chosen technological media;
- d. produce material of high quality in at least one medium;
- e. work collaboratively;
- f. make sound choices in the design and meaning of their messages and productions.

Finally, graduates will have:

- a. the ability to think independently and critically;
- b. the flexibility necessary to adapt to rapid changes in the field;
- c. an understanding of the need to balance and evaluate personal, organizational, and public concerns in the process of creative production.

## BS in Communication with a Concentration in Video/Film Production

Complete the following courses required of all COM majors (12 cr):

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- **OR** COM 2260 - Media and Society

And complete these courses for the Concentration in Video/Film Production (15 cr):

complete these three courses:

- COM 2212 - Video Workshop II: News and Feature Production 3 cr
- COM 3020 - Documentary Workshop 3 cr
- COM 4020 - Screen Drama Workshop 3 cr

and two of these courses:

- COM 1150 - Introduction to Cinema Studies 3 cr
- COM 2120 - Script Workshop I 3 cr
- COM 2130 - Experimental Cinema and Video 3 cr
- COM 2210 - Broadcast Performance 3 cr
- COM 2221 - Graphic Design I 3 cr
- COM 2240 - Video Magazine Workshop 3 cr
- COM 3120 - Multimedia 3 cr
- COM 3790 - Special Topics in Media Production 3 cr

Plus take 15 additional credits of COM courses (15 cr)

And in the senior year (6 cr):

- COM 4510 - Communication Portfolio 3 cr
- and one of the following courses:
- COM 4720 - Seminar in Communication 3 cr
- COM 4810 - Internship in Communication 1-12 cr [at least 3 credits required]
- COM 4850 - Senior Project in Communication 3 cr

(Credits required for the major: 48)

## Also complete a Minor, a Civic Engagement Certificate, or related area of focused study

Complete an 18 or more credit Minor or related area of focused study approved by the faculty advisor, or a Civic Engagement Certificate. The Minor or area of focused study may not be in Communication, nor may it include any courses the student applies to the Major requirements. Should the Major and Minor require the same course, a relevant substitution is required in one or the other.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Computer Information Systems/Business (BS.CIS.BUS)**

The purpose of the program is to prepare students for employment in the field of Information Systems. Students will have a broad-based business perspective, a solid foundation in critical thinking and analysis, the ability to design and create an information technology solution, and strong communication and team skills.

The required business courses help to prepare students to comprehend the concepts and language common to the business realm. This serves to enhance the student's understanding of the role that information systems play in the operations of all types of business organizations.

The programming component is designed to help students become proficient in computer programming in an Object-Oriented Programming environment. Students will be exposed to the key role that databases play in capturing, storage, processing, and reporting of information within an organization.

Students completing a Bachelor of Science in Computer Information Systems/Business will be proficient in:

- Analyzing information requirements and business processes in order to design, create, and modify system solutions to benefit the organization.
- Participating as team members in the planning, creation, and maintenance of an organization's technology infrastructure.
- Recognizing and using effective verbal and written communication skills.

## Complete the following Business Administration courses (18 cr):

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- BUS 2370 - Business Communications 3 cr
- BUS 3230 - Financial Management 3 cr
- BUS 3250 - Organizational Development and Behavior 3 cr

## and the following Programming courses (18 cr):

- CIS 2011 - Visual Basic Programming 3 cr
- CIS 2031 - C/C++ Programming I 3 cr
- CIS 2032 - C/C++ Programming II 3 cr

- CIS 3022 - Advanced Visual Basic 3 cr
- CIS 3040 - Databases 3 cr
- CIS 3045 - Advanced Database Concepts 3 cr

and the following Information Technology courses (15 cr):

- CIS 3410 - Foundations of Information Systems 3 cr
- BUS 4220 - Networking 3 cr
- BUS 4530 - Technical Project Management 3 cr
- CIS 4120 - Systems Analysis and Design 3 cr
- CIS 4045 - Information Security Management 3 cr

and complete an internship (3 cr):

- CIS 4810 - Internship in Computer Information Systems
- OR-
- BUS 4810 - Internship in Business

(Credits required for the major: 54 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Criminal Justice (BA.CRJ)**

Students graduating with a B.A. degree in Criminal Justice will:

1. Know the difference between the criminal justice system and process, be able to identify historical trends in the evolution of each of the three components of the system, and identify and define the stages of the criminal justice processes. Additionally, they will be able to identify and compare the roles and responsibilities of criminal justice professionals throughout the system at each stage of the process.
2. Know the sources of law in American society, distinguish between criminal and civil law, and identify U.S. Constitutional amendments most closely associated with criminal justice, as well as important U.S. Supreme Court decisions pertaining to those amendments.
3. Be aware of current controversial issues in criminal justice and a range of policies and strategies for addressing those issues.
4. Understand the importance of organizational and management theory as applied to criminal justice, including such concepts as organizational environment, communication, motivation, occupational socialization, and managing change.
5. Be able to recognize and evaluate various methods of gathering data about crime and patterns of crime and victimization, recognize and compare various theories of crime causation, and identify a variety of approaches to crime prevention.

Complete these Criminal Justice courses (39 cr):

*Majors should complete CRJ 1010, CRJ 2010, CRJ 2020, CRJ 2080 in their first two years of study.*

*Majors must earn a "C" average or better in CRJ 1010, CRJ 2020, and CRJ 2080 and an overall 2.0 average in all CRJ courses in the major.*

- CRJ 1010 - Introduction to Criminal Justice **3 cr** (must be completed with a C or better)
  - CRJ 2010 - Law Enforcement in America **3 cr**
  - CRJ 2020 - American Judicial Process **3 cr**
  - CRJ 2080 - Correctional Philosophies and Practices **3 cr**
  - CRJ 2510 - Criminal Law **3 cr**
  - CRJ 2810 - Field Experience **2 cr**
  - CRJ 3010 - Crime Victims **3 cr**
  - CRJ 3020 - Criminal Justice Administration **4 cr** \*
  - CRJ 3170 - Ethical Issues in Criminal Justice **3 cr**
  - CRJ 4720 - Senior Seminar in Criminal Justice **3 cr**
  - and at least 3 additional CRJ electives, 2 of which must be at the 3000 or 4000 level **9 cr**
- \*Students must attend course-related out-of-class meetings as scheduled.

and complete one of the following courses (3 cr):

- SOC 2040 - Race, Ethnicity, Class and Gender **3 cr**
- SWK 2040 - Discrimination in American Society **3 cr**

and complete one of the following courses (3 cr):

- SOC 3210 - Criminology **3 cr**
- PSY 3160 - Criminal Behavior **3 cr**

and complete one of the following courses (4 cr):

- SOC 3910 - Research Methods **4 cr**
- PSY 3151 - Psychological Research I **4 cr** [For double majors in CRJ and PSY only]

(Credits required for the major: 49 cr)

And complete a minor

Consult with your Criminal Justice Advisor to select a minor.

A second major may be substituted for the minor.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements

**Note: CRJ majors must complete these specific General Education courses:**

- MAT 2021 - Statistics I **3 cr**
- PSY 1012 - Introduction to Psychological Science **3 cr**
- SOC 1010 - Introduction to Sociology **3 cr**



# Ecological Studies (BA.ECS)

*For further information about this major, contact Dr. Cynthia Moulton, the Ecological Studies Coordinator: [Cynthia.Moulton@Castleton.edu](mailto:Cynthia.Moulton@Castleton.edu)*

The B.A. in Ecological Studies offers students an opportunity to explore the science of ecology and the environment within the tradition of the liberal arts major. The multidisciplinary curriculum cultivates a broad understanding of the interconnectedness of living organisms and environmental systems, including the interactions between humans and the natural world.

Graduates will be prepared for careers in government and non-government environmental organizations as park naturalists, research/field technicians, wildlife specialists, environmental advocacy staff, nature writers, and outdoor educators. Additionally, some students may pursue graduate programs in science education, natural resource management, and environmental law/policy.

Further, students completing the degree requirements for the B.A. in Ecological Studies will have all necessary coursework required for professional certification through the Ecological Society of America.

## Complete the following courses (46-47 cr):

- BIO 1121 - Biology I **4 cr** (grade of C or higher required)
- BIO 1122 - Biology II **4 cr** (grade of C or higher required)
- CHE 1041 - General Chemistry I **4 cr** (grade of C or higher required)
- CHE 1042 - General Chemistry II **4 cr** (grade of C or higher required)
- GEY 1030 - Dynamic Earth **4 cr**  
**-OR-** GEY 1050 - The Earth through Time **4 cr**
- MAT 1531 - Calculus I **4 cr**  
**-OR-** MAT 2036 - Biostatistics **4 cr**
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- GEO 2210 - Introduction to Geographic Information Systems **3 or 4 cr**  
**-OR-** SCI 2210 - Introduction to Geographic Information Systems **3 or 4 cr**
- BIO 3060 - Ecology **4 cr**
- BIO 3070 - Genetics **4 cr**
- PHI 3160 - Environmental Ethics **3 cr**
- BIO 4030 - Evolution **4 cr**

## And complete three of the following courses (9-12 cr):

- BIO 3013 - Biogeochemistry **4 cr**
- BIO 3030 - Ecology of Water **3 cr**
- BIO 3065 - Plant Ecology **4 cr**
- BIO 3160 - Animal Behavior **4 cr**
- BIO 3350 - Natural History of the Mojave Desert **4 cr**
- BIO 4035 - Advanced Molecular Biology **4 cr**
- BIO 4250 - Ecotoxicology **3 cr**

(Credits required for the major: 55-59 cr)

## And complete a minor

Students majoring in Ecological Studies are required to complete a minor (approved by the program coordinator) in one of the many disciplines available at Castleton.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Recommendation

We strongly recommend that students complete an internship relating to their career goals.

## Note

The B.A. in Ecological Studies may not be combined with the BS.BIO, the BS.ENV, or a minor in Biology.

## Economics (BA.SSC.ECO)

Upon completion of the Economics major, students will be able to demonstrate:

1. A working knowledge of economic vocabulary, concepts, theories, and facts.
2. An understanding of the limitations of economic theories along with the ability to integrate theories with their limitations.
3. An appreciation of the economic world, its significance in human affairs, and the importance of the body of economic knowledge as a means to further human well-being.
4. An understanding of the interconnections between economic systems and political, social, and cultural systems as well as the natural environment.
5. The skills of reading economic subject material accurately and critically; expressing economic ideas clearly; applying economic theories in the real world appropriately; and using analytical, mathematical, and graphical economic tools all as preparation for their professional careers and lives as citizens.

To major in Economics, the student and the coordinator of Economics (who becomes the student's academic advisor) initiate a written Social Science Major-by-Contract with the following stipulations:

- a. Drawn up by the student and two faculty members, one representing the principal discipline (Economics) and one representing an appropriate secondary discipline.
- b. Approved and signed (normally by the time the student has reached the fifth semester or 75 credits) by the student, the two faculty sponsors, the coordinator of Economics, the chair(s) of the department(s) involved, and the academic dean.
- c. Subject to modification at the request of the student or advisor; any modifications must be agreed to by all parties to the contract.

The written contract will state how the student is to complete a minimum of **48 credits** to be distributed as follows:

- At least 21 credits in Economics, including a 4000-level Independent Study
- At least 18 credits in the secondary discipline

In addition:

- At least one course in History (3 cr)
- At least one course in two of the following disciplines: Environmental Studies, Geography, Global Studies, Political Science (6 cr)

- Included among all the 48 credits earned, at least 12 credits must be at least at the 2000-level and an additional 12 credits must be at least at the 3000-level.

Cross-listed courses may be used to fulfill these requirements, but the same course cannot be used to fulfill both the principal and the secondary disciplines requirements. Courses used to satisfy the above requirements may also be used to satisfy the general education requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## English: American Literature (BA.ENG.AMR)

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;
4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all English majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

## BA in Literature with a Concentration in American Literature

Complete the following courses (27 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

and complete 1 of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

and complete 15 credits selected from:

- ENG 3520 - American Poetry (L) 3 cr
- ENG 3530 - American Novel (L) 3 cr
- ENG 3550 - American Short Fiction (L) 3 cr
- ENG 3560 - American Drama (L) 3 cr
- ENG 3570 - American Literary Movements (L) 3 cr
- ENG 3580 - African American Literature (L) 3 cr
- ENG 3600 - American Literary Careers (L) 3 cr
- ENG 3610 - Women Writers (L) 3 cr

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Law Degree (CU/VLS 3+2)**

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

**English: Children's Literature (BA.ENG.CHL)**

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;
4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all English majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

**BA in Literature with a Concentration in Children's Literature**

Complete the following courses (27 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 2411 - Nineteenth Century Children's Literature (L) 3 cr

- ENG 2412 - Twentieth Century Children's Literature (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

and complete 1 of these courses (3 cr):

- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr

and complete 1 of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

and complete 12 credits selected from:

- ENG 3180 - Lyric Poetry (L) 3 cr
- ENG 3230 - Asian Literature 3 cr
- ENG 3620 - Overview Of Children's Literature (L) 3 cr
- ENG 3630 - Poetry for Children (L) 3 cr
- ENG 3640 - Images of the Child in Literature (L) 3 cr
- ENG 3650 - Art of Children's Book Illustration (L) 3 cr
- ENG 3660 - Folk Tales (L) 3 cr
- ENG 3720 - Special Topics In Children's Literature (L) 3 cr

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## English: Concentration by Contract (BA.ENG.CNT)

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;
4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all Literature majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

## BA in English with a Concentration by Contract

English majors may design individual plans for concentration study, completing 18 credit hours of coursework from among regularly offered courses in American Literature, Children's Literature, World Literature, and the Minor in Writing, as well as from independent studies and internships. They must consult with one or more English department faculty members as they design those plans. Such plans must demonstrate a coherent purpose—such as study in fiction, poetry, drama, or writing—and may proceed only by written contract approved by the department.

English majors who undertake a concentration by contract and who hope to teach theater must complete American Drama, Greek Tragedy, and the second Shakespeare course along with an additional 9 credit hours from among the regularly offered courses mentioned in the previous paragraph. They must also complete a Minor in Theater Education.

### Complete the following courses (21 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

### and complete one of these courses (3 cr):

- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr

### and complete one of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

### and complete a self-designed concentration of 18 credits

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

### English: Honors

Honors in English provides exceptional English majors the occasion to engage in sustained scholarly endeavor, to work under the careful guidance of departmental faculty, to produce an honors thesis or equivalent, and to be recognized for their achievements.

Students who wish to become candidates for Honors in English must meet these preliminary requirements:

1. Make formal application to the English Department chair at the end of sophomore or the beginning of junior year.
2. Attain a cumulative GPA of 3.5 or better in English and 3.0 or better overall by the time of application.
3. Earn a recommendation of candidacy from the department.

Once recommended, students must meet the requirements for the Bachelors of Arts Degree in English (see English: American Literature (BA.ENG.AMR), or English: Children's Literature (BA.ENG.CHL), or English: World Literature (BA.ENG.WLD), or English: Concentration by Contract (BA.ENG.CNT), and these additional requirements:

1. Complete ENG 4930 - Honors Thesis.
2. Produce an honors thesis or equivalent with guidance from a department honors committee.
3. Make a public presentation about the honors thesis or equivalent.
4. Attain a final cumulative GPA of 3.5 or better in English and 3.0 or better overall.
5. Earn an honors recommendation from the department. The designation "Honors in English" will appear on student transcripts.

### Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

### English: World Literature (BA.ENG.WLD)

Students who complete the BA in English will:

1. understand how literary and linguistic conventions have developed and operate;
2. understand how accomplished readers read fiction, poetry, and drama;
3. understand how accomplished writers create form, effect, and influence;

4. apply that understanding to their own reading and writing.

So that English department faculty can better evaluate each student's progress and accomplishments in these areas, all English majors must submit a portfolio of three essays during the spring semester of their sophomore year and another portfolio of three essays during the spring semester of their senior year. The department will distribute submission instructions at the beginning of each spring semester.

## BA in Literature with a Concentration in World Literature

Complete the following courses (27 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr (complete this course the first year)
- ENG 2010 - Expository and Argumentative Writing 3 cr
- ENG 2161 - World Literature through Renaissance (L) 3 cr
- ENG 2162 - World Literature from Enlightenment (L) 3 cr
- ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L) 3 cr
- ENG 2272 - English Literature: 18th Century to Present (L) 3 cr
- ENG 3260 - Western Mythology (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 4140 - Approaches to Literature (L) 3 cr

and complete one of these courses (3 cr):

- ENG 2311 - American Literature: Colonial to Civil War (L) 3 cr
- ENG 2312 - American Literature: Civil War to Present (L) 3 cr

and complete one of these courses (3 cr):

- ENG 3360 - Shakespeare Comedies and Histories (L) 3 cr
- ENG 3370 - Shakespeare Tragedies And Late Comedies (L) 3 cr

and complete 12 credits selected from:

- ENG 3170 - Epic Poetry (L) 3 cr
- ENG 3180 - Lyric Poetry (L) 3 cr
- ENG 3210 - Greek Tragedy (L) 3 cr
- ENG 3220 - World Fiction (L) 3 cr
- ENG 3230 - Asian Literature 3 cr
- ENG 3290 - Studies in World Literature (L) 3 cr
- ENG 3310 - Dante (L) 3 cr
- ENG 3610 - Women Writers (L) 3 cr
- ENG 3660 - Folk Tales (L) 3 cr
- Any appropriate 3000-level Modern Foreign Language literature course

(Credits required for the major: 45 cr)

Note that no more than two major courses may be taken pass/no pass



## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Recommendation

Intermediate proficiency in a foreign language (i.e. successful completion of two years of a foreign language at the university level) is recommended.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Environmental Science (BS.ENV)

*For further information about this major, contact Dr. Andrew Vermilyea, the Environmental Science Coordinator:  
Andrew.vermilyea@castleton.edu*

This program integrates the scientific disciplines of biology, chemistry, and geology to provide students with a strong framework from which to analyze environmental problems and develop effective, sustainable solutions. Students earning a BS in Environmental Science will pursue both laboratory and field careers in government, industry, and the non-profit sector. This program prepares students for careers and graduate degree programs in related environmental fields such as toxicology, hydrology, systems ecology, plant ecology, and water chemistry.

Students completing the Bachelor of Science in Environmental Science will demonstrate:

### Scientific Literacy

- Read and comprehend various forms of scientific literature including primary science research papers and current topical environmental science articles and books.
- Locate and identify various forms of scientific text in support of a research topic.
- Derive and interpret scientific data, as well as recognize bias and sources of error in scientific information.
- Communicate environmental science issues to peers and broad audiences orally and through writing.

### Analytical Thinking and Problem Solving Skills

- Differentiate the validity of various sources of information, assess the relevance of information in solving environmental problems, and consider multiple options for solutions.
- Follow laboratory protocols, safety standards, and field study procedures.
- Understand the use and limitations of statistical tools and ecological models.
- Learn and use meaningful questions in order to design scientific studies.

### Knowledge and Understanding of Environmental Concepts

- Explain and describe geological processes, ecological principles, and chemical interactions as they relate to the causes and consequences of environmental issues.
- Recognize that solutions to environmental problems such as climate change, population growth, biodiversity decline, pollution, and others involve an integrated multidisciplinary approach involving scientific and societal considerations.

## Complete the following courses (56-57 cr):

- BIO 1121 - Biology I 4 cr \*
- BIO 1122 - Biology II 4 cr \*
- CHE 1051 - Chemistry I 4 cr \*
- CHE 1052 - Chemistry II 4 cr \*
- GEY 1030 - Dynamic Earth 4 cr
- MAT 1531 - Calculus I 4 cr
- BIO 2010 - Cell and Molecular Biology 4 cr **-OR-** BIO 2125 - Fundamentals of Microbiology 4 cr
- CHE 2111 - Organic Chemistry I 4 cr
- MAT 2036 - Biostatistics 4 cr
- PHY 2110 - Physics I 4 cr
- PHY 2210 - Physics II 4 cr
- SCI 2100 - Science Colloquium 1 cr \*\*
- SCI 2210 - Introduction to Geographic Information Systems 3 or 4 cr
- BIO 3060 - Ecology 4 cr **-OR-** BIO 3065 - Plant Ecology 4 cr
- GEY 3110 - Hydrogeology 4 cr

\* Must earn a grade of C or better in order to take additional courses in the major.

\*\* SCI 2100 is *mandatory during the sophomore year* and recommended during junior and senior years; however, only one credit will count toward the major.

## And complete two of these upper-level elective courses (6-8 cr):

- BIO 3013 - Biogeochemistry 4 cr **-OR-** CHE 3013 - Biogeochemistry 4 cr
- BIO 3030 - Ecology of Water 3 cr
- CHE 3020 - Analytical Chemistry 4 cr
- CHE 3030 - Aqueous Geochemistry 3 cr
- BIO 4250 - Ecotoxicology 3 cr
- CHE 4010 - Environmental Kinetics and Chemical Fate 3 cr

(Credits required for the major: 62-65 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Additional Information

For students considering *graduate programs in environmental science*, MAT 2532 - Calculus II should be taken along with CHE 2112 - Organic Chemistry II.

For students considering *environmental engineering or hydrology careers/graduate programs*, a minor in mathematics is recommended with MAT 2532 - Calculus II, MAT 2533 - Calculus III, MAT 3210 - Linear Algebra, and MAT 3310 - Differential Equations.

In addition to the above requirements, we strongly recommend that students initiate an internship or research project in environmental science.

We also encourage students to consider the minor in Environmental Studies to enhance their breadth of knowledge of environmental issues.

The BS in Environmental Science may not be combined with a Biology or Ecological Studies major. Up to 12 credits may be applied to a minor in Biology, Chemistry, or Geology.

## Environmental Studies (BA.SSC.ENV)

Upon completion of the Environmental Studies major, students will be able to demonstrate:

1. A broad knowledge of the Social Science and Humanities approaches to the natural environment.
2. An awareness of the vast nature and scope of environmental problems.
3. The ability to critically analyze past, present, and proposed governmental policy approaches to environmental and sustainability issues.
4. An extensive set of insights into the complexity of the political, geographical, historical, economic, and social issues surrounding the environmental, environmental justice, and sustainability movements.
5. An understanding of-and ability to grapple with-the numerous ethical dimensions to many environmental issues.
6. An ability to become effective environmental problem-solvers in a diverse world with differences in environmental perspectives.

To major in Environmental Studies, the student and the coordinator of Environmental Studies (who becomes the student's academic advisor) initiate a written Social Science Major-by-Contract with the following stipulations:

- a. Drawn up by the student and two faculty members, one representing the principal discipline (Environmental Studies) and one representing an appropriate secondary discipline.
- b. Approved and signed (normally by the time the student has reached the fifth semester or 75 credits) by the student, the two faculty sponsors, the coordinator of Environmental Studies, the chair(s) of the department(s) involved, and the academic dean.
- c. Subject to modification at the request of the student or advisor; any modifications must be agreed to by all parties to the contract.

The written contract will state how the student is to complete a minimum of **48 credits** to be distributed as follows:

- At least 21 credits in Environmental Studies, including a 4000-level Independent Study. These courses may be chosen from ENV courses and courses cross-listed with ENV.
- At least 18 credits in the secondary discipline

In addition, at least nine more credits must be earned as follows:

POS 1020 - American Politics and Government **3 cr**

Students whose secondary discipline is a Natural Science must take at least one course in two of the following disciplines: ECO, GEO, GLB, HIS (beyond what they are already taking for their principal discipline) **6 cr**

Students whose secondary discipline is NOT a Natural Science must take at least one course in two of the following disciplines: BIO, CHEM, GEY, SCI (beyond what they are already taking for their principal discipline) **6 cr**

- Included among all the 48 credits earned, at least 12 credits must be at least at the 2000-level and an additional 12 credits must be at least at the 3000-.

Cross-listed courses may be used to fulfill these requirements, but the same course cannot be used to fulfill both the principal and the secondary disciplines requirements. Courses used to satisfy the above requirements may also be used to satisfy the general education requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Exercise Science (BS.EXS)

*For further information about this major, contact Dr. Justin Carlstrom, the Exercise Science Coordinator:  
Justin.Carlstrom@Castleton.edu*

Exercise Science is the study of the physiological responses and adaptations to exercise. This program offers specializations in three areas: Strength and Conditioning, Clinical Specialist, and Research. Coursework is designed to aid students in the preparation for graduate school and nationally recognized certifications, including those offered by the American College of Sports Medicine and National Strength and Conditioning Association.

Students who complete a degree program in the Exercise Science will:

1. Master knowledge and concepts fundamental to the pursuit of their disciplines, including those drawn from other fields of study;
2. Locate, comprehend, assess, and apply the scholarly work of scientists;
3. Communicate scientific information both orally and in writing;
4. Demonstrate the ability to follow laboratory protocols, safety standards, and data collection procedures;
5. Connect their course content to an internship experience;
6. Administer tests and interpret results in accordance with the requirements of the American College of Sports Medicine;
7. Instruct patients, clients, and athletes as to the proper procedures for performing self-administered fitness tests and assessing their readiness for physical activity.

### Complete the following courses (56 cr):

complete all of these courses:

- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- AHS 2170 - Strength Training Principles 2 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- AHS 3120 - Kinesiology 3 cr
- AHS 3150 - Physiology of Exercise 4 cr
- AHS 3820 - Practicum in Exercise Leadership 3 cr
- AHS 4152 - Pathophysiology and Clinical Exercise Physiology 3 cr
- AHS 4160 - Clinical Exercise Testing and Prescription 4 cr
- AHS 4220 - Scientific Foundations of Strength and Conditioning I 3 cr
- AHS 4221 - Scientific Foundations of Strength and Conditioning II 3 cr
- AHS 4250 - Clinical Electrocardiography 3 cr
- AHS 4260 - Nutrient Metabolism and Athletic Performance 3 cr
- PED 4910 - Senior Thesis 3 cr

and complete one of these courses:

- AHS 4830 - Internship In Exercise Science **1-12 cr** (3 cr required)
- AHS 4912 - Senior Research In Exercise Science **3 cr**

And complete 9 credits of Electives from this list:

- AHS 1070 - Basic Athletic Training **3 cr**
- AHS 3813 - Pharmacology and General Medical Conditions **2 cr**
- AHS 4170 - Enhancement of Athletic Performance **3 cr**
- BIO 2010 - Cell and Molecular Biology **4 cr**
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- BIO 3070 - Genetics **4 cr**
- BIO 3240 - Advanced Human Physiology **3 cr**
- CHE 2111 - Organic Chemistry I **4 cr**
- CHE 2112 - Organic Chemistry II **4 cr**
- CHE 3011 - Biochemistry with Discussion **4 cr**
- MAT 2021 - Statistics I **3 cr**
- PED 2140 - Fitness Center Management **3 cr**
- PED 2072 - Advanced Strength and Conditioning **1 cr**
- PED 4020 - Applied Nutrition and Weight Control **3 cr**
- PSY 1050 - Human Growth and Development **3 cr**
- PSY 3130 - Health Psychology **3 cr**
- PHY 1051 - General Physics I **4 cr**
- PHY 1052 - General Physics II **4 cr**

(Credits required for the major: 65 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Additional Information

Admittance to and retention in the Exercise Science Program is based on the following criteria throughout the student's undergraduate experience:

- Maintain a minimum cumulative GPA of 2.50
- Earn a minimum grade of "C" in required AHS prefix courses, BIO 2011, and BIO 2012

Any student failing to meet any of the above requirements will be placed on probation for a maximum period of one year.

Students receiving a grade lower than a "C" in required AHS courses, BIO 2011, and BIO 2012 will not be allowed to sequence into post-requisite course work until the prerequisite deficiency has been rectified. Students failing to rectify deficiencies within the one-year probation period will be removed from the Exercise Physiology major.

## **Geography (BA.SSC.GEO)**

Geography is concerned with understanding the Earth as home to humans. Geographers attempt to describe spatial patterns (what phenomena are located on the Earth's surface, and where they are located) and to analyze those patterns (why those phenomena are located where they are, and how they are related to each other). In so doing, they typically address one or more of the following themes: location, place, region, movement, and human-environment interactions.

Upon completion of the Geography major, students will be able to:

1. Communicate spatial concepts visually, orally, and in written form.
2. Interpret, use, and analyze maps and other geospatial representations.
3. Identify relevant physical and human systems and apply them to the study of the Earth, its regions, and its places.
4. Identify, describe, and analyze human and physical systems and their impacts on each other.
5. Use geographical ideas to understand past and present conditions and plan for the future.

To major in Geography, the student and the coordinator of Geography (who becomes the student's academic advisor) initiate a written Social Science Major-by-Contract with the following stipulations:

- a. Drawn up by the student and two faculty members, one representing the principal discipline (Geography) and one representing an appropriate secondary discipline.
- b. Approved and signed (normally by the time the student has reached the fifth semester or 75 credits) by the student, the two faculty sponsors, the coordinator of Geography, the chair(s) of the department(s) involved, and the academic dean.
- c. Subject to modification at the request of the student or advisor; any modifications must be agreed to by all parties to the contract.

The written contract will state how the student is to complete a minimum of **48 credits** to be distributed as follows:

- At least 21 credits in Geography, including a 4000-level Independent Study
- At least 18 credits in the secondary discipline

In addition:

- At least one course in History (**3 cr**)
- At least one course in two of the following disciplines: Economics, Environmental Studies, Global Studies, Political Science (**6 cr**)
- Included among all the 48 credits earned, at least 12 credits must be at the 2000-level and 12 credits at the 3000-level.

Cross-listed courses may be used to fulfill these requirements, but the same course cannot be used to fulfill both the principal and the secondary disciplines requirements. Courses used to satisfy the above requirements may also be used to satisfy the general education requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Geology (BS.GEY)

*For further information about this major, contact Dr. Timothy Grover, the Geology Coordinator:  
Timothy.Grover@Castleton.edu*

A comprehensive program in geology designed for preparation for graduate school, a career in geology, or secondary education.

Students completing the Bachelor of Science in Geology will demonstrate:

Knowledge and Understanding of Geological Concepts

- Comprehend and create a geologic map, construct a geologic cross-section, and construct and contour map.
- Use appropriate technological tools.
- Identify common rocks and minerals in hand sample and in thin section.
- Understand how physical properties of rocks and minerals relate to chemistry and crystal structure.
- Describe the layers of the Earth and understand the evidence used to deduce this structure.
- Characterize the major physiographic features of the Earth.
- Understand the theory of plate tectonics
- Explain rock structures at different scales, describe the rock and hydrologic cycles, and relate igneous, metamorphic, and sedimentary phenomena to plate tectonic processes.
- Understand the scope of geologic time, the chronology of major Earth events, and geologic age-dating methods.

Intellectual Skills

- Make systematic observations, construct hypotheses and make predictions, design an experiment, interpret data, and form conclusions based on the data.
- Locate, comprehend, assess, and apply the scholarly work of scientists according to accepted practices.
- Communicate scientific information, both orally and in writing, according to accepted practice in the field of geology.
- Use appropriate mathematical and statistical methods to evaluate and interpret geologic data.

Civic Learning

- Clear understanding of the issues and involvement of geology in modern society.

Complete the following mathematics courses (7 cr):

- MAT 1531 - Calculus I 4 cr
- MAT 2021 - Statistics I 3 cr

and complete the following chemistry and physics courses (12 cr):

- CHE 1051 - Chemistry I 4 cr
- CHE 1052 - Chemistry II 4 cr
- PHY 2110 - Physics I 4 cr

and complete the following Geology courses (28 cr):

- GEY 1030 - Dynamic Earth 4 cr
- GEY 2010 - Mineralogy 4 cr
- GEY 2020 - Sedimentology and Stratigraphy 4 cr
- GEY 2030 - Field Mapping 1 cr
- GEY 3010 - Igneous and Metamorphic Petrology 4 cr
- GEY 3050 - Structural Geology 4 cr
- GEY 4020 - Regional Geology 4 cr
- a Geology elective 3 cr

(Credits required for the major: 47 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Honors in Geology

Students wishing to graduate with Honors in Geology must meet the following requirements:

- a minimum GPA of 3.0 in all courses,
- a minimum GPA of 3.4 in all science and math courses,
- complete a minimum of 3 credits of independent research in geology,
- and present the results of their research in a public forum.

## Recommendation

The following recommended courses may be necessary or useful to students who wish to pursue a particular career or graduate work in Geology. Consult your advisor:

- CHE 2111 - Organic Chemistry I 4 cr
- GEY 1050 - The Earth through Time 4 cr
- GEY 3030 - Aqueous Geochemistry 3 cr  
-OR- CHE 3030 - Aqueous Geochemistry 3 cr
- GEY 3110 - Hydrogeology 4 cr
- Summer field course-program approved by the Geology Advisor.

## Global Studies (BA.GLB)

The Global Studies major provides an opportunity to acquire information, knowledge, and interpretive paradigms that enhance students' understanding of the changing world order and enable them to live more fulfilling and useful lives. This multidisciplinary major requires coursework that trains students to analyze the world in a variety of contexts—geographic, historical, economic, environmental, political, cultural, social, religious, philosophical, and aesthetic. Through their courses and study abroad, students develop the critical skills they will need to achieve their goals in our increasingly integrated local, national, and world communities. Upon completion of the Global Studies major, students will be able to demonstrate:

1. The ability to identify and analyze patterns of human interdependence, including
  - the contested notion of globalization, and the multiple and cumulative impacts of the powerful forces driving this process;
  - the global variety of organizational structures, institutions, and processes;
  - the ways in which cultures and peoples structure and frame common and competing interests in—and understandings of—the world;
  - interrelationships among cultures, environments, places, and technologies;
  - global environmental problems and mitigation strategies.
2. In-depth knowledge and analysis of concepts, theories and information gained through a concentrated exploration of one particular global theme.
3. In-depth knowledge and analysis of one particular region and its relationship to the rest of the world.



4. Understanding of multiple worldviews derived from academic study, proficiency in a modern foreign language, and cultural immersion abroad.

All majors must complete 51 credits: 18 credits in required core courses, 9 credits in one thematic concentration, 9 credits in one regional concentration, 12 credits in a foreign language, 0-2 credits in GLB 3810 - Cultural Immersion Experience, and 3 credits in GLB 4610 - Global Studies Capstone Seminar.

## I. Core Courses (18 cr)

These courses should be completed by the end of your fourth semester in the program

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- ECO 1040 - Global Economic Issues 3 cr
- GEO 2020 - World Regional Geography 3 cr
- GLB 1010 - Introduction to Global Studies 3 cr
- HIS 1135 - Global History 3 cr
- POS 1030 - Comparative Politics and Government 3 cr

## II. Thematic Concentration (9 cr)

Select ONE concentration (A, B, or C) and complete three courses within that concentration. No course fulfilling the Thematic Concentration may be counted for the Regional Concentration or vice versa.

### A. International Political Economy, Governance and Human Rights

This thematic concentration is designed for students interested in global institutions, power dynamics, and political processes, and who aspire to careers in the diplomatic service, the UN, peace work, or other international non-governmental organizations.

- ECO 3220 - International Trade and Development 3 cr
- POS 2040 - International Relations 3 cr
- POS 2210 - Political Ideologies 3 cr
- POS 3221 - Political Philosophy I 3 cr
- POS 3222 - Political Philosophy II 3 cr
- POS 3250 - International Organizations 3 cr
- POS 3260 - Middle Eastern Politics and Government 3 cr
- POS 4010 - US Foreign Policy 3 cr

### B. Environment/Sustainability

This thematic concentration is designed for students interested in the social science of environmental issues, and who aspire to careers devoted to solving environmental threats on a global scale.

- ANT 2210 - Anthropology and the Environment 3 cr
- ECO 3060 - Political Economy of the Environment 3 cr
- ENV 1210 - Environmental Harm and Mitigation Strategies 3 cr
- GEO 2150 - Cultural Geography 3 cr
- GEO 2220 - Weather and Climate 3 cr

- GEO 3080 - Globalization and the Environment **3 cr** or ENV 3080 - Globalization and the Environment **3 cr**
- PHI 3160 - Environmental Ethics **3 cr**
- POS 2310 - Environmental Politics **3 cr**

## C. Global Dynamics of Culture

This thematic concentration is designed for students interested in the cultural dimensions of our world, and who aspire to careers that could take them abroad and that require well-developed cultural sensitivities. Students should keep their career goals in mind as they select from this broad array of culture-related courses. No more than 6 credits may be taken in any one of four world regions (Africa & Middle East, Asia, Europe, the Americas).

- ANT 3210 - Anthropology of Food **3 cr**
- COM 2140 - Race, Gender and Sexuality in Media **3 cr**
- COM 2160 - International Communication **3 cr**
- COM 2330 - International Cinema **3 cr** -OR- THA 3135 - International Cinema **3 cr**
- ENG 2161 - World Literature through Renaissance (L) **3 cr**
- ENG 2162 - World Literature from Enlightenment (L) **3 cr**
- ENG 3230 - Asian Literature **3 cr**
- ENG 3290 - Studies in World Literature (L) **3 cr**
- HIS 1010 - Roots: Historical Perspectives on Global Problems and Issues **3 cr**
- HIS 2260 - Asia in the World **3 cr**
- HIS 2335 - Asia through Food and Film **3 cr**
- HIS 2410 - History and Culture of Latin America **3 cr**
- HIS 2431 - African History Before 1885 **3 cr**
- HIS 2432 - African History After 1885 **3 cr**
- HIS 3210 - Social History of Latin America **3 cr**
- HIS 3220 - Revolutions in Latin America **3 cr**
- HIS 3340 - Europe and the Middle East **3 cr**
- HIS 3465 - Apartheid South Africa **3 cr**
- HIS 3470 - Modern African History: Texts in Context **3 cr**
- HIS 3475 - Women and Gender in African History **3 cr**
- HIS 3480 - Special Topics: Africa in Global History **3 cr**
- HIS 3510 - Chinese History and Culture **3 cr**
- HIS 3520 - Japanese History and Culture **3 cr**
- HIS 3570 - History, Memory and War **3 cr**
- HIS 3720 - Topics in Asian History **3 cr**
- MUS 1080 - Global Music **3 cr**
- PHI 2010 - Comparative Religions **3 cr**
- SOC 3160 - Anthropology of Religion **3 cr**

## III. Regional Concentration (9 cr)

Select ONE region (A, B, C, or D) and complete three courses within that region. No course fulfilling the Thematic Concentration may be counted for the Regional Concentration or vice versa.

### A. Africa and Middle East

- HIS 2431 - African History Before 1885 3 cr
- HIS 2432 - African History After 1885 3 cr
- HIS 3340 - Europe and the Middle East 3 cr
- HIS 3465 - Apartheid South Africa 3 cr
- HIS 3470 - Modern African History: Texts in Context 3 cr
- HIS 3475 - Women and Gender in African History 3 cr
- HIS 3480 - Special Topics: Africa in Global History 3 cr

## B. Asia

- ENG 3230 - Asian Literature 3 cr
- HIS 2260 - Asia in the World 3 cr
- HIS 2335 - Asia through Food and Film 3 cr
- HIS 3510 - Chinese History and Culture 3 cr
- HIS 3520 - Japanese History and Culture 3 cr
- HIS 3570 - History, Memory and War 3 cr
- HIS 3720 - Topics in Asian History 3 cr
- PHI 2110 - Asian Philosophy 3 cr

## C. Europe

- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr
- ARH 3010 - Classical Art: Greece and Rome 3 cr
- ARH 3030 - Italian Renaissance Art 3 cr
- ARH 3040 - The Art of Medieval Europe 3 cr
- ARH 3051 - History of Nineteenth Century Art 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr
- ENG 3170 - Epic Poetry (L) 3 cr
- ENG 3310 - Dante (L) 3 cr
- HIS 2255 - Medieval and Early Modern Europe 3 cr
- HIS 2285 - Modern Europe 3 cr
- HIS 3340 - Europe and the Middle East 3 cr
- HIS 3345 - Masculinities in Modern Europe 3 cr
- HIS 3365 - The British Empire 3 cr
- HIS 3450 - Women in European History 3 cr
- MUS 2031 - History of Western Music: Ancient to Baroque 3 cr
- MUS 2032 - History of Western Music: Classical to Modern 3 cr
- PHI 3011 - History of Philosophy I 3 cr
- PHI 3012 - History of Philosophy II 3 cr
- POS 3320 - European Politics and Government 3 cr

## D. The Americas

- HIS 2410 - History and Culture of Latin America 3 cr
- HIS 3210 - Social History of Latin America 3 cr

- HIS 3220 - Revolutions in Latin America **3 cr**
- SPA 1180 - Latin America: Past and Present **3 cr**
- SPA 2030 - Spanish American Cultures **3 cr**
- SPA 3060 - Latin America: The Making of the Canon (1492-1899) **3 cr**
- SPA 3070 - Latin America: The Making of the Canon (1900 to the present) **3 cr**
- SPA 3110 - Latin American Novel and Short Story **3 cr**
- SPA 3150 - The Novel of the Mexican Revolution **3 cr**
- SPA 3160 - Latin American Women Writers **3 cr**

#### IV. Cultural Immersion (12 cr)

- Complete 12 credits or equivalent in a modern foreign language **12 cr**
- GLB 3810 - Cultural Immersion Experience **0-2 cr**

#### V. Capstone (3 cr)

- GLB 4610 - Global Studies Capstone Seminar **3 cr**

(Credits required for the major: 51 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Health Education (BS.HED)

The Department of Health, Human Movement, & Sport offers the Bachelor of Science degree in Health Education (BS.HED). Health educators assist individuals and communities in promoting positive health behaviors. They have specialized skills in planning, implementing and evaluating community programs that focus on a variety of negative health issues.

Students completing the baccalaureate degree in Health Education will demonstrate:

- The ability to organize, develop, implement, and evaluate a comprehensive health education program (Pre-K-12) that includes the following Vermont health core concept areas: Alcohol, Tobacco, and Other Drugs; Family, Social, and Sexual Health; Mental and Emotional Health; Nutrition and Physical Activity; Personal Health and Wellness; and Violence and Injury Prevention.
- The ability to develop and implement an assessment plan consistent with national and/state standards.
- The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

## Complete these courses (44 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
  - AHS 2030 - Drug and Alcohol Curriculum 3 cr
  - AHS 2150 - Designs for Fitness 3 cr
  - BIO 2011 - Human Anatomy and Physiology I 4 cr
  - BIO 2012 - Human Anatomy and Physiology II 4 cr
  - HED 3030 - Health Behavior Theory 3 cr
  - PED 1015 - Introduction to Health and Physical Education 3 cr
  - PED 2160 - Emergency Care and Personal Safety 3 cr
  - PED 2370 - Community Health 3 cr
  - PED 4020 - Applied Nutrition and Weight Control 3 cr
  - SWK 2020 - Family Violence 3 cr
  - SWK 2030 - Human Sexuality 3 cr
- And take one of the following:
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
  - PED 3040 - Psychological Aspects of Exercise 3 cr
- And take one of the following:
- PSY 1050 - Human Growth and Development 3 cr
  - PSY 3265 - Child and Adolescent Development 3 cr

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## And consider pursuing a concentration

Students majoring in Health Education are encouraged to further their professional skills and knowledge by pursuing one of these Concentrations:

- The Concentration in Community Health Education prepares students for careers in non-school health settings such as public health departments, hospitals, work site health promotion, and non-profit community agencies. This program prepares students to take the community Health Education Specialist (CHES) exam.
- The Concentration in School Health Education prepares pre-service teacher candidates to be certified to teach health education in public schools. Graduates also find employment in other health education venues such as community health and safety agencies.

## **Health Education: Community Health Education (BS.HED.CED)**

The Department of Health, Human Movement, & Sport offers the Bachelor of Science degree in Health Education (BS.HED). Health educators assist individuals and communities in promoting positive health behaviors. They have specialized skills in planning, implementing and evaluating community programs that focus on a variety of negative health issues.

Students majoring in Health Education are encouraged to further their professional skills and knowledge by pursuing either the Concentration in School Health Education or the Concentration in Community Health Education.

Students completing the baccalaureate degree in Health Education will demonstrate:

- The ability to organize, develop, implement, and evaluate a comprehensive health education program (Pre-K-12) that includes the following Vermont health core concept areas: Alcohol, Tobacco, and Other Drugs; Family, Social, and Sexual Health; Mental and Emotional Health; Nutrition and Physical Activity; Personal Health and Wellness; and Violence and Injury Prevention.
- The ability to develop and implement an assessment plan consistent with national and/state standards.
- The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

## BS in Health Education with a Concentration in Community Health Education

The Community Health Education concentration emphasizes the Seven Areas of Responsibility for a Community Health Educator. The concentration prepares students for careers in public or private health agencies, hospitals, health clinics, non-governmental health agencies, and in business and industry.

Courses emphasize administrative issues; health promotion skill-building; program planning, implementation and evaluation; and marketing strategies. Students learn how to prepare written materials as well as electronic media presentations for mass audiences.

Upon graduation, students may take the Certified Health Education Specialist (CHES) examination (see more about CHES below).

### Complete these courses required of all Health Ed majors (44 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2150 - Designs for Fitness 3 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- HED 3030 - Health Behavior Theory 3 cr
- PED 1015 - Introduction to Health and Physical Education 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2370 - Community Health 3 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- SWK 2020 - Family Violence 3 cr
- SWK 2030 - Human Sexuality 3 cr
- And take one of the following:
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 3040 - Psychological Aspects of Exercise 3 cr
- And take one of the following:
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

and complete these courses for the Community Health Education concentration (18-27 cr):

- HED 2310 - Health Education Methods 3 cr
- HED 3051 - Community Health Education I 3 cr
- HED 4052 - Community Health Education II 3 cr
- HED 4810 - Internship in Community Health Education 3-12 cr
- MAT 2021 - Statistics I 3 cr
- And take one of the following:
- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr

(Total health education credits required for BS.HED.CED: 62-71 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## CHES

The field of health education has established a national credentialing certificate called the **Certified Health Education Specialist (CHES)**. It is a voluntary credentialing process that is generally not required as a condition of employment. However, we recommend that community health educators and students obtain certification, as the CHES certificate conveys additional standards of accomplishment that may contribute to one's prospects for getting hired. To obtain such a certificate, the National Commission for Health Education Credentialing, Inc. (NCHEC) administers a written exam several times a year at various locations throughout the country. Once certified, CHES-health educators are required to obtain continuing education credits to maintain the certification. For further information about the CHES process, visit the National Commission for Health Education Credentialing, Inc. website.

## Health Education: School Health Education (BS.HED.ESE)

The Department of Health, Human Movement, & Sport offers the Bachelor of Science degree in Health Education (BS.HED). Health educators assist individuals and communities in promoting positive health behaviors. They have specialized skills in planning, implementing and evaluating community programs that focus on a variety of negative health issues.

Students completing the baccalaureate degree in Health Education will demonstrate:

- The ability to organize, develop, implement, and evaluate a comprehensive health education program (Pre-K-12) that includes the following Vermont health core concept areas: Alcohol, Tobacco, and Other Drugs; Family, Social, and Sexual Health; Mental and Emotional Health; Nutrition and Physical Activity; Personal Health and Wellness; and Violence and Injury Prevention.
- The ability to develop and implement an assessment plan consistent with national and/state standards.
- The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

## BS in Health Education with a Concentration in School Health Education

The concentration in School Health Education prepares students for Vermont Agency of Education Level I Teacher Licensure in Health Education PreK-12. The concentration offers field experiences in local schools that focus on the

skill, knowledge, and understanding necessary to be successful in contemporary educational settings. The department is strongly committed to a standards-based approach with high expectations for students' effort, achievement, and behavior.

Students completing this program are expected to demonstrate skills, including, but not limited to:

1. The ability to organize, develop, implement, and evaluate a comprehensive health education program (pre K-12 curriculum) that includes the following Vermont health core concept areas: alcohol, tobacco, and other drugs; family, social, and sexual health; mental and emotional health; nutrition and physical activity; personal health and wellness; and violence and injury prevention.
2. The ability to develop and implement an assessment plan consistent with national and state standards.
3. The ability to develop accommodations for a health education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

**Complete these courses required of all Health Education majors (44 cr):**

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2150 - Designs for Fitness 3 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- HED 3030 - Health Behavior Theory 3 cr
- PED 1015 - Introduction to Health and Physical Education 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2370 - Community Health 3 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- SWK 2020 - Family Violence 3 cr
- SWK 2030 - Human Sexuality 3 cr
- And take one of the following:
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 3040 - Psychological Aspects of Exercise 3 cr
- And take one of the following:
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

**and complete these courses for the School Health Education concentration (28 cr):**

- EDU 2110 - Introduction to Exceptional Populations 3 cr
- HED 2310 - Health Education Methods 3 cr
- PED 2420 - Foundations of Teaching Health and Physical Education 3 cr
- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr
- HED 4510 - Seminar in Teaching Health Education 1 cr
- HED 4801 - Directed Student Teaching in Health Education I 6 cr
- HED 4802 - Directed Student Teaching in Health Education II 6 cr



(Total health education credits required for BS.HED.ESE: 72 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Students seeking licensure

Students seeking licensure are responsible for developing a portfolio throughout their undergraduate experience demonstrating individual learning and growth as well as the ways in which the individual course work and field experiences foster proficiency in meeting the Vermont standards for teacher preparation. Integral field experiences ensure that the student becomes part of a collaborative relationship in a school setting. Field experiences become more complex as students advance in the program, culminating in a semester-long student teaching experience. A minimum of 80 scheduled hours of field experience is required prior to student teaching.

Students seeking the BS.HED.ESE must pass through Gateways I and II in order to qualify for student teaching.

### Requirements for Gateway I include:

- Receive a positive recommendation encouraging continuation in the program;
- Earn a cumulative GPA of 2.75;
- Earn a minimum within the major GPA of 2.75;
- Make progress towards completion of the General Education Program;
- Submit electronic portfolio evidence completed in PED 2420 and HED 2310 that demonstrates progress in the student's understanding of an effective teaching and learning environment and evidence of a commitment to one's personal development as a future professional;
- Pass the Praxis Core Academic Skills Test for Educators or meet the alternative SAT score requirements.

Following completion of Gateway I, emphasis will be on completing the requirements of the school health education major track as well as honing pedagogical expertise in the field and classroom. Prospective teacher candidates will also continue to build their electronic portfolios documenting an understanding of the central connections between content and pedagogy.

### Requirements for Gateway II include:

- Complete the department's application to student teach the semester before enrolling in student teaching;
- Pass the first portion of their electronic portfolio, which includes evidence indicated by the Department of Health, Human Movement, & Sport;
- Have completed all health education major and general education coursework or obtain permission from the Teacher Education Program Coordinator
- Earn a cumulative GPA of 3.0 and earn a GPA of 3.0 within the health education major or written certification of intellectual competence by an Academic Dean;
- Receive a recommendation from members of the faculty to continue in the teacher education program.
- Through related coursework, complete a minimum of 80 hours of supervised field experience;
- Pass the ETS Praxis II examination in Health Education content knowledge.

Upon completion of Health Education Gateway II, students may be accepted into the student teaching practicum.

### Teacher Licensure (preK-12):

To be recommended for licensure by the State of Vermont, a student must:

- Successfully complete and graduate from an approved program.

- Receive a grade of "B" or better in Student Teaching I and Student Teaching II and a "pass" in HED 4510.
- Maintain a GPA of 3.0 and a B average (GPA of 3.0) in the field of major studies.
- Meet the required standard for the licensure portfolio.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Pass the Praxis II examination in health education content knowledge.

Students wishing to work towards teacher licensure in preK-12 Health Education must apply and be accepted into Health Education Gateway II.

## Health Science (BS.HLT)

*For further information about this major, contact Dr. Peter Kimmel, the Health Science Coordinator:  
Peter.Kimmel@Castleton.edu*

An interdisciplinary program designed to prepare students for entry into professional programs in health related fields, such as physical therapy, occupational therapy, and physician assistant.

Students completing the Bachelor of Science in Health Science will demonstrate:

- Mastery of factual knowledge and understanding of processes related to the structure and function of the human body, including the mechanisms and treatment of disease or injury.
- Ability to locate, comprehend, and evaluate information related to human biology, health, and medicine.
- Ability to communicate scientific information both orally and in writing.
- Adherence to laboratory protocols and ability to collect data using the scientific method.
- Understanding of the nature of their chosen profession, including ethics and standards of professional conduct, through an internship experience.

Complete the following courses as part of the Gen Ed core requirement (9 cr):

- MAT 2021 - Statistics I 3 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- SOC 1010 - Introduction to Sociology 3 cr **-OR-** SOC 1030 - Social Problems 3 cr

And complete the following science courses (25-27 cr):

- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- PHY 1051 - General Physics I 4 cr
- PHY 1052 - General Physics II 4 cr
- AHS 2810 - Internship in Health Science 1-3 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr

And complete at least 24 credits from the following courses:

*At least 3 credits must be selected from each of the four areas.*

## A. Allied Health and Physical Education

- AHS 2151 - Evaluation and Management of Injuries to the Lower Extremity 3 cr
- AHS 2152 - Evaluation and Management of Injuries to the Upper Extremity 3 cr
- AHS 2160 - Anatomical Aspects of Sports Medicine 3 cr
- AHS 2340 - Introduction to Therapeutic Exercise 2 cr
- AHS 3090 - Introduction to Alternative/Complementary Medicine 3 cr
- AHS 3120 - Kinesiology 3 cr
- AHS 3813 - Pharmacology and General Medical Conditions 2 cr
- AHS 4160 - Clinical Exercise Testing and Prescription 4 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr

## B. Psychology

- PSY 2170 - Drugs and Behavior 3 cr
- PSY 3060 - Child Psychopathology 3 cr
- PSY 3070 - Abnormal Psychology 3 cr
- PSY 3130 - Health Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr
- PSY 3410 - Biopsychology 3 cr
- PSY 4050 - Nature and Nurture 3 cr

## C. Science

- AHS 3150 - Physiology of Exercise 4 cr
- AHS 4152 - Pathophysiology and Clinical Exercise Physiology 3 cr
- BIO 2010 - Cell and Molecular Biology 4 cr
- BIO 2125 - Fundamentals of Microbiology 4 cr
- BIO 3070 - Genetics 4 cr
- BIO 3210 - Developmental Biology 4 cr
- BIO 3240 - Advanced Human Physiology 3 cr
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 2112 - Organic Chemistry II 4 cr
- CHE 3011 - Biochemistry with Discussion 4 cr

## D. Contemporary Health Issues

- PED 2370 - Community Health 3 cr
- PED 3060 - Women's Health Issues 3 cr
- PHI 3020 - Medical Ethics 3 cr
- SOC 3070 - Medical Sociology and Mental Illness 3 cr
- SOC 2230 - Death And Dying 3 cr
- SWK 2130 - Introduction to the Study of Aging 3 cr

(Credits required for the major: 58-60 cr)

## Pharmacy Degree (CU/ACPHS 3+4)

This major participates in the 3+4 program with Albany School of Pharmacy & Health Sciences, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS.

For details, see the Pharmacy Degree page.

## History (BA.HIS)

### Bachelor of Arts in History

Upon completion of the History major, students will be able to demonstrate:

1. A broad and deep store of knowledge of human history, ancient to present, as well as:
  - knowledge of chronology, place, and significance;
  - mastery of the various theories, methodologies, and interpretations current in the history profession;
  - historical empathy;
  - understanding the role of the past in shaping current events and the richness of the past as a source for meeting contemporary challenges.
2. The ability to conduct and present both orally and in writing quality research that:
  - poses a significant historical question;
  - identifies, evaluates, contextualizes, and utilizes a wide variety of relevant primary and secondary sources;
  - articulates a clear thesis statement;
  - argues effectively by employing and properly citing evidence in support of a thesis;
  - explains the historical significance of the research.
3. The capacity to be teachers, and/or attend graduate school, and/or embark upon history-related careers.

### To earn the B.A. in History:

I. Complete 33 credits in History (15 of these credits must be at the 3000 level)

-the four introductory survey courses (12 cr):

- HIS 1125 - The Ancient World 3 cr
- HIS 1135 - Global History 3 cr
- HIS 1215 - Survey of Early U.S. History 3 cr
- HIS 1225 - Survey of Modern U.S. History 3 cr

-plus one course above the 1000 level in each of the following areas (12 cr):

- African History 3 cr
- Asian History 3 cr
- European History 3 cr

- Latin American History 3 cr

-plus three additional History courses above the 1000 level (9 cr)

## II. Complete 9 credits in the Social Sciences (9 cr):

- one Economics course 3 cr
- one Geography course 3 cr
- one Political Science course 3 cr

## III. Complete the two capstone History courses (6 cr):

- HIS 4601 - History Research Seminar 3 cr
- HIS 4602 - History Thesis Seminar 3 cr

(Credits required for the major: 48 cr)

And complete the university's Gen Ed requirements

**Review** the Gen Ed requirements.

### Note:

Students who plan to be secondary Social Studies teachers should take ECO 3080 - Foundations of Economics for Secondary Educators .

It is *strongly recommended* that History majors also complete *either* an academic minor, *or* 12 credits in another academic discipline chosen in consultation with the advisor, *or* education licensure requirements; *and* demonstrate the ability to read a foreign language.

Students with either second majors, or wishing to be licensed to teach in elementary or secondary schools, must have an advisor from both sponsoring departments.

All courses taken to fulfill the History major requirements may also be used to fulfill the general education and academic minor requirements.

Motivated students should consider taking the program in Honors History.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## **History: Honors (BA.HIS.HON)**

# Bachelor of Arts in History Honors

The History Honors Program provides a more rigorous version of the History major than the regular Bachelor's program and it offers the opportunity to work even more closely with the department's faculty to produce an original piece of historical research. The program is strongly recommended for students who wish to pursue graduate study but it is appropriate for any student wishing to study history more broadly and in greater depth.

## Eligibility

The candidate must be a History major with a GPA of at least 3.3 in History (HIS) courses as well as an overall GPA of at least 3.0.

The candidate must be recommended in writing by two members of the History faculty, one of whom will serve as the student's Honors advisor.

The candidate must then be approved as a History Honors major by the HGEP Department; such acceptance ordinarily occurs before the end of the sophomore year. The Department then forms an Honors Committee (comprised of the Honors advisor, the History Thesis Seminar instructor, and a third reader) that consults regularly with the candidate to help him or her complete the requirements below.

## Requirements:

1. Complete the requirements of the History major.
2. Complete six credits of university-level foreign language courses or equivalent language-learning experience, to be approved by the Honors Committee.
3. Complete HIS 4910, an independent study that focuses on developing historiographical knowledge of the student's intended History Honors Thesis topic, and should be taken prior to or concurrent with enrollment in HIS 4601: History Research Seminar.
4. Submit a History Honors Thesis that demonstrates mastery of a historically significant topic, a thorough engagement with a wide range of primary and secondary sources, and advanced knowledge of-and ability to employ-historical methods, theories and research skills.
5. Conduct a public defense of the History Honors Thesis in which the candidate satisfactorily presents, explains, and defends the research, writing, organization, and conclusions of the thesis. The oral defense takes place no later than the last week of the candidate's final semester.

## Mathematics (BA.MAT)

Students who complete the Mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

Complete the following courses (39 cr):

- CIS 2031 - C/C++ Programming I 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr

- MAT 2533 - Calculus III 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3220 - Probability 3 cr
- MAT 3230 - Mathematical Statistics 3 cr
- MAT 3310 - Differential Equations 3 cr
- MAT 3410 - Foundations of Mathematics 3 cr
- MAT 4110 - Advanced Calculus 3 cr
- MAT 4130 - Abstract Algebra 3 cr
- MAT 4720 - Senior Seminar 3 cr

and complete 4 courses selected from the following (12 cr):

- BUS 4130 - Quantitative Business Decisions 3 cr
- MAT 2550 - Mathematics: A Cultural Perspective 3 cr
- MAT 3250 - Applied Statistics 3 cr
- MAT 4140 - Geometry 3 cr
- MAT 4710 - Topics in Mathematics 1-3 cr (may be repeated)

(Credits required for the major: 51 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

In addition, Foreign language proficiency is recommended (12 credits or equivalent)

## **Mathematics: Elementary Education (BA.MAT.EED)**

This major is for students interested in teaching mathematics at the elementary school level . Mathematics teachers play a critical role in our society, and students who complete this program are in great demand.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

In addition, students who complete a program leading to teaching:

1. Acquire a strong foundation in both mathematics content and teaching methods,
2. Gain experience working with students through tutorships and internships.

To be accepted into the BA.MAT.EED program, students must obtain a positive letter of recommendation from a faculty member; receive approval from the Mathematics Department chair; select an academic advisor in the Mathematics Department.

Complete the following courses (37 cr):

- MAT 1020 - Intermediate Algebra 3 cr
- MAT 1221 - Finite Mathematics 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2550 - Mathematics: A Cultural Perspective 3 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr
- MAT 3020 - Mathematics for Elementary Teachers 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3820 - Mathematics Tutorship 1-3 cr (3 cr required)
- MAT 4140 - Geometry 3 cr
- MAT 4210 - Teachers as Researchers 2 cr
- MAT 4720 - Senior Seminar 3 cr

and at least 1 of the following courses (3 cr):

- MAT 3220 - Probability 3 cr
- MAT 3310 - Differential Equations 3 cr
- MAT 4710 - Topics in Mathematics 1-3 cr

(Subtotal of Math credits required: 40 cr)

and complete all Education Department requirements for Elementary Education.

## **Mathematics: Major-by-Contract (BA.MAT.CNT)**

The Bachelor of Arts in Mathematics by Contract is for students who wish to design their own program of study,.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

Students must complete a contract designed and signed by the student and a Mathematics faculty sponsor and approved by the Mathematics Department chair. The contract must include at least 30 credits in mathematics and 24 credits in a second discipline. Normally the contract is approved by the time the student has reached the fifth semester or 75 credits.

NOTE: Those students wishing to have education as the second discipline should opt for BA.MAT.SED OR BA.MAT.EED since all Education Department requirements for Elementary Education and Secondary Education must be satisfied for a teaching degree.

## **Mathematics: Secondary Education (BA.MAT.SED)**



This major is for students interested in teaching mathematics at the middle and high school level. Mathematics teachers play a critical role in our society, and students who complete this program are in great demand.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

In addition, students who complete a program leading to teaching:

1. Acquire a strong foundation in both mathematics content and teaching methods,
2. Gain experience working with students through tutorships and internships.

To be accepted into the BA.MAT.SED program, students must obtain a positive letter of recommendation from a faculty member; receive approval from the Mathematics Department chair; and select an academic advisor in the Mathematics Department.

**Complete the following courses (42 cr):**

- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr
- MAT 2533 - Calculus III 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3220 - Probability 3 cr
- MAT 3230 - Mathematical Statistics 3 cr
- MAT 3310 - Differential Equations 3 cr
- MAT 3410 - Foundations of Mathematics 3 cr
- MAT 3820 - Mathematics Tutorship 1-3 cr (3 cr required)
- MAT 3035 - Teaching Mathematics I 3 cr
- MAT 4130 - Abstract Algebra 3 cr
- MAT 4140 - Geometry 3 cr
- MAT 4720 - Senior Seminar 3 cr

**and at least 1 of the following courses (3 cr):**

- MAT 2550 - Mathematics: A Cultural Perspective 3 cr
- MAT 4710 - Topics in Mathematics 1-3 cr
- MAT 4035 - Teaching Mathematics II 3 cr

(Subtotal of Math credits required: 45 cr)

And complete all Education Department requirements for Secondary Education.

**Mathematics: Statistics (BA.MAT.STA)**

This major is for students who want to combine mathematics, statistics, and applications. This program prepares students for a variety of high-demand careers in industry and government, or for further study.

Students who complete the mathematics major are able to:

1. Analyze and solve real-world problems using a variety of mathematical techniques,
2. Convey mathematical information in effective ways,
3. Choose and employ appropriate technology,
4. Secure desired employment or gain admission to graduate or professional programs of study.

**Complete the following courses (39 cr):**

- CIS 2031 - C/C++ Programming I 3 cr
- MAT 1531 - Calculus I 4 cr
- MAT 2532 - Calculus II 4 cr
- MAT 2533 - Calculus III 4 cr
- MAT 3210 - Linear Algebra 3 cr
- MAT 3220 - Probability 3 cr
- MAT 3230 - Mathematical Statistics 3 cr
- MAT 3250 - Applied Statistics 3 cr
- MAT 3410 - Foundations of Mathematics 3 cr
- MAT 4010 - Design of Experiments 3 cr
- MAT 4020 - Applied Linear Regression 3 cr
- MAT 4720 - Senior Seminar 3 cr

**and complete 4 courses selected from the following (12 cr):**

- MAT 3310 - Differential Equations 3 cr
- MAT 4110 - Advanced Calculus 3 cr
- MAT 4140 - Geometry 3 cr
- BUS 4030 - Marketing Research 3 cr
- BUS 4110 - Operations Management 3 cr
- BUS 4130 - Quantitative Business Decisions 3 cr

**(Credits required for the major: 51 cr)**

**And complete the university's Gen Ed requirements**

Review the Gen Ed requirements.

## **Multidisciplinary Studies (BA.MDS)**

The Multidisciplinary Studies (MDS) major provides students with broad exposure to four key liberal arts fields: English, history/social sciences, mathematics, and science. While open to all students, the MDS major is particularly designed for students seeking to become elementary education teachers. (Such students must also complete the courses for Elementary Education Licensure.)

The MDS major is overseen by the Faculty Assembly Committee on Teacher Education.

Educational objectives:

1. Students will demonstrate knowledge of appropriate content in the areas of English Language Arts, particularly the conventions of written English and the dimensions of quality writing and types of writing, as well as a wide variety of quality, age-appropriate literature across genres, and strategies for textual analysis. Furthermore, students will practice appropriate pedagogy for teaching writing as well as textual analysis of literature.
2. Students will demonstrate knowledge of historical and social science content, concepts, and skills in the areas of historical thinking; history; cultural geography; diversity, unity, identity, and interdependence; and citizenship as delineated in current national professional standards.
3. Students will demonstrate knowledge of essential numeracy concepts and their development, as well as content in the areas of number and operations; algebra and functions; geometry in the areas of numbers and operations, geometry and measurement; and data analysis, statistics, and probability.
4. Students will demonstrate knowledge of scientific content, concepts and skills in the areas of development of students' scientific inquiry process; life sciences; physical sciences; Earth, environmental, and atmospheric sciences
5. Students will demonstrate content knowledge in depth for one of four liberal arts content areas.

*Note: For students seeking licensure, no courses for the MDS major may be taken on a pass/no pass basis.*

## I. Complete the requirements of the four content areas (English, History/Social Sciences, Mathematics, and Science):

### English Requirements (12 cr):

Complete this course:

- ENG 2010 - Expository and Argumentative Writing 3 cr

And complete THREE of these courses:

- ENG 1310 - Introduction to Literature (L) 3 cr
- ENG 2411 - Nineteenth Century Children's Literature (L) 3 cr
- ENG 2412 - Twentieth Century Children's Literature (L) 3 cr
- ENG 3620 - Overview Of Children's Literature (L) 3 cr
- ENG 3630 - Poetry for Children (L) 3 cr
- ENG 3640 - Images of the Child in Literature (L) 3 cr
- ENG 3650 - Art of Children's Book Illustration (L) 3 cr
- ENG 3660 - Folk Tales (L) 3 cr
- ENG 3690 - The English Language: Grammar 3 cr
- ENG 3720 - Special Topics In Children's Literature (L) 3 cr

### History/Social Sciences requirements (12 cr):

Complete ONE of these courses:

- GEO 1060 - Fundamentals of Geography 3 cr
- GEO 2020 - World Regional Geography 3 cr

And complete:

- HIS 1125 - The Ancient World 3 cr

And complete ONE of these courses:

- HIS 1215 - Survey of Early U.S. History 3 cr
- HIS 1225 - Survey of Modern U.S. History 3 cr

And complete ONE of these courses:

- POS 1020 - American Politics and Government 3 cr
- POS 1030 - Comparative Politics and Government 3 cr

## Mathematics Requirements (12-13 cr):

Complete TWO of these courses:

- MAT 1531 - Calculus I 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr
- MAT 2550 - Mathematics: A Cultural Perspective 3 cr

And complete these two courses:

- MAT 3020 - Mathematics for Elementary Teachers 4 cr
- MAT 4210 - Teachers as Researchers 2 cr

## Science Requirements (16 cr):

Complete 16 credits from the courses listed below.

At least 7 of the 16 credits must be chosen from the list of **Life Science** courses, and at least 7 of the 16 credits must be chosen from the list of **Physical Science** courses.

Life Science

- AHS 1010 - Contemporary Health Issues 3 cr
- BIO 1010 - Human Biology and Laboratory 4 cr
- BIO 1160 - Flora of Vermont 3-4 cr
- BIO 1270 - Horticulture of Medicinal Plants 3 cr
- BIO 1310 - Explorations in Biology 1 cr
- BIO 1320 - Tropical Diversity 4 cr
- BIO 2140 - Botany 3 cr
- BIO 2035 - Animal Diversity 4 cr

Physical Science

- CHE 1311 - Chemistry in the Classroom 4 cr
- GEO 2220 - Weather and Climate 3 cr
- GEY 1030 - Dynamic Earth 4 cr
- GEY 1040 - Environmental Geology 4 cr
- GEY 1050 - The Earth through Time 4 cr
- PHY 1110 - Introduction to Astronomy 3 cr
- PHY 1140 - Astronomy: Exploring the Universe 4 cr
- PHY 1150 - Physics for Elementary Teachers 4 cr

## II. And complete a Concentration in one of these five content areas (12 cr):

### Concentration in English

Complete 12 credits in ENG courses, approved by the chair of the English Department.

## Concentration in HGEP

*Students wishing to concentrate in HGEP are required to submit a signed contract to the Registrar by the end of their sophomore year. This contract must be approved by both the student's HGEP advisor and the chair of the HGEP Department.*

Complete ONE of these courses:

- ECO 1010 - Economics and Society 3 cr
- ECO 1040 - Global Economic Issues 3 cr

And complete this course:

- HIS 2070 - Vermont History 3 cr

And complete two Electives:

Complete two elective courses at the 3000 level or above in History, Geography, Economics or Political Science. The two courses must be in different disciplines. (HIS 2335 - Asia through Food and Film, may be substituted for one 3000-level class.)

## Concentration in Mathematics

Complete 12 credits in MAT courses, approved by the chair of the Mathematics Department.

## Concentration in Science

Complete 12 additional credits in science chosen from the Life Science and Physical Science lists above.

## Concentration in Special Education Social Science

- PSY 2210 - Applied Behavior Analysis I 3 cr
- PSY 3060 - Child Psychopathology 3 cr
- PSY 4020 - Psychological Testing 3 cr
- SOC 1030 - Social Problems 3 cr

(Credits required for the major: 64-65 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Music (BA.MUS)

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.
- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

All students majoring in music must complete the courses listed below, each with a grade of "C" or better.

They must also demonstrate proof of keyboard skills by passing a piano proficiency test administered by the Music Department.

In their senior year, students are encouraged to complete one of the following activities: perform a major solo in a Department Recital, perform a major solo with a department performance ensemble, or submit a culminating project. *(Note that this does not apply to students with a concentration in Performance or concentration in Musical Theater, as such students perform a Senior Recital.)*

### Complete the following courses (35 cr):

- MUS 1041 - Class Piano I 2 cr
- MUS 1042 - Class Piano II 2 cr
- MUS 1091 - Sight Singing and Ear Training I 1 cr
- MUS 1092 - Sight Singing and Ear Training II 1 cr
- MUS 1120L - Performance Lab 0 cr
- MUS 1231 - Music Theory I 3 cr
- MUS 1232 - Music Theory II 3 cr
- MUS 2020 - Instrumental and Vocal Arranging 3 cr
- MUS 2031 - History of Western Music: Ancient to Baroque 3 cr
- MUS 2032 - History of Western Music: Classical to Modern 3 cr
- MUS 2051 - Conducting I 3 cr
- MUS 2052 - Conducting II 3 cr
- MUS 3015 - Music Theory and Aural Skills III 4 cr
- MUS 4015 - Music Theory and Aural Skills IV 4 cr

And complete a minimum of 7 semesters in Applied Music in the primary applied area (a minimum of 1 credit each semester: 7 cr)

And complete 7 credits in Ensemble participation chosen from:

- MUS 1210 - Chorus: University Chorale 0-1 cr (1 credit each semester)
- MUS 1220 - Wind Ensemble 0-1 cr (1 credit each semester)
- MUS 1230 - Jazz Ensemble 0-1 cr (guitar, bass, piano, 1 credit each semester)
- Or an equivalent experience approved by the department *a priori*.

(Credits required for the major: 49 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Music Education (BM.EDU)

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.

- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

Music Education Majors must complete the BA.MUS requirements, and complete the following courses with a grade of "C" or better:

### Complete all of these courses (39 cr):

- MUS 1080 - Global Music 3 cr
- MUS 1090 - Foundations of Music Education 3 cr
- MUS 1520 - Spartan Marching Band 0-1 cr (1 cr required)
- MUS 2030 - Early Field Experience in Music Education 1 cr
- MUS 2060 - Introduction to Exceptional Populations in Music Education 3 cr
- MUS 2110 - Vocal Pedagogy 2 cr
- MUS 2115 - Jazz Pedagogy 2 cr
- MUS 3165 - Methods of Teaching General Music preK-12 3 cr
- MUS 3166 - Methods of Teaching Choral Music 2 cr
- MUS 3250 - Assessment of Musical Experiences 3 cr
- MUS 3315 - Methods of Teaching Instrumental Music 2 cr
- MUS 4610 - Seminar in Teaching Music 1 cr
- MUS 4720 - Senior Recital 1 cr
- MUS 4871 - Directed Student Teaching I 6 cr
- MUS 4872 - Directed Student Teaching II 6 cr

And, in consultation with a music education advisor, complete 3 of the following courses (6 cr):

- MUS 2120 - String Instrument Teaching Methods 2 cr
- MUS 2130 - Woodwind Instrument Teaching Methods 2 cr
- MUS 2140 - Brass Instrument Teaching Methods 2 cr
- MUS 2240 - Percussion Instrument Teaching Methods 2 cr

And complete one of the following courses (3 cr):

- PSY 1050 - Human Growth and Development 3 cr
- PSY 2110 - Educational Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

Credits required for the major: 48 (BM in Music Education) + 49 (BA in Music) = 97 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## To be accepted into Student Teaching, the student must:

- Achieve an overall GPA of 3.0; or written certification of intellectual competence by an academic dean.
- Complete all Music and Music Education coursework; or obtain permission of the supervising music education faculty.
- Complete the Music Education Application to Student Teach form.
- Pass the Praxis Core Academic Skills Test for Educators and appropriate Praxis II examinations before teaching.

NOTE: The State of Vermont may require a specific Praxis II music test in the future (currently either of the two music education exams is accepted).

- Complete a minimum of 60 scheduled hours of field experience through related course work.

NOTE: A student may be denied admission to student teach if, in the professional judgment of the music education faculty, the student does not possess the maturity, judgment, ethical standards, and dedication expected in the teaching profession.

## To be recommended for licensure the student must:

- Complete all university and departmental course requirements.
- Pass the Praxis Core Academic Skills Test for Educators and the Praxis II examination.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Receive a grade of "B" or better in Student Teaching I, II, and Student Teaching Seminar.
- Complete all coursework with a cumulative GPA of 3.0

NOTE: A student may be advised to discontinue the student teaching experience at any time if, in the professional judgment of the university supervisor, the director of field experience and cooperating teacher, the student does not possess the attitudes and competencies noted above.

## **Music: Musical Theater (BA.MUS.MTH)**

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.
- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

All students majoring in music must complete the courses listed below, each with a grade of "C" or better.

They must also demonstrate proof of keyboard skills by passing a piano proficiency test administered by the Music Department.

## Complete the following courses (49 cr):

- MUS 1041 - Class Piano I 2 cr
- MUS 1042 - Class Piano II 2 cr
- MUS 1091 - Sight Singing and Ear Training I 1 cr
- MUS 1092 - Sight Singing and Ear Training II 1 cr



- MUS 1115 - Musical Pit/Vocal **0-1 cr** Take for 4 semesters @ 1 cr each (4 cr total)
- MUS 1120L - Performance Lab **0 cr**
- MUS 1231 - Music Theory I **3 cr**
- MUS 1232 - Music Theory II **3 cr**
- MUS 2020 - Instrumental and Vocal Arranging **3 cr**
- MUS 2031 - History of Western Music: Ancient to Baroque **3 cr**
- MUS 2032 - History of Western Music: Classical to Modern **3 cr**
- MUS 2051 - Conducting I **3 cr**
- MUS 2052 - Conducting II **3 cr**
- MUS 3015 - Music Theory and Aural Skills III **4 cr**
- MUS 4015 - Music Theory and Aural Skills IV **4 cr**
- MUS 4720 - Senior Recital **1 cr**
- THA 2121 - Acting I **3 cr**
- THA 2122 - Acting II **3 cr**
- THA 2160 - History of Musical Theater **3 cr**

And complete a minimum of 7 semesters in Applied Music in the primary applied area (a minimum of 1 credit each semester: 7 cr)

And complete 7 credits in Ensemble participation chosen from:

- MUS 1210 - Chorus: University Chorale **0-1 cr** (1 credit each semester)
- MUS 1220 - Wind Ensemble **0-1 cr** (1 credit each semester)
- MUS 1230 - Jazz Ensemble **0-1 cr** (guitar, bass, piano, 1 credit each semester)
- Or an equivalent experience approved by the department *a priori*.

(Credits required for the major: 63 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Music: Performance (BA.MUS.PER)**

Students completing their baccalaureate degree in Music will:

- Demonstrate technical proficiency and artistry on their primary instrument or voice.
- Effectively teach music in a variety of areas such as applied instruction, classroom education and ensemble direction.
- Understand music in depth through the study of music literature, history, theory and research.
- Enrich their community through music performance, education and/or scholarly activity.

All students majoring in music must complete the courses listed below, each with a grade of "C" or better.

They must also demonstrate proof of keyboard skills by passing a piano proficiency test administered by the Music Department.

## Complete the following courses (35 cr):

- MUS 1041 - Class Piano I 2 cr
- MUS 1042 - Class Piano II 2 cr
- MUS 1091 - Sight Singing and Ear Training I 1 cr
- MUS 1092 - Sight Singing and Ear Training II 1 cr
- MUS 1120L - Performance Lab 0 cr
- MUS 1231 - Music Theory I 3 cr
- MUS 1232 - Music Theory II 3 cr
- MUS 2020 - Instrumental and Vocal Arranging 3 cr
- MUS 2031 - History of Western Music: Ancient to Baroque 3 cr
- MUS 2032 - History of Western Music: Classical to Modern 3 cr
- MUS 2051 - Conducting I 3 cr
- MUS 2052 - Conducting II 3 cr
- MUS 3015 - Music Theory and Aural Skills III 4 cr
- MUS 4015 - Music Theory and Aural Skills IV 4 cr

## And complete a minimum of 14 credits in Applied Music in the primary applied area (a minimum of 2 credits each semester)

- MUS 3243 - Applied Performance - Flute 2 cr
- MUS 3253 - Applied Performance - Oboe 2 cr
- MUS 3263 - Applied Performance- Bassoon 2 cr
- MUS 3273 - Applied Performance- Clarinet 2 cr
- MUS 3313 - Applied Performance- Saxophone 2 cr
- MUS 3323 - Applied Performance- Trumpet 2 cr
- MUS 3333 - Applied Performance- French Horn 2 cr
- MUS 3343 - Applied Performance- Trombone 2 cr
- MUS 3353 - Applied Performance- Tuba 2 cr
- MUS 3363 - Applied Performance- Percussion 2 cr
- MUS 3373 - Applied Performance- Violin 2 cr
- MUS 3383 - Applied Performance- Jazz Piano 2 cr
- MUS 3413 - Applied Performance- Viola 2 cr
- MUS 3423 - Applied Performance- Cello 2 cr
- MUS 3433 - Applied Performance- String Bass 2 cr
- MUS 3443 - Applied Performance- Piano 2 cr
- MUS 3453 - Applied Performance- Electric Guitar 2 cr
- MUS 3463 - Applied Performance- Classical Guitar 2 cr
- MUS 3473 - Applied Performance- Voice 2 cr
- MUS 3483 - Applied Performance- Electric Bass 2 cr
- MUS 3493 - Applied Performance- Euphonium 2 cr

## And complete 7 credits in Ensemble participation chosen from:

- MUS 1210 - Chorus: University Chorale 0-1 cr (1 credit each semester)
- MUS 1220 - Wind Ensemble 0-1 cr (1 credit each semester)

- MUS 1230 - Jazz Ensemble **0-1 cr** (guitar, bass, piano, 1 credit each semester)
- Or an equivalent experience approved by the department *a priori*.

And complete these courses (4 cr):

Take 1 of these:

- MUS 3283 - Collaborative Piano **1 cr** (take for 2 semesters: 2 cr total)  
**OR** MUS 3743 - Advanced Applied Performance Coaching **1 cr** (take for 2 semesters: 2 cr total)

And take both of these:

- MUS 3420 - Junior Recital **1 cr**
- MUS 4720 - Senior Recital **1 cr**

And, in consultation with your advisor, complete 5 additional credits, selected from:

- MUS 2110 - Vocal Pedagogy **2 cr**
- MUS 2120 - String Instrument Teaching Methods **2 cr**
- MUS 2130 - Woodwind Instrument Teaching Methods **2 cr**
- MUS 2140 - Brass Instrument Teaching Methods **2 cr**
- MUS 2240 - Percussion Instrument Teaching Methods **2 cr**
- MUS 3180 - Music Literature Seminar **3 cr**
- MUS 3275 - Diction for Singers **3 cr**

(Credits required for the major: 65 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Nursing: Bachelors (BS.NUR)**

This baccalaureate program, designed for students who wish to pursue pre-licensure baccalaureate education, is approved by the Vermont State Board of Nursing and accredited by the Commission on Collegiate Nursing Education. Students are admitted directly into the major and enroll in their first nursing course in the fall of the second year. Upon successful completion of all degree requirements, graduates are eligible to complete the National Council Examination for Registered Nursing (NCLEX-RN) and to seek advanced study in the discipline. Full-time enrollment will result in a Bachelor of Science degree with a major in Nursing in four years.

**Admission Criteria:** *In addition to the university's general admission requirements, admission to the BS.NUR program is selective and based on the following criteria:*

1. Minimum SAT scores of 500 in each of the critical reading and math sections. (ACT=21).
2. Graduation from high school with a minimum 3.0 GPA.
3. Evaluation of prior post-secondary course work.
4. Nursing faculty approval.

Students matriculating into any nursing program are required to undergo a criminal background check and drug screen after acceptance into the program and prior to enrollment. Final acceptance to the program is conditioned upon a satisfactory check. Additional checks and/or screenings may also be required by a specific clinical affiliation site. The cost of any background check will be paid by the student.

**Students who complete the Bachelor of Science in Nursing program will:**

- Synthesize knowledge from liberal education, contemporary nursing science, health-related science, and the humanities in the practice of professional nursing.
- Apply theories and principles of leadership and management to provide safe, quality, evidence-based care for patients across the life span and continuum of care as a member of an interdisciplinary team.
- Apply the best current evidence, coupled with clinical expertise and consideration of patients' preferences, experiences, and values to make practice decisions.
- Use current patient care technologies and information systems to communicate, manage knowledge, mitigate error, and support decision-making in the delivery of quality care to individuals, families, groups, and populations.
- Integrate knowledge of healthcare policy, finance, regulatory agencies, and healthcare trends with professional role behavior.
- Interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision-making to enhance patient satisfaction and health outcomes.
- Advance the use of the nursing process to promote health, prevent disease, and enhance the holistic health and well-being of diverse individuals, families, groups, and populations.
- Provide patient-centered care based upon ethical principles, behaviors, and values that include altruism, autonomy, human dignity, integrity, and social justice in the professional practice of nursing across the continuum of health care.
- Promote the resolution of complex health problems by serving as advocates, leaders, managers, and members of the nursing profession when working with individuals, families, groups, populations, and health team members across the continuum of healthcare.

## Required Courses:

**Note: All nursing and science courses must be passed with a "B-" or better**

- BIO 1030 - Introduction to Nutrition **3 cr** (See CCV course listings)
- MAT 1350 - Statistics and Health **3 cr**
- PSY 1012 - Introduction to Psychological Science **3 cr**
- PSY 1050 - Human Growth and Development **3 cr**
- SOC 1010 - Introduction to Sociology **3 cr**
- BIO 2011 - Human Anatomy and Physiology I **4 cr**
- BIO 2012 - Human Anatomy and Physiology II **4 cr**
- BIO 2125 - Fundamentals of Microbiology **4 cr**
- NUR 1030 - Introduction to Professional Nursing **3 cr**
- NUR 2012 - Health Assessment **3 cr \***
- NUR 2035 - Fundamentals of Nursing Practice **7 cr \***
- NUR 2050 - Pharmacology for Nurses **3 cr**
- NUR 2510 - Evidence-Based Practice in Nursing **3 cr**
- NUR 3040 - Pathophysiology **3 cr**
- NUR 3060 - Nursing Care of Adults **8 cr \***
- NUR 3065 - Nursing Informatics **3 cr**
- NUR 3070 - Care of Clients with Mental Health Problems **5 cr \***

- NUR 3075 - Community Health Nursing 6 cr \*
  - PHI 3020 - Medical Ethics 3 cr
  - NUR 4025 - Care of Childbearing and Childrearing Families 8 cr \*
  - NUR 4030 - Management and Leadership in Nursing 3 cr \*
  - NUR 4610 - Healthcare Policy, Finance and Regulation 3 cr
  - NUR 4615 - Transition to Professional Nursing Practice 3 cr
  - NUR 4810 - Patient Care Management Capstone 8 cr \*
- \*Requires application of new knowledge in the practice setting

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### Total credits:

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| Total General Education requirements to graduate with a Bachelor's Degree:   | 42 cr         |
| Less: General Education requirements already satisfied by the BS.NUR program | <u>-19 cr</u> |
| <b>Remaining General Education requirements:</b>                             | <b>23 cr</b>  |
| Plus: subtotal of credits required by the BS in Nursing degree               | <u>+99 cr</u> |
| <b>Total credits required to obtain a BS in Nursing degree:</b>              | <b>122 cr</b> |

## Program Notes

### Internal Transfer

Students enrolled in other academic programs within the university are eligible for consideration for internal transfer into nursing. Details regarding the application process are available from the Nursing Department upon request. The selection process takes place at the end of the fall semester. The most qualified applicants will be accepted on a space available basis. The following criteria must be met in order to be considered for admission into a nursing program:

1. A minimum GPA of 2.8
2. A minimum 9-credit load in the prior semester, or semester of the application
3. Submission of a complete application prior to the designated deadline
4. Approval by the Nursing Department student affairs committee

### Fees

Some nursing courses require payment of a laboratory fee. For a summary of these fees please consult individual course descriptions. All nursing students are required to buy an identification badge. Generic nursing students are also expected to have a working watch with a second hand and to purchase uniforms, a lab coat, nursing shoes, stethoscope, and bandage scissors.

### Clinical and Lab Requirements

Several nursing courses require clinical and lab components taught by nursing faculty either on campus in the Virtual Hospital or in hospitals and other health agencies.

The BS clinical capstone course includes the use of practice-based preceptors who partner with faculty to facilitate learning. Faculty have ultimate responsibility for the evaluation of student learning.

All RN-BS students must remain licensed while enrolled in the program.

All RN-BS students are expected to cover the cost and provide their own transportation to assigned clinical agencies.

### **Unsatisfactory Health, Performance, or Behavior**

The Nursing Department reserves the right to request that the Chief Academic Officer require withdrawal from the nursing program of any student whose health, academic record, performance, and/or behavior in nursing is judged unsatisfactory. Unsatisfactory performance in the clinical environment negates academic grade performance.

## Licensure

According to the Vermont State Board of Nursing: (State of Vermont Board of Nursing Title 26 V.S.A.): "The Board may deny an application for registration, licensure or relicensure; revoke or suspend any license to practice nursing issued by it; discipline or in other ways condition the practice of registrant or licensee upon due notice and opportunity for hearing in compliance with the provisions of chapter 25 of Title 3, if the person:

1. Has made or caused to be made a false, fraudulent or forged statement or representation in procuring or attempting to procure registration or renew a license to practice nursing;
2. Whether or not committed in this state, has been convicted of a crime related to the practice of nursing or a felony which evinces an unfitness to practice nursing;
3. Is unable to practice nursing competently by reason of any cause;
4. Has willfully or repeatedly violated any of the provisions of this chapter;
5. Is habitually intemperate or is addicted to the use of habit-forming drugs.
6. Has a mental, emotional or physical disability, the nature of which interferes with ability to practice nursing competently; or
7. Engages in conduct of a character likely to deceive, defraud or harm the public."

## Accreditation

The baccalaureate degree in nursing at Castleton University is accredited by the Commission on Collegiate Nursing Education, 1 Dupont Circle, NW, Suite 530, Washington, DC 20036, (202) 887-6791. The program is also approved by the Vermont Board of Nursing.

## **Nursing: RN to BS (BS.NUR.RN)**

Each student for the RN to BS Completion Program will be considered individually as a transfer student and must meet the Castleton University BS Degree Requirements before graduation, including the General Education requirements and the total minimum degree requirements of 122 credits. For this reason, the time and number of credits for program completion may vary. All candidates licensed as registered nurses will be awarded a minimum of 34 credits toward a BS degree.

Admissions requirements for this program include: BIO 2011 - Human Anatomy and Physiology I, BIO 2012 - Human Anatomy and Physiology II, and BIO 2125 - Fundamentals of Microbiology (or their equivalents) in addition to an unencumbered RN license in the United States. In recognition of the diversity of backgrounds students in this program possess, transferable grades in these courses will serve as prerequisites, where appropriate, for subsequent nursing courses.

## Required Courses:

**Note: All nursing and science courses must be passed with a "B-" or better**

- MAT 1350 - Statistics and Health 3 cr
- NUR 2012 - Health Assessment 3 cr \*
- NUR 2050 - Pharmacology for Nurses 3 cr
- NUR 2510 - Evidence-Based Practice in Nursing 3 cr
- NUR 3010 - Health Promotion and Protection 3 cr
- NUR 3020 - RN Transition to Professional Nursing Practice 2 cr
- NUR 3040 - Pathophysiology 3 cr
- NUR 3065 - Nursing Informatics 3 cr
- NUR 3075 - Community Health Nursing 6 cr \*
- NUR 4010 - Family Health Nursing 3 cr \*
- NUR 4030 - Management and Leadership in Nursing 3 cr \*
- NUR 4610 - Healthcare Policy, Finance and Regulation 3 cr
- PHI 3020 - Medical Ethics 3 cr
- PSY 1050 - Human Growth and Development 3 cr

\*Requires clinical study outside the classroom

and complete one of the following courses:

- BIO 1030 - Introduction to Nutrition 3 cr
- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SOC 2230 - Death And Dying 3 cr

Subtotal of credits required: 47 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Program Notes

### Fees

Some nursing courses require payment of a laboratory fee that is included in the individual course descriptions.

### Practice Setting Requirements

All nursing students are expected to cover the cost and provide their own transportation to assigned clinical agencies.

All RN-BS students must have an unencumbered RN license in the State of Vermont and in any other state where clinical experiences occur.

### Unsatisfactory Health, Performance, or Behavior

The Nursing Department reserves the right to request that the Academic Dean require withdrawal from the nursing program of any student whose health, performance, or behavior is judged unsatisfactory.

## Accreditation

The baccalaureate degree in nursing at Castleton University is accredited by the Commission on Collegiate Nursing Education, 1 Dupont Circle, NW, Suite 530, Washington, DC 20036, (202) 887-6791. The program is also approved by the Vermont Board of Nursing.

## Philosophy (BA.PHI)

The purpose of the Philosophy Program is to provide a foundation in philosophy and its highly effective skills of reasoning. Philosophy is the study of problems about the nature of reality, knowledge, and value. The questions of philosophy and the attempts to solve them, as presented in the writings of many of the world's most valued thinkers, constitute the core of the human drive to understand ourselves and our place in the world. Students can study major philosophical figures: Plato, Aristotle, St. Thomas Aquinas, Descartes, Kant, Mill, Nietzsche, Sartre, Wittgenstein, Quine, and more. The curriculum also introduces them to major philosophical and religious traditions: metaphysical dualism, materialism, nihilism, theism, existentialism, Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, and Confucianism.

At the same time, Philosophy trains its students to think more clearly and critically. That concentrated training in critical thinking is one of the best preparations for entry into any professional career. Many philosophy majors go into education in order to teach and do continued research in philosophy; but many more use philosophy as preparation for careers in the law, medicine, business, communication, and the arts. Those are increasingly common careers for philosophy majors.

Educational Objectives:

1. The student will read philosophical works with understanding and critical reflection.
2. The student composes an exposition of a philosophical problem or position describing how it is addressed by two to three philosophers from different historical periods.
3. The student engages in philosophic discourse by asking questions and offering responses that indicate understanding of a position's implications and presuppositions.

Complete these required courses (9 cr):

- PHI 3011 - History of Philosophy I 3 cr
- PHI 3012 - History of Philosophy II 3 cr
- PHI 4510 - Seminar in Philosophy 3 cr
- OR PHI 4620 - Senior Thesis in Philosophy 3 cr

and complete 9 additional Philosophy courses (27 cr)

(Credits required for the major: 36 cr)

And complete the university's Gen Ed requirements



Review the Gen Ed requirements.

## PHILOSOPHY PRE-LAW PATHWAY

The Pre-Law Program in Philosophy allows highly focused students to earn a Bachelor's degree in Philosophy in just three years at CU and then a Juris Doctor (JD) degree in just two years at Vermont Law School

*To be prepared to succeed in law school, Philosophy majors should follow this course of study:*

Complete these core courses (15 cr):

PHI 1020 - Critical Thinking

PHI 1030 - Introduction to Logic

PHI 3011 - History of Philosophy I

PHI 3012 - History of Philosophy II

PHI 4510 - Seminar in Philosophy -OR- PHI 4620 - Senior Thesis in Philosophy

And complete any three of these electives (9 cr):

PHI 1040 - Introduction to Ethics

PHI 2120 - Social and Political Philosophy

PHI 2740 - Selected Topics in Philosophy

PHI 3020 - Medical Ethics

PHI 3160 - Environmental Ethics

(or-with the approval of your PHI advisor-any other applied ethics/philosophy course)

And complete four additional Philosophy courses (12 cr)

*To participate in the 3+2 program, students must consult in their first year with the Philosophy Coordinator, Professor Brendan Lalor.*

*For more details about the Pre-Law program, see the Law Degree page.*

## Political Science (BA.POS)

Upon completion of the Political Science major, students will be able to demonstrate knowledge and understanding of:

1. The basic analytical concepts and theories of the discipline of Political Science.
2. The institutions of American politics and government and how they function.
3. American political culture and political behavior.
4. The political systems of other nations, including their political institutions, processes, culture, and behavior.
5. Global politics, international institutions, and global issues.

6. Political philosophies, theories, and ideologies and their significance to political life.
7. The skills and methodologies appropriate for research in Political Science.

## Required Courses:

All majors must complete a minimum of 48 credits: 39 credits in Political Science and 9 credits from related disciplines. The 39 credits in Political Science must include:

- POS 1020 - American Politics and Government 3 cr
- POS 1030 - Comparative Politics and Government 3 cr
- POS 2040 - International Relations 3 cr
- POS 2510 - Research Methods 3 cr
- POS 3221 - Political Philosophy I 3 cr
- POS 3222 - Political Philosophy II 3 cr
- POS 3420 - Congress and The Presidency 3 cr
- POS 3510 - Quantitative Analysis 3 cr (*note that MAT 2021 - Statistics I is a prerequisite for POS 3510*)
- POS 4610 - Senior Seminar in Political Science 3 cr
- plus four additional Political Science courses 12 cr
- and 9 credits in the related disciplines of Economics, Environmental Studies, Geography, Global Studies and/or History 9 cr

(Credits required for the major: 48 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Law Degree (CU/VLS 3+2)

This major participates in the 3+2 program with Vermont Law School, in which highly-focused students can earn a Bachelor's degree in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS.

For details, see the Law Degree page.

## Practice in Physical Education (BS.PPE/BS.PPE.ESE)

The Department of Health, Human Movement, & Sport offers the degree in the practice of Physical Education with concentrations in elementary and secondary education (BS.PPE.ESE) or without licensure (BS.PPE). The department makes a strong commitment towards a standards-based approach to the development of beginning educators.

The Department of Health, Human Movement, & Sport holds high expectations for their students' effort and behavior. As a result of this teacher educator program, students are expected to demonstrate a variety of goals, including, but not limited to;

1. The ability to organize, develop, implement, and evaluate a physical education program (Pre-K-12 curriculum, athletic programs, health fitness programs)
2. The recognition and incorporation of safety, risk management, and liability considerations in physical education programs.
3. The ability to develop and implement an assessment plan consistent with national and/or state standards.

4. The ability to develop accommodations for physical education program to meet the needs of all individuals. This includes an understanding of applicable laws, policies, and procedures.

In addition, each student choosing to become a teacher is responsible for developing a portfolio. The portfolio is constructed during all semesters of the undergraduate experience. The portfolio will demonstrate individual learning and growth as well as how the individual course work and field experiences work together to foster proficiency in meeting Vermont State regulations and standards for teacher preparation.

Courses within the department and at field experiences in local schools and community organizations focus on the skill, knowledge, and understanding necessary to be successful in contemporary educational settings. Field practical experiences are those in which the student becomes part of a collaborative relationship in a school and/or community setting. They are an integral part of the teacher education experience. The role of the student becomes more complex as students advance in their program, which culminates in a semester-long student teaching experience. A minimum of 80 scheduled hours of field experience is required prior to student teaching.

Physical Education Teacher Education students are introduced to theory and practice of physical education beginning in their first year of study within the teaching major. The electronic portfolio process will allow students to demonstrate and assess their process towards the goals of the physical education teacher education program.

Two beginning-level pedagogy courses, PED 2420 - Foundations of Teaching Health and Physical Education, and PED 2410 - Curriculum and Instruction in Physical Education incorporate the production of evidence indicated by the Level I Licensure Portfolio. Two intermediate level pedagogy courses, PED 3070 - Methods of Teaching Elementary Physical Education, and PED 3140 - Methods of Teaching Secondary Physical Education incorporate additional portfolio requirements.

Between the student's first year until the semester leading up to student teaching, gateways will be used to assess teacher candidate progress through the program. Upon successful completion of PED 2420 and PED 2410, students must satisfy the requirements of Physical Education Gateway I before proceeding with PED 3070 and PED 3140.

Requirements for Physical Education Gateway I include:

- Receive a positive recommendation encouraging continuation in the program;
- Earn a cumulative GPA of 2.75;
- Earn a minimum within the major GPA of 2.75;
- Complete a minimum of 14 credits of 2000 and/or 3000 level course work within the Physical Education core;
- Make progress towards completion of the General Education Program;
- Submit electronic portfolio evidence completed in PED 2420 and PED 2410 that demonstrates progress in the student's understanding of an effective teaching and learning environment, and evidence of a commitment to one's personal development as a future professional;
- Pass the Praxis Core Academic Skills Test for Educators or meet the alternative requirements.

Following completion of Gateway I, the program's emphasis will be on completing the requirements of the physical education major as well as honing pedagogical expertise in the field as well as the classroom. The Methods of Elementary Physical Education and the Methods of Secondary Physical Education courses will provide students with the opportunity to gain additional learning experiences using field-based inquiry, reflection, and analysis. Prospective teacher candidate will also continue to build their electronic portfolios by providing evidence that documents their understanding of the central connections between content and pedagogy.

Upon completion of Physical Education Gateway II, students may be accepted into the student teaching practicum. These Gateway II benchmarks are as follows;

- Complete the department's application to student teach the semester before enrolling in student teaching;
- Pass the first portion of their electronic portfolio, which includes evidence indicated by the Department of Health, Human Movement, & Sport;

- Have completed all physical education major and general education coursework; or, obtain permission from the Teacher Education Program Coordinator.
- Earn a cumulative GPA of 3.0 and earn a GPA of 3.0 within the physical education major; or written certification of intellectual competence by an academic dean;
- Receive a recommendation from members of the faculty to continue in the teacher education program.
- Through related coursework, complete a minimum of 80 hours of supervised field experience.
- Pass any additional teaching motor skills competency tests as required by the Department of Health, Human Movement, & Sport.
- Pass the Praxis Core Academic Skills Test for Educators;
- Pass the ETS Praxis II Physical Education content exam; if the student does not pass the Praxis II examination for physical education, the physical education program coordinator may permit the student to develop and submit a written plan outlining the strategies by which he or she intends to strengthen content area. This plan must be approved by the physical education program coordinator.

## Complete the Physical Education core (59 cr):

### complete one of these courses:

- PSY 1050 - Human Growth and Development 3 cr
- PSY 2110 - Educational Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

### and complete all of these courses:

- PED 1015 - Introduction to Health and Physical Education 3 cr
- PED 1610 - Concepts of Fitness and Skill Performance 2 cr
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- PED 2420 - Foundations of Teaching Health and Physical Education 3 cr
- PED 2320 - Motor Learning 3 cr
- AHS 2150 - Designs for Fitness 3 cr
- DAN 2020 - Teaching Rhythms And Dance 2 cr
- OER 1211 - Adventure Education – Low Elements 2 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2260 - Gymnastics/Stunts and Tumbling 1 cr
- PED 2020 - Teaching Games and Movement 1 cr \*
- PED 2410 - Curriculum and Instruction in Physical Education 3 cr \*
- AHS 3120 - Kinesiology 3 cr \*
- AHS 3150 - Physiology of Exercise 4 cr \*
- PED 3135 - Teaching Individual Sport Skills 3 cr
- PED 3220 - Teaching Net and Racquet Sports 3 cr
- PED 3320 - Teaching Team Motor Skills 3 cr
- PED 3110 - Adapted Physical Education 3 cr \*
- PED 4030 - Organization and Administration of Physical Education and Athletics 3 cr

\*indicates prerequisite course required.

## Other Requirements:

Prior to graduation, students must show competency in swimming, CPR, and first aid. First aid and CPR competency may be shown through participating in Red Cross programs and earning a CPR card or Advanced First Aid card.

Swimming competency may be demonstrated through an Intermediate-level swimming instructor card, proper life-guarding credentials, and/or passing a Castleton University-administered swim exam. Students may also elect to take the following courses to meet those requirements:

- PED 2010 - Beginning Swimming **1 cr**
- PED 2160 - Emergency Care and Personal Safety **3 cr**

## Teaching Option

Students wishing to work towards teacher licensure in K-12 Physical Education must apply and be accepted into Physical Education Gateway II, must apply and be accepted into the student teaching practicum, and, complete the PETE program requirements.

- PED 3070 - Methods of Teaching Elementary Physical Education **4 cr**
- PED 3140 - Methods of Teaching Secondary Physical Education **4 cr**
- PED 4871 - Directed Student Teaching In Physical Education I **6 cr**
- PED 4872 - Directed Student Teaching in Physical Education II **6 cr**
- PED 4720 - Seminar in Teaching Physical Education **1 cr**

## K-12 Teacher Licensure:

To be recommended for licensure by the State of Vermont, a student must:

- a. Successfully complete and graduate from an approved program.
- b. Receive a grade of "B" or better in Student Teaching I and Student Teaching II and a "pass" in PED 4720.
- c. Maintain a GPA of 3.0 and a B average (GPA of 3.0) in the field of major studies.
- d. Meet the required standard for the licensure portfolio.
- e. Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- f. Beginning in October of 2004, pass Praxis II examination in physical education content knowledge, multiple choice or constructed responses essay.  
(Test code: 0092) (Test code: 0091)

## Psychology (BA.PSY)

Graduates of the Bachelor of Arts program in Psychology will be able to:

1. Read, understand, and critique the classic and contemporary research literature.
2. Design, conduct, analyze, interpret, and successfully present scientific research.
3. Speak and write effectively in the discourse of the discipline.
4. Evaluate their own unique interests, abilities, career, and life goals.
5. Pursue advanced graduate training and/or careers in human services.

*All required psychology courses must be completed with a grade of 2.0 or better.*

## Complete the following courses (26 cr):

- PSY 1012 - Introduction to Psychological Science **3 cr**
- PSY 1050 - Human Growth and Development **3 cr**
- PSY 3010 - Theories of Personality **3 cr**

- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr
- and complete one 4000-level PSY course or seminar 3 cr

And complete:

a minimum of two Psychology electives (6 cr)

OR

one of these Concentrations in Psychology:

- Psychology: Developmental (BA.PSY.DEV)
- Psychology: Forensic (BA.PSY.FOR)
- Psychology: Health (BA.PSY.HLT)

Total credits required for the major (without a concentration): 32 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

## **Psychology: Agency (BA.PSY.AGY)**

### **BA in Psychology with a Concentration in Agency**

This concentration is designed for students who are interested in developing their psychology knowledge and skills by getting involved in the local community as professional social scientists. This concentration produces graduates who are generally skilled in conscientiousness, communication, leadership, and teamwork—skills highly valued by most employers, inside and outside the field of psychology. Students interested in acquiring the skills and experience that can only come from hands-on practice are encouraged to concentrate in this area. Experiences provided in this concentration are powerful evidence of a student's preparation for graduate study or employment. In addition, this concentration provides an excellent foundation for the Certificate in Civic Engagement.

**Students intending to concentrate in Agency must apply in writing to the Psychological Sciences Department Chairperson for acceptance.**

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

Complete the following courses required of all Psychology majors (23 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

and complete these courses for the Concentration in Agency (18 cr):

- PSY 2210 - Applied Behavior Analysis I 3 cr
- PSY 2212 - Applied Behavior Analysis II 3 cr
- PSY 3820 - Psychology Proctorship 3 cr
- PSY 4421 - Psychology Practicum I 3 cr
- PSY 4422 - Psychology Practicum II 3 cr
- One 3-credit Civic Engagement course from outside the Psychological Sciences Department 3 cr

(Credits required for the major: 41 cr)

The following courses are recommended for this concentration:

- PSY 2040 - Social Psychology 3 cr
- PSY 4810 - Internship in Psychology 1-12 cr

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

Agency concentration students are encouraged to earn the Certificate of Civic Engagement

Read about the Certificate of Civic Engagement.

**Psychology: Developmental (BA.PSY.DEV)**

## BA in Psychology with a Concentration in Developmental Psychology

This concentration is designed for students who have a particular interest in child and adolescent psychology. Students who intend to pursue graduate training in Developmental Psychology, Counseling Psychology, or School Psychology are encouraged to take this concentration. Students seeking licensure in Elementary Education or Special Education may also choose this concentration if they have obtained a passing score on the PRAXIS II licensure exam. It is recommended that the student take this exam at the end of their first year.

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

Complete the following courses required of all Psychology majors (23 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

and complete these courses for the Concentration in Developmental Psychology (15 cr):

Complete at least one of these courses:

- PSY 2110 - Educational Psychology 3 cr
- PSY 2210 - Applied Behavior Analysis I 3 cr

and complete both of these courses:

- PSY 3150 - Cognitive Development 3 cr
- PSY 3240 - Social Development 3 cr

and complete at least one of these courses:

- PSY 3060 - Child Psychopathology 3 cr
- PSY 3220 - Juvenile Delinquency 3 cr

and complete at least one of these courses:

- PSY 4020 - Psychological Testing 3 cr
- PSY 4030 - Language and Thought 3 cr
- PSY 4050 - Nature and Nurture 3 cr

(Credits required for the major: 38 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.



Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

## **Psychology: Forensic (BA.PSY.FOR)**

### **BA in Psychology with a Concentration in Forensic Psychology**

This concentration focuses attention on applications of psychological research and theory to the judicial process including: courts, law enforcement, corrections, probation and parole, and the general practice of law.

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

### **Complete the following courses, required of all PSY majors (23 cr):**

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

### **and complete these courses for the Concentration in Forensic Psychology (18 cr):**

- PSY 2040 - Social Psychology 3 cr
- PSY 2150 - Police Psychology 3 cr
- PSY 3160 - Criminal Behavior 3 cr
- PSY 3220 - Juvenile Delinquency 3 cr
- PSY 4020 - Psychological Testing 3 cr
- PSY 4060 - Psychology and Law 3 cr
- In addition, CRJ 1010 - Introduction to Criminal Justice is strongly recommended

**(Credits required for the major: 41 cr)**

### **And complete the university's Gen Ed requirements**

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr

- MAT 2022 - Statistics II 3 cr

## **Psychology: Health (BA.PSY.HLT)**

### **BA in Psychology with a Concentration in Health Psychology**

This concentration is designed for students who have a particular interest in the connections between psychology and health issues. Students who aspire to careers in behavioral medicine, public health, health promotion, epidemiology, clinical health psychology, counseling, allied health fields, or other human service areas are encouraged to follow the guidelines with respect to the required and recommended courses.

*Note that all required psychology courses must be completed with a grade of 2.0 or better.*

### **Complete the following courses required of all Psychology majors (23 cr):**

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr

### **and complete these courses for the Concentration in Health Psychology (15 cr):**

Complete these four courses:

- PSY 2170 - Drugs and Behavior 3 cr
- PSY 2280 - Positive Psychology 3 cr
- PSY 3070 - Abnormal Psychology 3 cr
- PSY 3130 - Health Psychology 3 cr

and complete at least one of these courses:

- PSY 4020 - Psychological Testing 3 cr
- PSY 4320 - Advanced Research 3 cr
- a 4000-level seminar with related content approved by the Chair (e.g. a special topic such as Eating Disorders, Addictions, or Chronic Illness and Disabilities)

**(Credits required for the major: 38 cr)**

### **The following courses are recommended for this Concentration:**

- AHS 3150 - Physiology of Exercise 4 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- PHI 3020 - Medical Ethics 3 cr

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Note: These Gen Ed courses are strongly recommended:

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

## Psychology: Honors (BA.PSY.HON)

### The Honors Program

The Honors Program is designed to increase the depth of the superior student's work in the major through closer individual contact with faculty members, a more rigorous academic curriculum, and the performance of individual original research.

Eligibility for department honors work in Psychology is achieved by:

- a. A GPA of 3.0 or better in Psychology and in all overall course work.
- b. Recommendation by at least two faculty members in the Department of Psychological Sciences.
- c. Formal acceptance of the student into the program by the department chair.

Any student eligible for honors and wishing to enter the program should signify the intention to the department chair as soon as possible after the decision to be a Psychology major. The student plans honors work in such a way as best to fulfill individual educational needs. Special attempts are made to integrate psychology with the other disciplines in the liberal arts and sciences. Although each student's program is individually considered, the honors candidate must meet the following requirements:

All required courses must be completed with an average of 3.00 or better.

### Complete the following courses (35 cr):

- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr
- PSY 3010 - Theories of Personality 3 cr
- PSY 3040 - Cognitive Psychology 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- PSY 3410 - Biopsychology 3 cr
- PSY 4320 - Advanced Research 3 cr
- PSY 4920 - Honors Thesis 3 cr

### And complete

a minimum of two Psychology electives (6 cr)

OR

one of these Concentrations in Psychology:

- Psychology: Developmental (BA.PSY.DEV)
- Psychology: Forensic (BA.PSY.FOR)
- Psychology: Health (BA.PSY.HLT)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

A minor in Statistics is strongly recommended

## **Psychology: Major-by-Contract (BA.SSC.PSY)**

This major is for students who want to design a program of study that comprises two academic disciplines, one of which must be Psychology. The contract is designed and signed by the student, a Psychology faculty sponsor, and a faculty sponsor from another complementary discipline (e.g. Economics, Geography, History, Politics, Sociology, Women's and Gender Studies, or another appropriate academic discipline) chosen by the student in consultation with the student's faculty advisor. The program must include at least 30 credits, with at least 18 credits at the upper level. Credits in the major should be balanced between the two selected disciplines. The contract must include an Independent Study or Seminar at the 4000 level, but may include only one Independent Study per discipline.

Normally, the contract should be approved by the time the student has reached the fifth semester or 75 credits. The contract must be reviewed and signed by the student's faculty advisor and the chair of the sponsoring department and ratified by an academic dean. The contract may be reviewed and modified, but any changes must be approved by all parties to the contract. A student may terminate the contract by electing another major.

In addition to the major, students will also complete 12 credits in related work chosen in consultation with the faculty advisor, or a minor of 18-24 credits in a third social science or another appropriate academic discipline. A second major may be substituted for the related work or minor. Approval of the sponsoring department chair is required.

## **Social Studies (BA.SST)**

The major in Social Studies provides students with a strong foundation in teaching secondary Social Studies, enabling them to implement state and national educational standards.

Upon completion of the Social Studies major, students will be able to:

1. Demonstrate a broad store of knowledge of history, geography, economics, politics, and related social sciences.
2. Describe, analyze and explain economic, political, cultural, social and physical systems in the context of time and space.
3. Demonstrate the ability to conduct and present both orally and in writing quality research so as to participate actively in-and foster-the ongoing construction of knowledge.
4. Apply knowledge of Social Studies creatively, and demonstrate a love of learning and a critical awareness of the significance of Social Studies for human well-being.

Complete the following core courses (24 cr):

- HIS 1125 - The Ancient World 3 cr
- HIS 1135 - Global History 3 cr
- HIS 1215 - Survey of Early U.S. History 3 cr
- HIS 1225 - Survey of Modern U.S. History 3 cr
- POS 1020 - American Politics and Government 3 cr
- GEO 2020 - World Regional Geography 3 cr
- ECO 3080 - Foundations of Economics for Secondary Educators 3 cr
- ANT 1010 - Introduction to Cultural Anthropology 3 cr -OR- SOC 1010 - Introduction to Sociology 3 cr

And a two-course capstone sequence (6 cr):

Either:

- POS 2510 - Research Methods 3 cr
- POS 4610 - Senior Seminar in Political Science 3 cr

Or:

- HIS 4601 - History Research Seminar 3 cr
- HIS 4602 - History Thesis Seminar 3 cr

In addition, complete 18 credits in elective courses (18 cr):

The electives must be chosen from History, Geography, Economics, Political Science, Environmental Studies, and/or Global Studies.

The electives must include:

- No more than 3 credits at the 1000 level;
- At least 9 credits at the 3000 level;
- No more than 9 credits in one discipline.

(Credits required for the major: 48 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

Social Studies students are strongly encouraged to:

- study abroad
- study a world language
- take GEO 2210 - Introduction to Geographic Information Systems
- take HIS 2070 - Vermont History
- as part of their Gen Ed program, take PSY 1012 - Introduction to Psychological Science

## **Social Work (BSW.SWK)**

### **Mission Statement**

Consistent with the mission of the University and EPAS (2008) requirements for the Council on Social Work Education, the Baccalaureate Social Work Program's mission is to prepare students to be competent and effective professionals for entry-level professional generalist practice. As one of two BSW programs in a small state and as part of the Vermont State College system, the Program will prepare many of Vermont's BSW level practitioners.

Students will acquire social work knowledge based on a body of knowledge, values and skills of the profession. They will be prepared and encouraged to provide leadership in the development of service delivery systems that promote human rights, and social and economic justice. Students will reflect the profession's core values of service, social justice, the dignity and worth of the person, the importance of human relationships, integrity, competence, human rights, and scientific inquiry.

## **Overview**

The social work program offers a Baccalaureate of Social Work degree (BSW.SWK). The primary mission of the Castleton University Social Work program is to graduate individuals with a commitment to social change and social justice for vulnerable populations in society. The program's mission includes providing access for Vermont students to a professional education and the preparation of competent professionals to staff social service delivery systems in the State of Vermont. The program goals and student learning outcomes are consistent with the accreditation requirements of the Council on Social Work Education. The program complements and integrates the liberal arts and sciences with a professional course of study. The Castleton University Social Work program is designed to provide knowledge, skills and ethics for beginning-level generalist professional practice and the academic preparation for graduate study in social work. Generalist social work practice consists of a common core of knowledge, values, and skills that can be applied across diverse client systems to enhance the social functioning of those systems.

Castleton's BSW graduates are employed in a wide range and variety of agencies and organizations which serve the needs of many different people some of which are: nursing homes, hospices, hospitals, home care agencies, substance abuse programs, mental health services, mental retardation/developmental disabilities services, vocational rehabilitation services, public health agencies, community action agencies, family service agencies, children 38 youth services, family service agencies, aging services, residential treatment programs, child and adult day care centers, domestic violence programs, homeless shelters, criminal justice agencies, schools (elementary and secondary), income maintenance programs, and legal services agencies. The BSW degree also prepares the student for entry into graduate programs. Many Castleton Social Work graduates are granted advanced standing in Master of Social Work programs. Thus, the time to complete the Master of Social Work is shortened by several months.

## **Competencies and Practice Behaviors**

As a program accredited by the Council on Social Work Education, the Castleton University program goals and objectives are consistent with the *Educational Policy and Accreditation Standards* of that organization.

### **Identify as a professional social worker and conduct oneself accordingly.**

- a. Advocate for client access to the services of social work;
- b. Practice personal reflection and self-correction to assure continual professional development;
- c. Attend to professional roles and boundaries;
- d. Demonstrate professional demeanor in behavior, appearance, and communication;
- e. Engage in career-long learning; and
- f. Use supervision and consultation.

### **Apply social work ethical principles to guide professional practice**

- a. Recognize and manage personal values in a way that allows professional values to guide practice;
- b. Make ethical decisions by applying standards of the National Association of Social Workers Code of Ethics<sup>2</sup> and, as applicable, of the International Federation of Social Workers/International Association of Schools of Social Work Ethics in Social Work, Statement of Principles<sup>3</sup>
- c. Tolerate ambiguity in resolving ethical conflicts; and

- d. Apply strategies of ethical reasoning to arrive at principles decisions.

**Apply critical thinking to inform and communicate professional judgments**

- a. Distinguish, appraise, and integrate multiple sources of knowledge, including research-based knowledge, and practice wisdom
- b. Analyze models of assessment, prevention, intervention, and evaluation; and
- c. Demonstrate effective oral and written communication in working with individuals, families, groups, organizations, communities, and colleges.

**Engage diversity and difference in practice**

- a. Recognize the extent to which a culture's structures and values may oppress, marginalize, alienate, or create or enhance privilege and power;
- b. Gain sufficient self-awareness to eliminate the influence of personal biases and values in working with diverse groups;
- c. Recognize and communicate their understanding of the importance of difference in shaping life experiences; and
- d. View themselves as learners and engage those with whom they work as informants.

**Advance human rights and social and economic justice**

- a. Understand the forms and mechanisms of oppression and discrimination;
- b. Advocate for human rights and social and economic justice; and
- c. Engage in practices that advance social and economic justice.

**Engage in research-informed practice and practice-informed research**

- a. Use practice experience to inform scientific inquiry and
- b. Use research evidence to inform practice.

**Apply knowledge of human behavior and the social environment**

- a. Utilize conceptual frameworks to guide the processes of assessment, intervention, and evaluation; and
- b. Critique and apply knowledge to understand person and environment.

**Engage in policy practice to advance social and economic well-being and to deliver effective social work services**

- a. Analyze, formulate, and advocate for policies that advance social well-being; and
- b. Collaborate with colleagues and clients for effective policy action.

**Respond to contexts that shape practice**

- a. Continuously discover, appraise, and attend to changing locales, populations, scientific and technological developments, and emerging societal trends to provide relevant services; and
- b. Provide leadership in promoting sustainable changes in service delivery and practice to improve the quality of social services.

**Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.**

**Engagement: Social workers**

- a. Substantively and effectively prepare for action with individuals, families, groups, organizations, and communities;
- b. Use empathy and other interpersonal skills; and
- c. Develop a mutually agreed-on focus of work and desired outcomes.

**Assessment: Social workers**

- a. Collect, organize, and interpret client data;
- b. Assess client strengths and limitations;
- c. Develop mutually agreed-on intervention goals and objectives; and
- d. Select appropriate intervention strategies.

**Intervention: Social workers**

- a. Initiate actions to achieve organizational goals;
- b. Implement prevention interventions that enhance client capacities;
- c. Help clients resolve problems;
- d. Negotiate, mediate, and advocate for clients; and
- e. Facilitate transitions and endings.

**Evaluation: Social workers**

- a. Social workers critically analyze, monitor, and evaluate interventions.

**Admission to the Social Work Program**

1. During the second semester of the junior year the student must submit a letter of intent to major in social work. This letter must identify why the student has chosen social work as a major and their professional objectives upon graduation. A statement of a student's personal values demonstrating congruency with social work values shall be included in the letter.
2. In the same semester an interview with program faculty will be scheduled as part of the admission process. This will allow the student to meet program faculty members and the faculty to assess the prospective student's written and communication skills.
3. Program faculty will conduct a review of the student's academic performance during this semester.
4. Students must sign a Student/Program Contract, upon acceptance by social work faculty into the social work program during this semester.
5. Signed Academic Approval form must be submitted to Financial & Registration Services.

**Continuation of the Social Work Program**

Continuation is determined by continuing progress toward a professional level of performance. In addition to a mastery of knowledge the student must demonstrate the acquisition of professional attitudes, values, and skills and commitment to the Code of Ethics of the National Association of Social Workers. Only those students whose academic accomplishments and personal attitudes, skills and values indicate reasonable promise in social work, as can be determined in the university setting, will be recommended for field placements. A minimum grade of "C" in SWK 3010 - Social Work Practice I, SWK 4020 - Social Work Practice II, and SWK 4811 - Field Experience I must be maintained for continuation in the program.

**Admission to Field Instruction**

1. Minimum GPA requirement (2.0).
2. A letter grade of C or better for the practice course SWK 3010.
3. A signed Student/Program Contract upon acceptance by social work faculty into the social work program.
4. Completion of all prerequisites and permission of the university field instructor.
5. Students who are denied admission to field instruction may reapply at a later date. Students who reapply must provide evidence that the reasons for which admission was originally denied have been appropriately remedied.

**Termination from the Program for Academic and Non-Academic Reasons**

Not every student will necessarily be appropriate for the practice of social work.

1. Failure to maintain a minimum GPA.
2. Inadequate interpersonal relationship skills for social work practice.
3. Inadequate written or verbal communication skills.
4. Violations of the NASW Code of Ethics.
5. Unresolved personal issues that impair performance in the classroom or in field instruction.
6. Lying, cheating, or plagiarizing in course work or field work.



7. Persistently inadequate performance in field instruction activities as well as failure to accomplish field instruction objectives.
8. Excessive class or field work absences.
9. Persistent inability to meet dates on assignments and projects.
10. Students who are terminated from the program may contest the faculty decision in writing within ten days of such decision to request a meeting with the faculty. If resolution is not made, they may appeal to the Academic Dean of the university who will make the final determination.

## Complete the Gen Ed requirements, including:

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- MAT 2021 - Statistics I 3 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- SOC 1010 - Introduction to Sociology 3 cr
- AND EITHER:
- BIO 1010 - Human Biology and Laboratory 4 cr
- OR BOTH:
- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr

## And complete the following related courses:

(or equivalents as determined by the program coordinator)

- SOC 2130 - The Community in American Society 3 cr OR SSC 1010 - Introduction to the Study of Community 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr

## And complete the following Social Work courses:

- SWK 1010 - Introduction to Human Services 3 cr
- SWK 1810 - Early Field 1 cr
- SWK 2011 - Human Behavior In The Social Environment I 3 cr
- SWK 2012 - Human Behavior In The Social Environment II 3 cr
- SWK 2040 - Discrimination in American Society 3 cr
- SWK 3010 - Social Work Practice I 3 cr
- SWK 3020 - History And Philosophy Of Social Work 3 cr
- SWK 4010 - Social Welfare Policies, Programs and Issues 3 cr
- SWK 4020 - Social Work Practice II 3 cr
- SWK 4030 - Social Work Practice III 3 cr
- SWK 4720 - Social Work Capstone Seminar 3 cr
- SWK 4811 - Field Experience I 6 cr
- SWK 4812 - Field Experience II 6 cr

Note:

- SWK 4811 and SWK 4812 must be taken consecutively during the same academic year.
- SWK 4020 and SWK 4811 must be taken concurrently.
- SWK 4030 and SWK 4812 must be taken concurrently.
- SWK 1810 is required of students with no prior human services experience.
- In the spring semester of the junior year, students sign an agreement that stipulates expectations and conditions for continuance in the program. In addition to academic requirements, students must demonstrate professionally appropriate skills, attitudes, and values as a condition of remaining in the program.

### Recommended but not required:

- CRJ 1010 - Introduction to Criminal Justice 3 cr
- CRJ 3160 - Juvenile Justice 3 cr
- ECO 1010 - Economics and Society 3 cr
- PSY 2040 - Social Psychology 3 cr
- SOC 1030 - Social Problems 3 cr

## Sociology (BA.SOC)

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

### Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## Bachelor of Arts in Sociology

### Complete these required courses (13 cr):

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr

### And complete 18 additional credits in SOC and/or ANT

Choose the 18 credits in consultation with the departmental advisor

### And complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Sociology: Community Studies (BA.SOC.CMS)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## **BA in Sociology with a Concentration in Community Studies**

This concentration will actively engage students in community organization and civic participation. By combining the traditional classroom setting with service-learning and community service internships, students will obtain the conceptual tools and practical field experiences necessary for civic leadership and active participation in democratic communities. Students will also gain experience in grant writing and will work with Castleton's Stafford Center for the Support and Study of the Community.

Complete 31 credits in Sociology to include:

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 1030 - Social Problems 3 cr
- SOC 2130 - The Community in American Society 3 cr
- SOC 3310 - Community Action Seminar 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- SOC 4810 - Internship in Sociology 1-12 cr [3 cr required]
- and complete 6 additional credits in SOC

and complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### **Sociology: Criminology (BA.SOC.CRM)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

### **BA in Sociology with a Concentration in Criminology**

This concentration focuses attention on applications of Sociological research and theory to the study of crime: including its etiology, the police, courts, corrections, victims and law.

**Complete 31 credits in Sociology to include:**

- CRJ 3010 - Crime Victims 3 cr
- CRJ 3050 - Law and Society 3 cr
- SOC 1010 - Introduction to Sociology 3 cr
- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SOC 2210 - Deviant Behavior 3 cr
- SOC 3210 - Criminology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- and complete 3 additional credits in SOC

and complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Sociology: Cultural Anthropology (BA.SOC.CAN)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

### **BA in Sociology with a Concentration in Cultural Anthropology**

This concentration focuses on the rich diversity of human cultures through cross-cultural analyses of a wide variety of topics and perspectives including religion, music, food, environmental studies, area studies, symbolic systems, cultural materialism, and globalism. The courses are designed to expose students to the crucial influences culture has in the lives of people in American society and around the world.

**Complete these courses (22 cr):**

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- SOC 1010 - Introduction to Sociology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- and complete 6 additional credits in SOC

**and complete 3 of the following 7 courses (9 cr):**

- ANT 2210 - Anthropology and the Environment 3 cr
- ANT 2710 - Selected Topics in Anthropology 3 cr
- ANT 3210 - Anthropology of Food 3 cr
- ANT 4910 - Independent Study 3 cr
- SOC 3140 - Sociology of Popular Music 3 cr
- SOC 3160 - Anthropology of Religion 3 cr
- SOC 4910 - Independent Study 1-3 cr [3 cr required]

**and complete 12 credits in related work (approved by the coordinator)**

**(Credits required for the major: 43 cr)**

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

### **Sociology: Honors (BA.SOC.HON)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

### **BA in Sociology with Honors**

The Honors program is designed to increase the depth of the superior student's work in Sociology through a rigorous academic curriculum, greater individual contact with faculty, and the performance of original research.

#### **Eligibility:**

1. GPA of 3.0 or better in Sociology and overall course work.
2. Recommendation by at least two faculty members from the Sociology, Social Work, and Criminal Justice Department.

The student should make formal application to the department chair at the end of the sophomore year. At this time an individual program will be designed and agreed upon by the student and department chair. It will include, at a minimum, the following requirements:

#### **Requirements**

Complete these required courses (13 cr):

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr

and complete 18 additional credits in SOC and/or ANT courses chosen in consultation with the department advisor

and complete 12 credits in related work (approved by the coordinator)

and complete the Statistics courses (6 cr):

- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr

and complete a senior thesis through Independent Study or Seminar.

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Note:**

-Students must attain a GPA of at least 3.0.

-Strongly recommended is an intermediate proficiency in a computer language or successful completion of two years of a foreign language at the university level.

*Recommendations of departmental honors are made on the basis of performance in course work and the senior thesis.*

## **Sociology: Major-by-Contract (BA.SSC.SOC)**

This major is for students who want to design a program of study that comprises two academic disciplines, one of which must be Sociology. The contract is designed and signed by the student, a Sociology faculty sponsor, and a faculty sponsor from another complementary discipline. Among the complementary disciplines that a student may choose from are Economics, Geography, History, Politics, Psychology, Women's and Gender Studies, or another appropriate academic discipline chosen by the student in consultation with the student's faculty advisor. The program must include at least 30 credits, with at least 18 credits at the upper level. Credits in the major should be balanced between the two selected disciplines. The contract must include an Independent Study or Seminar at the 4000 level, but may include only one Independent Study per discipline.

Normally, the contract should be approved by the time the student has reached the fifth semester or 75 credits. The contract must be reviewed and signed by the student's faculty advisor and the chair of the sponsoring department and ratified by an academic dean. The contract may be reviewed and modified, but any changes must be approved by all parties to the contract. A student may terminate the contract by electing another major.

In addition to the major, students will also be required to complete 12 credits in related work chosen in consultation with the faculty advisor, or a minor of 18-24 credits in a third social science or another appropriate academic discipline. A second major may be substituted for the related work or minor. Approval of the sponsoring department chair is required.

## **Sociology: Power and Conflict (BA.SOC.PWC)**

Students in the Sociology program will be prepared for careers in many fields, graduate school, and participation in society. Our students will graduate with an appreciation of the connection between individual experiences and the social forces in society.

Goals:

1. Graduates will be prepared to enter a wide range of occupations and graduate education opportunities.
2. Graduates will actively acquire an appreciation for diversity and develop a more diverse world view.
3. Graduates will develop an applied understanding of the social, cultural, and political dynamics affecting relationships between groups, organizations, institutions, and nations.
4. Graduates will develop the ability to use the sociological imagination to view social life from various perspectives.
5. Graduates will develop the ability to utilize the research tools of sociology for the critical evaluation of contemporary society.

## BA in Sociology with a Concentration in Power and Conflict

At the core of this concentration is an analysis of the structures of power and the resulting oppression. The concentration will examine the interplay between race, class and gender.

Complete the following courses (25 cr):

- SOC 1010 - Introduction to Sociology 3 cr
- SOC 1030 - Social Problems 3 cr
- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SOC 3220 - Social Movements of The 1960's 3 cr
- SOC 3910 - Research Methods 4 cr
- SOC 4020 - Sociological Theory 3 cr
- SOC 4720 - Capstone Seminar in Sociology 3 cr
- and complete 3 additional credits in SOC

and complete one of the following courses (3 cr):

- SOC 2170 - Gender Studies 3 cr
- WGS 1020 - Introduction to Women's And Gender Studies 3 cr

and complete one of the following courses (3 cr):

- CRJ 3050 - Law and Society 3 cr
- SOC 2240 - The Changing Family 3 cr
- SOC 3120 - Sociology of Education 3 cr

and complete 12 credits in related work (approved by the coordinator)

(Credits required for the major: 43 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

**Spanish for Business (BA.SPA.BUS)**



Students completing the Bachelor of Arts in Spanish will demonstrate their ability to:

- Speak, live with and relate to peoples of Spanish background in Vermont, the USA and abroad.
- Gain entry to and pass courses taken at accredited universities in Spanish speaking countries.
- Compare favorably with other graduates of Spanish language programs in their ability to gain employment using their critical thinking and language/cultural skills in a variety of contexts.

Complete the following courses in Spanish (12 cr):

- SPA 2030 - Spanish American Cultures 3 cr
- SPA 2040 - Business Spanish 3 cr
- SPA 3010 - Advanced Grammar, Composition and Conversation 3 cr
- SPA 3030 - Advanced Composition and Conversation 3 cr

and complete the following business related courses (12 cr):

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- MAT 2021 - Statistics I 3 cr

and complete one of the following three courses (3 cr):

- ECO 3220 - International Trade and Development 3 cr
- HIS 3210 - Social History of Latin America 3 cr
- HIS 3220 - Revolutions in Latin America 3 cr

and complete 9 credits from ACC, BUS, CIS, or ECO, subject to advisor approval

and complete a semester abroad in a language/internship program (6-12 cr):

(Credits required for the major: 42-48 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Spanish Language and Literature (BA.SPA)**

Students completing the Bachelor of Arts in Spanish will demonstrate their ability to:

- Speak, live with and relate to peoples of Spanish background in Vermont, the USA, and abroad.

- Gain entry to and pass courses taken at accredited universities in Spanish speaking countries.
- Compare favorably with other graduates of Spanish language programs in their ability to gain employment using their critical thinking and language/cultural skills in a variety of contexts.

## Complete 30 credits of Spanish at the 2000 level or above

At least 12 of the 30 credits must be in Spanish literature

### and complete the following related courses (9 cr):

- ENG 1310 - Introduction to Literature (L) 3 cr
- FLL 1110 - Film and Lit: Hispanic, French and Italian 3 cr
- HIS 2410 - History and Culture of Latin America 3 cr

### and complete one semester of Study Abroad

At least 6 credits will be in Spanish language, literature, or culture. These 6 credits are in addition to the 30 credits of work done on campus.

(Credits required for the major: 45 cr)

### And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Teaching Spanish at the Secondary Level

Students who wish to teach Spanish at the secondary level should pursue a Bachelor of Arts in Spanish Language and Literature. In addition they must complete the requirements for Secondary Education Licensure outlined in the Education Department listings. Students seeking licensure teaching Spanish at the Secondary level are required to take SPA 4020 - Teaching Spanish as a Foreign Language in Pre K-12 Schools. Students interested in this option should get a second advisor from the Education Department and apply for acceptance into the Education Department.

## Sports Administration (BS.SAD)

Students completing the Bachelor of Science in Sports Administration will demonstrate their ability to:

- Critically apply content knowledge to real world situations and tasks.
- Work effectively both individually and as part of a team to accomplish professional tasks.
- Understand and exhibit the professional ethics and responsibilities relevant to the field of Sports Administration.
- Understand and exhibit the role of professional development and continuing education as part of the industry.

Students should make a formal application to the Sports Administration program through the Sports Administration Program Coordinator during the spring of their first year or fall of sophomore year. Transfer students and upperclassmen may also apply and will be readily considered as part of the semester cohort. General information and criteria for selection to the program is published in the Sports Administration Program Handbook and on the Castleton University website. Students must complete a minimum of 28 credits, including PED 1350 - Introduction to Sports

Administration, BUS 1270 - Principles of Computer-Based Information Systems, as well as having at least a 2.3 GPA overall and a successful interview to be admitted to the program.

The culminating experience of PED 4811 - Internship in Sports Administration will also require a formal application process. Students can apply for internship after completing 75 credits overall (during Junior year), 30 credits in the Sport Administration core, have a 2.5 GPA overall and 2.7 in the SA Core. To be formally approved and eligible to enroll in PED 4811 - Internship in Sports Administration a student must have completed 90 credits overall, 35 credits in the required core, maintained the aforementioned GPA requirements and submit an approved application.

## Complete the Sports Administration Required Core (43 cr):

complete one of these courses:

- PED 2140 - Fitness Center Management 3 cr
- PED 3130 - Athletic Facility and Event Management 3 cr

and complete all of these courses:

- PED 1350 - Introduction to Sports Administration 3 cr
- BUS 2020 - Principles of Management 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr
- PED 2090 - Principles and Practices of Coaching 3 cr
- ACC 2101 - Accounting I 3 cr
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- BUS 2230 - Principles of Marketing 3 cr
- PED 2470 - Seminar in Sports Administration 2 cr
- PED 3160 - Legal and Ethical Principles in Sport 3 cr
- PED 3170 - Seminar in Sports Information Practices 3 cr
- PED 3210 - Sports Promotion 3 cr
- PED 3821 - Practicum in Sports Administration I 1 cr
- PED 3822 - Practicum in Sports Administration II 1 cr
- PED 4080 - Governance of Sports 3 cr
- PED 4110 - Strategic Sport Management 3 cr

And complete one of the following tracks (9-12 cr):

### Broadcast Media Track (9 credits)

- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 2212 - Video Workshop II: News and Feature Production 3 cr
- COM 2210 - Broadcast Performance 3 cr

### Outdoor Education Administration Track (10 credits)

- OER 1211 - Adventure Education – Low Elements 2 cr
- OER 1212 - Adventure Education – High Elements 2 cr
- OER 2060 - Advanced Wilderness First Aid 3 cr
- And one other OER activity courses 3 cr

### Sport Business Track (select 12 credits)

- ACC 3010 - Accounting for Management Decisions 3 cr
- BUS 3060 - Consumer Behavior 3 cr
- BUS 3210 - Advertising 3 cr
- BUS 3131 - Business Law I 3 cr
- BUS 3230 - Financial Management 3 cr
- BUS 3250 - Organizational Development and Behavior 3 cr

### Sports Information Track (9 credits)

- COM 1040 - Media Writing 3 cr
- COM 2220 - Web Content and Site Development 3 cr
- COM 2221 - Graphic Design I 3 cr

### Sport Promotion Track (select 9 credits)

- COM 1040 - Media Writing 3 cr
- COM 2150 - Public Relations 3 cr
- BUS 3210 - Advertising 3 cr
- COM 2230 - News Gathering and Writing 3 cr

### General Track (9-12 cr)

Select a total of 9-12 credits from:

- Any of the courses listed in the Tracks above, as approved by advisor and department chair
- Any Coaching Sport course (max 3 cr)
- ECO 2040 - Macroeconomics in a Global Context 3 cr

### And take an Internship (9-12 cr):

- PED 4811 - Internship in Sports Administration 9-12 cr

(Credits required for the major: 61-67 cr)

And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Theater Arts: Acting and Directing (BA.THA.AAD)**

All students graduating with a degree in Theater Arts should be able to:

1. Discuss and analyze productions in terms of thematic concerns, literary qualities, and artistic approaches.

2. Demonstrate a high degree of competency in one or more areas of theatrical production such as directing, design, acting, writing, stage management, or theater education.
3. Utilize materials in appropriate manners to achieve desired effects and communication to an audience.
4. Incorporate input and ideas generated through the collaborative process of production into their own creative work.
5. Present their work for review in a professional manner consistent with their areas of concentration.

## BA in Theater with a Concentration in Acting and Directing

Complete a minimum of 4 semesters of Stage Production (4 cr):

- THA 1001 - Stage Production 1 cr

and complete the following courses (24 cr):

- THA 1041 - Introduction to Theater Arts 3 cr
- THA 1111 - Stagecraft 3 cr
- THA 2011 - Survey of Theater History I 3 cr
- THA 2012 - Survey of Theater History II 3 cr
- THA 2121 - Acting I 3 cr
- THA 2140 - Introduction to Theatrical Design 3 cr
- THA 3211 - Directing I 3 cr
- THA 3310 - Dramatic Theory and Criticism 3 cr

and complete a minimum of 15 credits from the following (15 cr):

- DAN 1040 - Introductory Dance Workshop 3 cr
- THA 2122 - Acting II 3 cr
- THA 3020 - Acting for the Camera 3 cr
- THA 3030 - Children's Theater 3 cr
- THA 3123 - Acting III 3 cr
- THA 3124 - Acting IV 3 cr
- THA 3212 - Directing II 3 cr

and complete 12 credits in a related field of study approved by the department (12 cr)

and in the senior year (4 cr):

- THA 4030 - Portfolio Preparation 1 cr
- THA 4720 - Senior Project in Theater 3 cr

(Credits required for the major: 59 cr)

And complete the university's Gen Ed requirements

The department recommends that students pursuing a Theater Arts degree take additional courses in English, Literature, Communication, Film Studies, Music, and Art, either as electives and/or to satisfy General Education requirements.

**Review** the Gen Ed requirements.

## **Theater Arts: Technical Theater and Design (BA.THA.TTD)**

All students graduating with a degree in Theater Arts should be able to:

1. Discuss and analyze productions in terms of thematic concerns, literary qualities, and artistic approaches.
2. Demonstrate a high degree of competency in one or more areas of theatrical production such as directing, design, acting, writing, stage management, or theater education.
3. Utilize materials in appropriate manners to achieve desired effects and communication to an audience.
4. Incorporate input and ideas generated through the collaborative process of production into their own creative work.
5. Present their work for review in a professional manner consistent with their areas of concentration.

### **BA in Theater with a Concentration in Technical Theater and Design**

Complete a minimum of 4 semesters of Stage Production (4 cr):

- THA 1001 - Stage Production 1 cr

and complete the following courses (24 cr):

- THA 1041 - Introduction to Theater Arts 3 cr
- THA 1111 - Stagecraft 3 cr
- THA 2011 - Survey of Theater History I 3 cr
- THA 2012 - Survey of Theater History II 3 cr
- THA 2121 - Acting I 3 cr
- THA 2140 - Introduction to Theatrical Design 3 cr
- THA 3211 - Directing I 3 cr
- THA 3310 - Dramatic Theory and Criticism 3 cr

and complete a minimum of 15 credits from the following (15 cr):

- THA 2130 - Costume Design and Construction 3 cr
- THA 2510 - Scenic Painting 3 cr
- THA 3050 - Stage Makeup 3 cr
- THA 3120 - Lighting Design 3 cr
- THA 3220 - Computer Aided Design for Theatre 3 cr
- THA 3331 - Scene Design 3 cr
- THA 4020 - Stage Management 3 cr

- THA 4332 - Advanced Design for the Theater 3 cr

and complete 12 credits in a related field of study approved by the department (12 cr)

and in the senior year (4 cr):

- THA 4030 - Portfolio Preparation 1 cr
- THA 4720 - Senior Project in Theater 3 cr

(Credits required for the major: 59 cr)

And complete the university's Gen Ed requirements

The department recommends that students pursuing a Theater Arts degree take additional courses in English, Literature, Communication, Film Studies, Music, and Art, either as electives and/or to satisfy General Education requirements.

**Review** the Gen Ed requirements.

## **Women's and Gender Studies (BA.WGS)**

The Women's and Gender Studies major provides students with the opportunity to explore a variety of topics with an interdisciplinary approach. Students are required to take core courses in the field, in order to establish a shared language and understanding of the world. This also equips students with new tools to see the world differently. Students are encouraged to claim their education and activate their knowledge during their academic careers at Castleton.

The Women's and Gender Studies major prepares students to engage in important and relevant issues; the courses encourage students to think across the curriculum. Students learn critical thinking skills, and other skills that cultivate their global citizenship. Faculty support student-initiated projects that reflect traditional research, as well as projects focused on activism and advocacy.

Upon completion of the Women's and Gender Studies major, students will be able to demonstrate knowledge and understanding of the following:

- The interdisciplinary characteristic of the field, and the ways that such interconnections enhance knowledge and knowledge production.
- The "situated knowledge" that individual's possess as a reflection of their social locations and related experiences in the world.
- The ways of seeing the world through the theoretical framework of "intersectionality," or the intersections of gender, race, class, sexuality, and other social locations.
- The construction of, and appreciation for, difference, within and across categories of gender, as well as race, class, sexuality, and other social locations.
- The historical and contemporary relevance of activism, advocacy, and social justice within the field, and the importance of supporting such justice.
- The importance of centering the experiences and voices of marginalized and oppressed groups of people and advocating for change to minimize existing social inequities.

## Complete the following courses (24-27 cr):

Take these 4 core courses:

- WGS 1020 - Introduction to Women's And Gender Studies 3 cr
- WGS 3210 - Feminist Thought 3 cr
- WGS 3310 - Feminist Methods: Research and Action 3 cr \*
- WGS 4610 - Senior Project in Women's and Gender Studies 3 cr

And take one of the following:

- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SWK 2040 - Discrimination in American Society 3 cr

And take one of the following:

- ENG 3610 - Women Writers (L) 3 cr
- HIS 2210 - History of Women in the U.S. 3 cr

And take one of the following:

- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- SWK 2030 - Human Sexuality 3 cr

And take one of the following:

- WGS 4510 - Activism and Advocacy Project in WGS 3 cr
- WGS 4810 - Field Experience in Women's and Gender Studies 3-6 cr
- WGS 4820 - Internship in Women's and Gender Studies 1-6 cr

\*Students double-majoring in WGS and Sociology or Criminal Justice may substitute SOC 3910 for WGS 3310. Students double-majoring in WGS and Psychology may substitute PSY 3151 for WGS 3310.

## And complete 12 additional credits in WGS or related disciplines

In selecting these courses, first consult with—and gain the approval of—the WGS Coordinator.

(Total credits required: 36-39 cr)

Note: At least 18 credits of the major must be at the 3000 level or above.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Pre-Professional Programs

### Pre-Law Program

Castleton's Pre-Law Program equips students to gain entrance to law school and pursue a successful career in the legal profession.

Law school applicants have traditionally majored in History, Political Science, Philosophy, English, Business, or Psychology, but any major offers good preparation for pre-law students. Indeed, the data shows that Law schools seek undergraduates who have a liberal arts degree and possess strong skills in writing, reading, research, and problem solving. Because of the breadth and depth of Castleton's academic program, students who are successful here are highly attractive to law schools.



Pre-Law students are encouraged to join the Pre-Law Club and consult often with the Pre-Law Advisor. Castleton also provides many opportunities for pre-law students to participate in relevant extra-curricular activities (e.g. student government), do internships, and network with professionals in the field.

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Note that **Vermont Law School guarantees admission** into their JD program to any Castleton student who has achieved a GPA and LSAT score above the median scores of the current JD class at VLS. See below for details about this articulation agreement.

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Castleton and Vermont Law School (VLS) offer a dual-degree program leading to a Bachelor's degree (BA or BS) in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS. This 3+2 program enables highly focused students to earn both degrees and embark upon a law career in a total of five years (instead of the usual seven), thus saving much time and money. Go to the Law Degree page for details.

## PRE-LAW COURSES

Regardless of your major, the best preparation for law school is to take a broad range of challenging courses from demanding instructors who will help you to hone your writing, reading, research, and analytical reasoning skills.

Below are some of the many courses where you can develop these critical skills.

### **Courses students should consider taking as preparation for Law School**

- BUS 3131 - Business Law I 3 cr
- CRJ 2510 - Criminal Law 3 cr
- CRJ 3030 - Evidence 3 cr
- ENG 2010 - Expository and Argumentative Writing 3 cr -OR- ENG 3060 Technical and Professional Writing 3 cr
- HIS 1215 - Survey of Early U.S. History 3 cr
- HIS 1225 - Survey of Modern U.S. History 3 cr
- PHI 1020 - Critical Thinking 3 cr
- PHI 1030 - Introduction to Logic 3 cr
- POS 1020 - American Politics and Government 3 cr
- POS 3240 - Cases in Civil Liberties 3 cr

### **Courses that have a law component**

- BUS 3132 - Business Law II 3 cr
- BUS 3280 - Human Resources Management and Applications 3 cr
- COM 2160 - International Communication 3 cr
- COM 3010 - News Media Ethics and Law 3 cr
- CRJ 1010 - Introduction to Criminal Justice 3 cr
- CRJ 2010 - Law Enforcement in America 3 cr
- CRJ 2020 - American Judicial Process 3 cr
- CRJ 2080 - Correctional Philosophies and Practices 3 cr
- CRJ 2110 - Community-Based Corrections 3 cr
- CRJ 2210 - The Death Penalty 3 cr
- CRJ 3010 - Crime Victims 3 cr

- CRJ 3020 - Criminal Justice Administration 4 cr
- CRJ 3025 - Crime Scene Investigation 3 cr
- CRJ 3040 - Women and Criminal Justice 3 cr
- CRJ 3050 - Law and Society 3 cr
- CRJ 3060 - Constitutional Criminal Procedure 3 cr
- CRJ 3120 - White Collar Crime 3 cr
- CRJ 3160 - Juvenile Justice 3 cr
- CRJ 3170 - Ethical Issues in Criminal Justice 3 cr
- CRJ 3740 - Selected Topics in Criminal Justice 3 cr
- ENV 1210 - Environmental Harm and Mitigation Strategies 3 cr
- PHI 1040 - Introduction to Ethics 3 cr
- POS 1030 - Comparative Politics and Government 3 cr
- POS 2040 - International Relations 3 cr
- POS 2310 - Environmental Politics 3 cr
- POS 3420 - Congress and The Presidency 3 cr
- PSY 2150 - Police Psychology 3 cr
- PSY 3160 - Criminal Behavior 3 cr
- PSY 3220 - Juvenile Delinquency 3 cr
- PSY 4060 - Psychology and Law 3 cr
- PSY 4070 - Correctional Psychology 3 cr
- SOC 3210 - Criminology 3 cr

## ARTICULATION AGREEMENT WITH VERMONT LAW SCHOOL

Vermont Law School is home to the country's top-rated environmental law program.

### Master's degree

Any Castleton University student with a GPA of 3.0 or higher is **guaranteed admission** into any Vermont Law School masters program (Master of Environmental Law & Policy, Master of Energy Regulation and Law, Master of Food and Agriculture Law & Policy).

### JD

Vermont Law School **guarantees admission** into their JD program to any Castleton student whose GPA and LSAT score equal or exceed the median GPA and LSAT score of the current JD class at VLS.

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*Note: If you intend to apply to Vermont Law School, we suggest you take ENV 1210 - Environmental Harm and Mitigation Strategies*

## APPLYING TO LAW SCHOOL

Click here for information about preparing for the LSAT, getting into law school, and legal careers.

# Pre-Med Program

Castleton's Pre-Medical Program equips students to gain entrance to medical school and pursue a successful career as a physician.

The majority of medical school applicants complete a degree in the biological sciences, but complementing any major with the successful completion of the Pre-Medical Program provides a good preparation for entering medical school. Medical schools place great value on the breadth of education and personal development provided by a liberal arts education, and Castleton has a long history as a liberal arts institution. The courses taken to complete the pre-medical program overlap significantly with the requirements of the Biology (MBB) and Chemistry (Biochemistry) majors at Castleton University.

Free tutoring is offered through the Academic Support Center, and is targeted to many of the premedical courses in which students are enrolled.

## Pre-Medical Committee

The Pre-Medical Committee of Castleton University offers individual advising to all students interested in completing the Pre-Medical Program, enabling students to receive personalized guidance. Pre-Medical students are encouraged to choose a pre-medical advisor and meet with that person regularly, to discuss their progress and preparation for applying to medical school. The program also prepares a comprehensive premedical letter of evaluation for each student based on personal advising sessions and letters submitted by faculty and others from additional college work, volunteer experiences, and employment.

Preston Garcia, Assistant Professor, Biology Coordinator  
Peter Kimmel, Professor, Health Science Coordinator  
Tim Thibodeau, Assistant Professor  
Livia Vastag, Assistant Professor, Chemistry & Pre-Medical Coordinator

## Pre-Medical Coursework

### *Standard Prerequisites*

- One year of biology with laboratory (BIO 1121 and BIO 1122)
- Two years of chemistry with laboratory (CHE 1051, CHE 1052, CHE 2111, and CHE 3011)
- One year of physics with laboratory (PHY 1051 and PHY 1052)
- Calculus and Bio statistics (MAT 1531 and MAT 2036)
- Intro to Psychology and Intro to Sociology (PSY 1012 and SOC 1010)

### *Strongly Recommended Courses*

- Anatomy and Physiology I and II (BIO 2011 and BIO 2012)
- Genetics (BIO 3070)
- Spanish (SPA 1011)
- Medical Ethics (PHI 3020)
- Fundamentals of Microbiology (BIO 2125)
- Organic Chemistry II (CHE 2112)
- One semester Independent Research in Biology or Chemistry (BIO 4930 or CHE 4920)

## Pre-Medical Club

The Pre-Medical Club is a student-led organization devoted to bringing Castleton pre-health students together. The club provides a variety of resources to students, including a community to discuss the application process, mentors throughout their college career, opportunities to connect with Castleton majors currently attending medical school, a venue to share materials used for preparing for the MCAT, and tours of medical schools in the area.

If you are interested in joining the club, please contact the faculty advisor Livia Vastag.

## **Pre-Pharmacy Program**

Castleton's Pre-Pharmacy Program equips students to gain entrance to pharmacy school and pursue a rewarding career in pharmacy in just seven years (instead of the usual eight), thus saving much time and money

Pre-Pharmacy students should pursue one of these three undergraduate majors:

Health Science (BS.HLT)

Biology (BS.BIO)

Biology: Molecular Biology and Biomedicine (BS.BIO.MBB)

Students should meet with the Pre-Pharmacy Advisor, Professor Peter Kimmel, early in their first year at CU to discuss their options.

### **Articulation Agreement with Albany College of Pharmacy**

Albany College of Pharmacy & Health Sciences (ACPHS) is the #1 ranked value-added college in the country. The median salary of former students ten years after entering ACPHS is over \$110,000.

Castleton and Albany College of Pharmacy & Health Sciences offer a dual-degree program leading to a Bachelor's degree (BS) in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS. This 3+4 program enables highly focused students to earn two degrees and embark upon a rewarding career in Pharmacy in just seven years (instead of the usual eight), thus saving much time and money.

Go to the Pharmacy Degree page for details.

## **Associate's Degrees**

### **Business by Contract (AS.BUS.CNT)**

An Associate degree is designed to allow a student to complete a degree within two years in an area of interest. This degree would be appropriate for students who desire to obtain an initial college degree prior to making the commitment to complete a four-year degree. Courses completed for an associate degree can be applied to the completion of a four-year degree.

## Complete the following courses (12 cr):

- BUS 1270 - Principles of Computer-Based Information Systems 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2370 - Business Communications 3 cr
- BUS 3131 - Business Law I 3 cr

## And complete an AS.BUS.CNT Contract

The Contract must include 30 credits within the Department of Business Administration with prior approval of the student's business faculty advisor. Of these 30 credits up to 9 credits may be from non-business areas if, in the opinion of the student and the advisor, such courses will make a contribution to the student's objectives. A student wishing to concentrate the 30 credits in a specific area such as Accounting, Management, or Marketing must consult with the business faculty advisor.

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Communication: Associates (AS.COM)**

Associate of Science graduates in Communication will be aware of the nature of the communication enterprise as a force in shaping social, economic, and political structure.

## Complete the following:

- COM 1040 - Media Writing 3 cr
- COM 1211 - Introduction to Video and Filmmaking 3 cr
- COM 1220 - Introduction to Communication 3 cr
- COM 2170 - Radio Programming and Production 3 cr
- COM 2230 - News Gathering and Writing 3 cr
- COM 2260 - Media and Society 3 cr
- Plus 12 additional credits in COM 12 cr

(Total credits in Communication major: 30 cr)

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## **Criminal Justice: Associates (AS.CRJ)**

Students graduating with an Associate Degree in Criminal Justice will:

1. Know the difference between the criminal justice system and process, be able to identify historical trends in the evolution of each of the three components of the system, and identify and define the stages of the criminal justice processes. Additionally, they will be able to identify and compare the roles and responsibilities of criminal justice professionals throughout the system at each stage of the process.
2. Know the sources of law in American society, distinguish between criminal and civil law, and identify U.S. Constitutional amendments most closely associated with criminal justice, as well as important U.S. Supreme Court decisions pertaining to those amendments.

## Complete these Criminal Justice courses (29 cr):

Majors should complete CRJ 1010, CRJ 2010, CRJ 2020, CRJ 2080 in their first three semesters of study.

- CRJ 1010 - Introduction to Criminal Justice 3 cr \*
  - CRJ 2010 - Law Enforcement in America 3 cr \*
  - CRJ 2020 - American Judicial Process 3 cr \*
  - CRJ 2080 - Correctional Philosophies and Practices 3 cr \*
  - CRJ 2510 - Criminal Law 3 cr \*
  - CRJ 2810 - Field Experience 2 cr
  - and an additional 12 credits in CRJ courses 12 cr
- \*Courses with an asterisk must be completed with an average of "C" (2.00) or better.

## and complete one of the following courses (3 cr):

- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SWK 2040 - Discrimination in American Society 3 cr

## and complete these specific General Education courses (9 cr):

- MAT 2021 - Statistics I 3 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- SOC 1010 - Introduction to Sociology 3 cr

(Credits required for the major: 41 cr)

## Note:

In-service students should discuss these requirements with their Criminal Justice Advisor and/or the Coordinator of the Criminal Justice Program. Transfer students from criminal justice programs in other schools are urged to review their transcript evaluation with their Advisor and /or the Coordinator. They must satisfy the General Education and academic major requirements, regardless of the number of criminal justice credits transferred.

## General Studies (AA.GEN)

The Associate in Arts in General Studies offers certain unique opportunities for students because it allows wide latitude in the choice of courses after the General Education requirements have been met. To earn an Associate in Arts in General Studies students must fulfill the General Education requirements listed for the associate's degree, and then select other courses in order to earn a total of 64 credits.

## Cooperative Degrees

### Environmental Engineering (Castleton+Norwich University) (MCE)

All graduates of CU's Environmental Chemistry program or Environmental Science program who earn a GPA of 2.75 or higher are guaranteed admission to the Environmental Engineering concentration in Norwich University's Master of Civil Engineering (MCE) program.

#### Benefits

- Students matriculating into the MCE program at Norwich will receive a tuition discount of \$1,500.
- Students who earn a "B" or better in Calculus I (MAT 1531) and Calculus II (MAT 2532) are exempt from taking Engineering Analysis Techniques (CE 505) at Norwich.
- Students who earn a "B" or better in Physics I (PHY 2110) are exempt from taking the Physics prerequisite course at Norwich.
- Students who earn a "B" or better in English Composition (ENG 1061) or Honors Touchstones (ENG 2270) are exempt from taking the English composition prerequisite course (EN 101) at Norwich.

#### Note

-Students whose native language is not English shall achieve a successful score on the TOEFL exam.

-The CU graduate's first course in the MCE program must commence within 40 months of earning the BS.CHE or BS.ENV.

For further information, please contact:

*Dr. Andrew Vermilyea*  
*Department of Natural Sciences*  
*(802) 468-1892*  
*Andrew.vermilyea@castleton.edu*

### Law Degree (Castleton+Vermont Law School 3+2)

Castleton University (CU) and Vermont Law School (VLS) offer a dual-degree program leading to a Bachelor's degree (BA or BS) in just three years at CU and a Juris Doctor (JD) degree in just two years at VLS. This 3+2 program enables highly focused students to earn both degrees and embark upon a law career in a total of five years (instead of the usual seven), thus saving much time and money.

- The 3+2 program is available to undergraduate students enrolled in any of these majors:  
Communication: Concentration by Contract. Communication: Digital Media. Communication:  
Journalism. Communication: Media Studies. Communication: Public Relations.

Economics

English: American Literature. English: Children's Literature. English: Concentration by Contract. English:  
Honors. English: World Literature

Environmental Studies

Geography

Global Studies

History

Philosophy

Political Science

- Students complete the General Education and major requirements by the end of their junior year at CU and then in their fourth year commence law school at VLS (where the first two semesters of the JD program satisfy the remaining thirty undergraduate degree requirements).
- VLS waives the application fee for CU students in this program.
- Castleton students who have achieved a GPA and LSAT score above the median acceptance scores at VLS for the prior year are guaranteed admission to VLS.
- The CU Pre-Law Advisor and the VLS Program Coordinator provide assistance and advice to students regarding program requirements and the VLS admissions process.

*Note that Castleton's Pre-Law program offers a curriculum of undergraduate courses that prepare students to succeed in law school (see Pre-Law Program).*

### **Requirements**

1. Because students must complete their General Education and major requirements in a compressed time frame (three years instead of four), it is vital that they meet with their academic advisor early in their first year at CU to map out a three-year academic schedule.
2. Students submit an application to the Pre-Law Advisory Committee no later than the end of their first year of study at CU. The application includes:
  - a 500-word Statement of Interest
  - an Academic Plan demonstrating how the student will complete all General Education and major requirements by the end of their junior year at CU (with the exception of any credits that can be fulfilled by a course at VLS).
3. After acceptance into the 3+2 program, students must maintain a cumulative GPA at CU of at least 3.3. Students must be in good standing at Castleton at all times.
4. CU will accept 30 credits from VLS toward completion of the Bachelor's Degree. In addition, upon approval of the Pre-Law Advisory Committee, students may be allowed to count up to 9 credits from VLS toward their major's upper division electives requirement.
5. To progress to Vermont Law School, students must:
  - take the Law School Admission Test (LSAT) no later than February of their junior year.
  - submit their law school application to VLS no later than March 31 of their junior year.
6. The Castleton Bachelor's degree will be conferred immediately upon completion of the first two semesters of Law School.
7. Students pay tuition and fees to CU during the three years of study at Castleton. Once students matriculate at VLS, they pay tuition and fees to VLS.



Students who choose not to complete the law degree after the first year of enrollment at VLS can still have their credits transferred back to CU for the completion of the Bachelor's degree.

### **Contacts**

*Prospective students, please contact:*

Castleton Admissions Office: [info@castleton.edu](mailto:info@castleton.edu)

*Current students, please contact:*

Rich Clark (Pre-Law Advisor): [rich.clark@castleton.edu](mailto:rich.clark@castleton.edu)

*For information about Vermont Law School, please contact:*

Katie Merrill (Admissions Counselor): [KMERRILL@vermontlaw.edu](mailto:KMERRILL@vermontlaw.edu)

## **MBA (Castleton+Clarkson University 4+1)**

*Contact: Professor Paul Cohen, Department of Business Administration*

Castleton offers this degree program in conjunction with Clarkson University (Potsdam, New York). This program enables Castleton students to complete an MBA in one year instead of the usual two years after a bachelor's degree. Class size for the one-year MBA program is restricted. Students are encouraged to apply early or possibly be placed on a waiting list.

Students will complete a bachelor's degree at Castleton, majoring in any of the Liberal Arts and Sciences or professional programs, and will take the required foundation courses listed below (many of which will satisfy Castleton's General Education requirements). For GUARANTEED admission to Clarkson's MBA Program students must:

1. Maintain a minimum 2.0 GPA in the foundation requirements.
2. Graduate with a minimum 3.0 GPA in upper division courses, or the last four semesters at Castleton.
3. Score in the fiftieth percentile on the Graduate Management Aptitude Test.

### **Complete the required Castleton courses:**

- ACC 2101 - Accounting I **3 cr**
- ACC 3010 - Accounting for Management Decisions **3 cr**
- BUS 1270 - Principles of Computer-Based Information Systems **3 cr**
- BUS 2020 - Principles of Management **3 cr \***
- BUS 2230 - Principles of Marketing **3 cr \***
- BUS 3131 - Business Law I **3 cr**
- **-OR-** CRJ 3050 - Law and Society **3 cr**
- BUS 3230 - Financial Management **3 cr**
- BUS 4110 - Operations Management **3 cr**
- ECO 2040 - Macroeconomics in a Global Context **3 cr**
- ECO 2050 - Microeconomics in a Global Context **3 cr**
- MAT 2021 - Statistics I **3 cr**

\*Students completing these courses will be required to complete a course in each of these areas as part of their graduate program. This would not lengthen the program.

In addition:

Students are expected to have a working knowledge of Calculus. (MAT 1531 will serve as foundation for Calculus).

## And complete the university's Gen Ed requirements

Review the Gen Ed requirements.

## Program Structure

Building on a knowledge base in the foundation subjects, the MBA program consists of 30 semester hours of study (ten courses) at the graduate level. Eighteen hours must be completed from among the core courses in six of the following eight functional areas of study:

|                         |                     |
|-------------------------|---------------------|
| Financial Management    | Accounting Theory   |
| Marketing Management    | Information Systems |
| Operations Management   | Economic Theory     |
| Organizational Behavior | Management Science  |

All students must also complete one course in Managerial Policy. The remaining nine hours (three courses) consist of electives from among the graduate offerings of the School of Management.

Thus, the candidate has the opportunity to pursue advanced work in the above functional areas as well as specialized work in a variety of other areas. A candidate for the MBA degree must also complete a project designed to test oral and written communication skills.

## Occupational Therapy (Castleton+Sage Graduate School 4+2) (MS-OPT)

*Contact: Professor Peter Kimmel, Natural Sciences Department*

Castleton offers this degree program in conjunction with Sage Graduate School, Troy, NY. Students will complete a bachelor's degree from Castleton, including the courses specified below, and will be granted preferred acceptance (based on space available) to the two-year masters program in Occupational Therapy (MS-OT) at Sage.

### Specific program requirements:

#### 1. Complete a baccalaureate degree program at Castleton

Students may choose from any of Castleton's baccalaureate programs, but we recommend that pre-OT students consider majoring in Psychology, Biology, Exercise Science, Health Science, or Athletic Training.

#### 2. Complete these Pre-Occupational Therapy courses (24 cr)

*All courses must be completed with grades of C or better*

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- BIO 2125 - Fundamentals of Microbiology 4 cr
- MAT 2021 - Statistics I 3 cr
- PHY 2110 - Physics I 4 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3070 - Abnormal Psychology 3 cr
- SOC 1010 - Introduction to Sociology 3 cr
- **OR** ANT 1010 - Introduction to Cultural Anthropology 3 cr

3. Attain an overall GPA of 3.25 or better

4. Obtain a positive recommendation from Castleton's pre-health professional faculty.

### Admission to Sage Graduate School:

Castleton students who complete the above requirements will be eligible for:

- Preferred acceptance (based on space available) into Sage's MS-OT program,
- Waiver of Sage Graduate School application fee,
- Access to Sage advisors to coordinate undergraduate electives and coursework to reduce or eliminate prerequisites in the graduate program, and
- Opportunity to apply early for graduate assistantships.

To qualify for preferred acceptance to the MS-OT program, students agree to the following:

*By June 1 of the year preceding graduation from Castleton:*

1. Submit a completed Graduation Application Packet with supplemental documents (fee waived), including:
  - a. Current resume
  - b. Clinical observation form
  - c. Program prerequisite record
  - d. OT program academic standards statement
  - e. Career goals statement / personal essay

Forms are available at: [www.sage.edu/academics/health\\_sciences/programs/occupational\\_therapy/](http://www.sage.edu/academics/health_sciences/programs/occupational_therapy/)

*Mail to: The Sage Graduate Schools  
Office of Admissions  
65 First Street  
Troy, NY 12180*

2. E-mail the OT Department ([sageot@sage.edu](mailto:sageot@sage.edu)) and Sage Graduate School Admissions ([sgsadm@sage.edu](mailto:sgsadm@sage.edu)) indicating that their application has been submitted according to Castleton's articulation agreement.

3. Submit official transcripts from all higher education institutions attended.

4. Submit two (2) letters of reference from Castleton Psychology or Sociology faculty (or equivalent faculty representative).

Within **30 days** of acceptance to Sage:

5. Make enrollment deposit of \$50 (non-refundable, but will be applied toward graduate tuition).

*Upon **graduation** from Castleton:*

6. Submit final transcripts documenting completion of undergraduate degree and OT program prerequisite courses to the OT Department at the address above.

7. Submit Clinical Observation Document showing at least 20 hours of clinical observation with an occupational therapist.

*-The above requirements and procedures are reviewed every two years and subject to change without notice-*

## **Pharmacy Degree (Castleton+Albany College of Pharmacy & Health Sciences 3+4)**

Albany College of Pharmacy & Health Sciences (ACPHS) is the #1 ranked value-added college in the country. The median salary of former students ten years after entering ACPHS is over \$110,000.

Castleton University (CU) and Albany College of Pharmacy & Health Sciences offer a dual-degree program leading to a Bachelor's degree (BS) in just three years at CU and a Doctor of Pharmacy (Pharm.D.) in four years at ACPHS. This 3+4 program enables highly focused students to earn two degrees and embark upon a rewarding career in Pharmacy in just seven years (instead of the usual eight), thus saving much time and money.

- Students spend the first three years at CU taking advantage of all the great opportunities on campus.
- CU students who meet specified criteria are then guaranteed admission to ACPHS's Doctor of Pharmacy Program.
- Students begin their graduate coursework in the fourth year. They can earn their Pharm.D. at either campus of ACPHS: in Albany, NY or Colchester, VT.
- The 3+4 program is available to undergraduate students enrolled in these majors:  
Health Science (BS.HLT)

Biology (BS.BIO)

Biology: Molecular Biology and Biomedicine (BS.BIO.MBB)

### **Requirements**

1. Because students must complete their General Education and major requirements in a compressed time frame (three years instead of four), it is vital that they meet with the Pre-Pharmacy Advisor, Professor Peter Kimmel, early in their first year at CU to map out a three-year academic schedule.

2. Students make a formal application to ACPHS by December 1 in the fall semester of their third year at CU.
  
3. Students will matriculate at ACPHS once they have met the following requirements:
  - completion of at least 90 credits at CU with an overall minimum GPA of 3.0 (only grades of C or above will count towards the credits that comprise ACPHS prerequisites),
  - completion of the required Pre-pharmacy courses at CU (see the Pre-Pharmacy Advisor, Professor Peter Kimmel, for the required courses),
  - satisfactory completion of the interview at ACPHS,
  - successful completion of the writing assessment, and
  - completion of the PCAT with a minimum score of 20.
  
4. Students will receive a Bachelor of Science degree from CU once they have completed the degree requirements at CU and completed the first year of the Doctor of Pharmacy at ACPHS.

#### **Contacts**

*Prospective students, please contact:*

Castleton Admissions Office: info@castleton.edu

*Current students, please contact:*

Professor Pete Kimmel (Pre-Pharmacy Advisor): Peter.Kimmel@castleton.edu

*For information about Albany College of Pharmacy & Health Sciences, please contact:*

ACPHS Admissions Office: admissions@acphs.edu

## **Physical Therapy (Castleton+Sage Graduate School 4+3) (DPT)**

*Contact: Professor Peter Kimmel, Natural Sciences Department*

Castleton offers this degree program in conjunction with Sage Graduate School, Troy, NY. Students will complete a bachelor's degree from Castleton, including the courses specified below, and will be granted preferred acceptance (based on space available) to the three-year clinical Doctor of Physical Therapy program (DPT) at Sage.

### **Specific program requirements:**

1. Complete a baccalaureate degree program at Castleton

Students may choose from any of Castleton's baccalaureate programs, but we recommend that pre-PT students consider majoring in Biology, Exercise Science, Health Science, or Athletic Training.

## 2. Prerequisite Courses

Complete the following prerequisite courses with grades of C or better (37 credits total)

- BIO 2011 - Human Anatomy and Physiology I 4 cr
- BIO 2012 - Human Anatomy and Physiology II 4 cr
- BIO 2125 - Fundamentals of Microbiology 4 cr
- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- MAT 2021 - Statistics I 3 cr
- PHY 2110 - Physics I 4 cr
- PHY 2210 - Physics II 4 cr
- PSY 1012 - Introduction to Psychological Science 3 cr
- PSY 1050 - Human Growth and Development 3 cr

## 3. Attain a science GPA of 3.25 or better

(in Human Anatomy and Physiology, Microbiology, Chemistry, and Physics.)

## 4. Attain an overall GPA of 3.25 or better

## 5. Obtain a positive recommendation from Castleton's pre-health professional faculty

## Admission to Sage Graduate School:

Castleton students who complete the above requirements will be eligible for:

- Preferred acceptance (based on space available) into Sage's DPT program,
- Waiver of Sage Graduate School application fee,
- Early acceptance (for students who submit applications through the PTCAS early decision process in the summer before their senior year),
- Advisement to coordinate undergraduate electives and coursework to address DPT program prerequisites, and
- Opportunity to apply early for graduate assistantships.

To qualify for preferred acceptance to the DPT program, students agree to the following:

*By August 15\* of the year preceding graduation from Castleton:*

1. Submit a completed PTCAS application ([www.ptcas.org](http://www.ptcas.org)) following Early Decision Procedures, including:
  - a. Official transcripts
  - b. Two (2) letters of recommendation, one of which must be academic
  - c. Clinical Observation Hours Documentation (minimum 40 hours, preferably in at least 2 settings)

d. Current resume

e. Essay

*\*This date is determined by PTCAS and is subject to change each year. Please visit [www.ptcas.org](http://www.ptcas.org) for the most current deadline date.*

2. Submit the supplemental document form (DPT Academic and Technical Program Standards Statement) to the PT Department. Forms can be found at [www.sage.edu/academics/health\\_sciences/programs/dpt/admission/](http://www.sage.edu/academics/health_sciences/programs/dpt/admission/)

*Mail to: Carrie Knepp, PT Department  
The Sage Colleges  
65 First Street  
Troy, NY 12180*

3. E-mail the PT Department ([sagept@sage.edu](mailto:sagept@sage.edu)) indicating that their application has been submitted to PTCAS according to Castleton's articulation agreement.

*Within **30 days** of acceptance to Sage:*

4. Submit official transcripts from all higher education institutions attended to the PT Department at the address above.

5. Make enrollment deposit of \$200 (non-refundable, but will be applied toward graduate tuition).

*Upon **graduation** from Castleton:*

6. Submit final transcripts documenting completion of undergraduate degree and PT program prerequisite courses to the PT Department at the address above.

While interviews are no longer required, Sage encourages students to visit campus and meet with a representative of the PT program prior to submitting an application to PTCAS. Please contact Carrie Knepp at [sagept@sage.edu](mailto:sagept@sage.edu) to schedule a visit or ask questions about Sage's PT program.

*-The above requirements and procedures are reviewed every two years and subject to change without notice-*

## **Certificates (awarded in conjunction with undergraduate degree)**

### **Civic Engagement Certificate**

This certificate, open to degree-seeking students regardless of major, allows students to develop knowledge and skills necessary for promoting positive change in their communities by combining disciplinary and inter-disciplinary coursework with direct community service, engagement, and leadership. The receipt of the Civic Engagement Certificate will be noted on the student's transcript when the degree is awarded.

#### **Complete these requirements:**

1. Attend required two-hour orientation and training session.
2. Declare interest in Civic Engagement program by beginning of junior standing.
3. Successfully complete four courses designated Civic Engagement:
  - At least two of the four courses must be from different General Education Frames of Reference.

- The remaining two courses may be from within or outside the General Education curriculum.
  - At least one of the four courses must be at the 3000 level or above.
  - No more than two courses from any one discipline can be used to complete the four-course requirement.
4. Complete 160 hours (40 hours average per year) of service fieldwork approved by the Civic Engagement Committee:
- Fieldwork related to coursework or to extracurricular activities may be used to complete the 160-hour requirement.
  - All service, regardless of designation of "service," "engagement," or "leadership" can be counted toward the 160-hour requirement.
5. Complete Project/Paper:
- After at least three courses and at least 75% of hours are completed, students will prepare project/paper to be completed prior to graduation.
  - Paper/project may be based upon service hours or Civic Engagement courses, but will be reviewed by a designated panel of faculty at the proposal and final stages.
  - Project/paper will demonstrate service, engagement, and leadership aspects.

These courses will be offered in the CE Program during Fall Term 2016

## **Global Studies Certificate**

The Certificate in Global Studies provides an opportunity for interested degree-seeking students to strengthen their understanding and engagement with our globally integrated world through coursework and globally oriented experiential learning.

Complete the introductory GLB course (3 cr):

- GLB 1010 - Introduction to Global Studies 3 cr

And complete three of the following (9 cr):

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- ECO 1040 - Global Economic Issues 3 cr
- GEO 2020 - World Regional Geography 3 cr
- POS 1030 - Comparative Politics and Government 3 cr

And perform community service

Complete 30 hours of community service with a global focus. Prior approval by the Global Studies Coordinator is required.

## **Licensures**

### **Elementary Education Licensure**



## Complete the following courses (35 cr):

- EDU 1012 - Education Inquiries 3 cr
- EDU 2011 - Reading/Writing: Elementary Classroom 3
- EDU 2012 - Special Education: Elementary Classroom 3 cr
- EDU 3011 - Elementary Pedagogy 3 cr
- EDU 4031 - Educational Collaborations 5 cr
- EDU 4720 - Student Teaching Seminar 3 cr
- EDU 4871 - Directed Student Teaching I 6 cr
- EDU 4872 - Directed Student Teaching II 6 cr  
select one of these:
- PSY 1050 - Human Growth and Development 3 cr
- PSY 2110 - Educational Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

## Satisfy the three Gateways

*There are three Gateways required for successful completion of the Elementary program.*

### Gateway 1

*It is expected that most students will complete Gateway 1 by the end of their second semester.*

- Receive a positive recommendation encouraging continuation in the program.
- Earn a cumulative GPA of 3.0.
- Select Education and liberal arts faculty advisors.
- Identify a liberal arts major.
- Complete and submit the Change of Academic Program (CAP).
- Make progress toward completion of the General Education Program.
- Pass the Core Academic Skills Test for Educators.

### Gateway 2

*Upon completion of the General Education requirements and a liberal arts major, students must satisfy the requirements of Gateway 2.*

- Pass the first section of the electronic portfolio.
- Earn a cumulative GPA of 3.0.
- Recommended to take the Praxis Subject Assessments test. (Note: The Education Department cannot make a recommendation for licensure if you have not passed the Praxis Subject Assessments test)
- Receive a recommendation from Education and liberal arts faculty to continue in the program.

### Gateway 3

*To be recommended for licensure to teach in Vermont the student must:*

- Complete all University and departmental course requirements.
- Pass Both the Core Academic Skills Test for Educators and Praxis Subject Assessments test.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Receive a grade of "B" or better in EDU 4871, EDU 4872 and a "Pass" in EDU 4720.
- Complete all coursework with a cumulative GPA of 3.0.

- Submit Licensure Portfolio and appropriate application materials for review by the Castleton Licensure Committee.

## Endorsements

Students seeking Elementary Licensure may also add these Endorsements:

### Middle Grades Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students in grades 5-9. (Click here for details.)

### Special Education Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students with disabilities. (Click here for details.)

*(Note that Endorsement courses can be woven through the four years of undergraduate coursework but may require students to take an additional semester or two to finish.)*

## Secondary Education Licensure

Complete the following courses (35 cr):

- EDU 1012 - Education Inquiries 3 cr
- EDU 2031 - Disciplinary Literacies: Secondary Classroom 3 cr
- EDU 2032 - Special Education: Secondary Classroom 3 cr
- EDU 3012 - Secondary Pedagogy 3 cr
- EDU 4031 - Educational Collaborations 5 cr
- EDU 4720 - Student Teaching Seminar 3 cr
- EDU 4871 - Directed Student Teaching I 6 cr
- EDU 4872 - Directed Student Teaching II 6 cr
- select one of these
- PSY 1050 - Human Growth and Development 3 cr
- PSY 2110 - Educational Psychology 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

## Satisfy the three Gateways

*There are three Gateways required for successful completion of the Elementary program.*

### Gateway 1

*It is expected that most students will complete Gateway 1 by the end of their second semester.*

- Receive a positive recommendation encouraging continuation in the program.
- Earn a cumulative GPA of 3.0.
- Select Education and liberal arts faculty advisors.
- Identify a liberal arts major.

- Complete and submit the Change of Academic Program (CAP).
- Make progress toward completion of the General Education Program.
- Pass the Core Academic Skills Test for Educators.

### **Gateway 2**

*Upon completion of the General Education requirements and a liberal arts major, students must satisfy the requirements of Gateway 2.*

- Pass the first section of the electronic portfolio.
- Earn a cumulative GPA of 3.0.
- Recommended to take the Praxis Subject Assessments test. (Note: The Education Department cannot make a recommendation for licensure if you have not passed the Praxis Subject Assessments test)
- Receive a recommendation from Education and liberal arts faculty to continue in the program.

### **Gateway 3**

*To be recommended for licensure to teach in Vermont the student must:*

- Complete all University and departmental course requirements.
- Pass Both the Core Academic Skills Test for Educators and Praxis Subject Assessments test.
- Exemplify in conduct and attitude the maturity, judgment, ethical standards, and dedication expected in the teaching profession.
- Receive a grade of "B" or better in EDU 4871, EDU 4872 and a "Pass" in EDU 4720.
- Complete all coursework with a cumulative GPA of 3.0.
- Submit Licensure Portfolio and appropriate application materials for review by the Castleton Licensure Committee.

## **Endorsements**

Students seeking Elementary Licensure may also add these Endorsements:

### Middle Grades Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students in grades 5-9. (Click here for details.)

### Special Education Endorsement

This Endorsement is earned by taking four extra courses that provide expertise on teaching students with disabilities. (Click here for details.)

*(Note that Endorsement courses can be woven through the four years of undergraduate coursework but may require students to take an additional semester or two to finish.)*

## **Endorsements**

### **Middle Grades Endorsement**

The Middle Grades Endorsement is for students seeking Elementary or Secondary Licensure who wish to add additional certification specific to teaching and learning in the Middle Grades (5-9).

The endorsement will ensure that students understand the nature and needs, organization, curriculum, and embedded literacy practices connected to young adolescents. This endorsement is highly encouraged by middle grades principals across the state and country.

### Complete the following courses (12 cr):

- EDU 2610 - Middle Grades Curriculum 3 cr
- EDU 3620 - Middle Grades Organization 3 cr
- EDU 3630 - Middle Grades Embedded Literacy 3 cr
- PSY 3265 - Child and Adolescent Development 3 cr

## Special Education Endorsement

The Special Education Endorsement is available for students seeking Elementary or Secondary Licensure who wish to add additional certification specific to teaching and learning in Special Education.

### Complete the following courses (13 cr):

- EDU 2140 - Cognitive Differences and Emotional Challenges 3 cr
- EDU 3130 - Learning Differences and Attention Difficulties 3 cr
- EDU 3370 - Models of Assessment and Intervention in Special Education 4 cr
- EDU 3380 - Collaboration and Special Education Law 3 cr

## Special Education Social Science Concentration

Elementary and Secondary students are strongly advised to add a concentration to their Special Education Endorsement by adding the following courses (12 cr):

- PSY 2210 - Applied Behavior Analysis I 3 cr
- PSY 3060 - Child Psychopathology 3 cr
- PSY 4020 - Psychological Testing 3 cr
- SOC 1030 - Social Problems 3 cr

*Note that Elementary Special Education students may elect this group of courses as their Multidisciplinary Concentration.*

## Minors

### Adventure Recreation Minor (ADV)

This minor is offered by the Department of Health, Human Movement, & Sport.

### Complete these required courses (11 cr):

- OER 1150 - Winter Recreation and Camping 2 cr
- OER 1210 - Orienteering and Camping Skills 2 cr
- OER 2060 - Advanced Wilderness First Aid 3 cr

- OER 2170 - Primitive Survival Skill 2 cr
- OER 2220 - Theory of Outdoor Leadership 2 cr

And select 3 credits from the following:

- OER 1131 - Rock Climbing 1 cr
- OER 1170 - Ice Climbing 1 cr
- OER 1180 - Introduction to Telemark Skiing 1 cr
- OER 1133 - Rock Climbing and Rappelling 1 cr
- OER 1225 - Wilderness Canoe Tripping 1 cr
- OER 1230 - Introduction to Mountain Biking 1 cr
- OER 1240 - Fly Fishing 1 cr
- OER 1320 - Back Country Skiing and Snowboarding 1 cr
- OER 2310 - Winter Mountaineering 3 cr
- PED 1040 - Archery 1 cr
- PED 2350 - White Water Rafting 1 cr

Total credits required: 14 cr

## **Art History Minor (ARH)**

The Art History Minor is offered by the Art Department. It requires 18 credits:

Complete the Survey courses (6 cr):

- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr

And fulfill the remaining credits from these courses (12 cr):

- ARH 2030 - History of Architecture 3 cr
- ARH 2710 - Special Topics in Art History 3 cr
- ARH 2910 - Independent Study in Art History 3 cr OR ARH 3910 - Independent Study in Art History 3 cr OR ARH 4910 - Independent Study in Art History 3 cr
- ARH 3010 - Classical Art: Greece and Rome 3 cr
- ARH 3030 - Italian Renaissance Art 3 cr
- ARH 3040 - The Art of Medieval Europe 3 cr
- ARH 3050 - American Art 3 cr
- ARH 3051 - History of Nineteenth Century Art 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr
- ARH 3070 - Art Since 1945 3 cr
- ARH 4850 - Capstone Presentation 1 cr

Note

This minor is not available to students majoring in Art History (BA.ART.ARH)

## **Biology Minor (BIO)**

This minor, offered by the Natural Sciences Department, can be earned by completing at least 24 credits in Biology of which no more than eight credits may be below the 2000-level.

## **Business Administration Minor (BUA)**

This minor is offered by the Business Administration Department. The minor is available to non-Business majors only. The minor requires 18 total credits selected from Accounting and Business courses. To allow familiarity with the primary functions of business, students are required to complete an accounting course, a management course, and a marketing course. To provide more depth in an area of business, students select an additional 9 credits of courses in either accounting or business; 6 credits must be at the 3000-level or higher. It is suggested that the additional 9 credits be from a specific business function such as accounting, management, or marketing. Courses at the 1000-level are not eligible for inclusion in the minor.

Complete the following courses (9 cr):

- ACC 2101 - Accounting I 3 cr
- BUS 2020 - Principles of Management 3 cr
- BUS 2230 - Principles of Marketing 3 cr

Plus 9 credits of electives in Accounting or Business

6 credit must be at the 3000 level or higher

Total credits required: 18 cr

## **Chemistry Minor (CHE)**

This minor, offered by the Natural Sciences Department, can be earned by completing at least 23 credits in Chemistry.

Complete the following courses (16 cr):

- CHE 1041 - General Chemistry I 4 cr
- CHE 1042 - General Chemistry II 4 cr
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 3020 - Analytical Chemistry 4 cr

and complete two of the following courses (7-8 cr):

- CHE 2112 - Organic Chemistry II 4 cr
- CHE 3011 - Biochemistry with Discussion 4 cr
- CHE 3030 - Aqueous Geochemistry 3 cr

- CHE 3031 - Physical Chemistry I 4 cr
- CHE 3032 - Physical Chemistry II 4 cr

(Total credits required for the minor: 23-24 cr)

## **Cinema Studies Minor (CNS)**

The Cinema Studies minor, which is offered by the Communication Department, is an 18-credit minor offering students cutting edge digital humanities approaches to exploring cinema as a nexus of the social, cultural, political, and economic spheres. This interdisciplinary program is designed around a core of classes in cinema studies, augmented by studies in related departments and programs.

Complete the following courses (9 cr):

- COM 1150 - Introduction to Cinema Studies 3 cr
- COM 2330 - International Cinema 3 cr
- COM 2730 - Special Topics in Cinema Studies 3 cr

And a minimum of 9 credits from the following (9 cr):

- ARH 3052 - History of Twentieth Century Art 3 cr
- ART 2130 - Experimental Cinema and Video 3 cr **OR** COM 2130 - Experimental Cinema and Video 3 cr
- ART 2301 - Photography I 3 cr
- COM 2120 - Script Workshop I 3 cr
- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- COM 2730 - Special Topics in Cinema Studies 3 cr (may be taken a maximum of two times for minor credit)
- COM 2970 - Directed Study in Cinema Studies 1-3 cr
- COM 3020 - Documentary Workshop 3 cr (has prerequisites not contained in the minor)
- COM 4020 - Screen Drama Workshop 3 cr (has prerequisites not contained in the minor)
- COM 4030 - Script Workshop II 3 cr
- COM 4970 - Directed Study in Cinema Studies 1-3 cr
- FLL 1110 - Film and Lit: Hispanic, French and Italian 3 cr
- HIS 2335 - Asia through Food and Film 3 cr
- PHI 3060 - Aesthetics 3 cr
- THA 3020 - Acting for the Camera 3 cr

Total credits required: 18 cr

## **Coaching Minor (COA)**

This minor is offered by the Department of Health, Human Movement, & Sport.

Complete these required courses (15 cr):

- AHS 1070 - Basic Athletic Training 3 cr
- PED 2120 - Psycho-Social Aspects of Physical Activity 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2090 - Principles and Practices of Coaching 3 cr
- PSY 1050 - Human Growth and Development 3 cr

And select two of the following courses (6 cr):

- PED 2180 - Coaching Soccer 3 cr
- PED 2190 - Principles of Coaching Ice Hockey 3 cr
- PED 2220 - Coaching Basketball 3 cr
- PED 2240 - Coaching Baseball and Softball 3 cr
- PED 2390 - Coaching Football 3 cr

Total credits required: 21 cr

## **Communication Minor (COM)**

This minor is offered by the Communications Department. Any student may earn a minor in Communication by taking 18 credits in Communication courses. The department recommends that students work with an advisor in the Communication Department to develop a sequential course of study and/or to determine a minor by contract.

## **Community Health Education Minor (CED)**

The Community Health Education minor is offered by the Department of Health, Human Movement, & Sport. The minor prepares candidates in non-school health settings such as public health departments, hospitals, work site health promotion, and non-profit community agencies.

This program prepares students to take the Community Health Education Specialist (CHES) exam.

This is also a valuable minor for Health Science and Health Psychology majors.

Complete the following courses (24 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2120 - Wellness for Life 3 cr
- HED 2310 - Health Education Methods 3 cr
- HED 3030 - Health Behavior Theory 3 cr
- HED 3051 - Community Health Education I 3 cr
- HED 4052 - Community Health Education II 3 cr
- PED 2370 - Community Health 3 cr

And complete one of the following courses (3 cr):

- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr



**-OR-**

- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr

(Total credits required: 27 cr)

## **Computer Information Systems Minor (CIS)**

The minor in Computer Information Systems is offered by the Business Administration Department.

Complete the following courses (12 cr):

- BUS 1270 - Principles of Computer-Based Information Systems 3 cr
- CIS 2011 - Visual Basic Programming 3 cr
- CIS 3022 - Advanced Visual Basic 3 cr
- CIS 4120 - Systems Analysis and Design 3 cr

and complete two of the following courses (6 cr):

- BUS 4220 - Networking 3 cr
- CIS 2031 - C/C++ Programming I 3 cr
- CIS 2032 - C/C++ Programming II 3 cr
- CIS 3040 - Databases 3 cr
- CIS 3045 - Advanced Database Concepts 3 cr

Total credits required: 18 cr

## **Criminal Justice Minor (CRJ)**

This minor is offered by the Criminal Justice Department.

Complete the introductory course (3 cr):

- CRJ 1010 - Introduction to Criminal Justice 3 cr

and complete two of the following courses (6 cr):

- CRJ 2010 - Law Enforcement in America 3 cr
- CRJ 2020 - American Judicial Process 3 cr
- CRJ 2080 - Correctional Philosophies and Practices 3 cr

and complete an additional 9 credits in CRJ courses (9 cr)

Total credits required: 18 cr

## **Economics Minor (ECO)**

This minor in Economics is offered by the HGEP Department. Upon completion of the minor, students will succeed in analytically and historically integrating contemporary economic events—both market and policy based into their world view(s).

Complete the following courses (12 cr):

- ECO 1040 - Global Economic Issues 3 cr or ECO 3220 - International Trade and Development 3 cr
- ECO 2040 - Macroeconomics in a Global Context 3 cr
- ECO 2050 - Microeconomics in a Global Context 3 cr
- ECO 3210 - Great Ideas in Economics 3 cr

and 6 additional credits from the following:

- ECO 1010 - Economics and Society 3 cr
- ECO 1030 - The Economics of Wealth and Poverty 3 cr
- ECO 2120 - U.S. Economic History 3 cr
- ECO 2910 - Independent Study 1-3 cr
- ECO 3020 - Money, Banking, and the Financial Services Sector 3 cr
- ECO 3050 - Women in the Economy 3 cr
- ECO 3060 - Political Economy of the Environment 3 cr
- ECO 3240 - Intermediate Macroeconomics 3 cr
- ECO 3250 - Intermediate Microeconomics 3 cr
- ECO 3810 - Internship in Economics 1-12 cr
- ECO 4910 - Independent Study 1-3 cr

Note:

- At least 6 of the credits overall toward this minor must be at the 3000 level or above.
- A maximum of 6 credits of independent study or internship may be applied to this minor.

Total credits required: 18 cr

## **English Minor (ENG)**

This minor is offered by the English Department.

Students can earn a minor in English by completing 18 credits of English courses beyond:

- ENG 1061 - English Composition 3 cr
- ENG 1070 - Effective Speaking 3 cr
- ENG 2260 - Touchstones of Western Literature (L) 3 cr

## **Environmental Studies Minor (ENV)**

The Environmental Studies minor is offered by the HGEP Department. Upon completion of the minor, students will be able to demonstrate their ability to live, work and participate in a diverse natural world where differences in perspective, the product of democratic politics, are to be expected.

Complete the following courses (12 cr):

- ENV 1210 - Environmental Harm and Mitigation Strategies 3 cr
- POS 2310 - Environmental Politics 3 cr
- PHI 3160 - Environmental Ethics 3 cr
- ENV 3080 - Globalization and the Environment 3 cr

Plus 6 additional credits of related work, subject to approval of the coordinator.

Possible courses include, but are not limited to the following:

- ANT 2210 - Anthropology and the Environment 3 cr
- ECO 3060 - Political Economy of the Environment 3 cr
- ENV 2910 - Independent Study 1-3 cr
- ENV 3810 - Internship in Environmental Studies 1-12 cr
- ENV 4910 - Independent Study 1-3 cr
- GEY 1040 - Environmental Geology 4 cr

Total credits required: 18 cr

## **Fitness/Sport Science Minor (FIT)**

The Fitness/Sports Science minor is offered by the Department of Health, Human Movement, & Sport.

Required Courses:

- AHS 2150 - Designs for Fitness 3 cr
- PED 2070 - Conditioning 2 cr
- PED 2140 - Fitness Center Management 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2210 - Physical Methods of Stress Management 1 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- AHS 2170 - Strength Training Principles 2 cr

Total credits required: 17 cr

## **Geography Minor (GEO)**

The Geography minor, offered by the HGEP Department, is designed to introduce students to the description and analysis of the Earth. Because Geography utilizes tools and techniques found in the natural sciences, social sciences, arts, and humanities, it is a "unifying" discipline that, as a minor, complements many majors offered at Castleton University.

## Complete the following courses:

Six GEO courses, at least two of which must be at the 3000 level or above.

Total credits required: 18 cr

## Geology Minor (GEY)

The Geology minor is offered by the Natural Sciences Department. The minor can be earned by completing at least 20 credits in Geology of which no more than eight credits may be below the 2000 level.

## Global Studies Minor (GLB)

The Global Studies minor is offered by the HGEP Department. The program enables students to complement their major by strengthening their understanding of and engagement with our globally integrated world.

### (A) Complete the introductory GLB course (3 cr):

- GLB 1010 - Introduction to Global Studies 3 cr

### (B) Complete two of the following (6 cr):

- ANT 1010 - Introduction to Cultural Anthropology 3 cr
- ECO 1040 - Global Economic Issues 3 cr
- GEO 2020 - World Regional Geography 3 cr
- HIS 1135 - Global History 3 cr
- POS 1030 - Comparative Politics and Government 3 cr

### (C) Electives (9 cr):

Complete three courses above the 1000 level chosen from the courses listed for the Global Studies (BA.GLB) major. Electives must be selected from regions other than the United States. Prior approval by the Global Studies Coordinator is required.

## Graphic Design Minor (GDS)

The Graphic Design minor is offered by the Art Department.

The Graphic Design Minor requires 18 credits:

- ART 1620 - History of Graphic Design 3 cr
- ART 2221 - Graphic Design I 3 cr
- ART 2222 - Graphic Design II 3 cr
- ART 2510 - Graphic Arts Production 3 cr
- ART 3221 - Graphic Design III 3 cr
- ART 4850 - Portfolio Preparation and Evaluation 3 cr

## Note

This minor is not available to students majoring in Graphic Design (BA.ART.GDS)

## Health Minor (HLT)

The Health minor is offered by the Department of Health, Human Movement, & Sport.

### Complete these required courses (9 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- HED 3030 - Health Behavior Theory 3 cr
- PED 2370 - Community Health 3 cr

### And select four of the following courses (11-12 cr):

- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2120 - Wellness for Life 3 cr
- AHS 3090 - Introduction to Alternative/Complementary Medicine 3 cr
- AHS 3813 - Pharmacology and General Medical Conditions 2 cr
- HED 2310 - Health Education Methods 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 3060 - Women's Health Issues 3 cr
- PED 4020 - Applied Nutrition and Weight Control 3 cr
- PSY 3130 - Health Psychology 3 cr
- SOC 2230 - Death And Dying 3 cr

(Total credits required: 20-21 cr)

## History Minor (HIS)

The 18-credit History minor is offered by the HGEP Department. Upon completion of the History minor, students will be prepared to understand the role of the past in causing current events, conflicts, and problems, and its richness as a source of possible solutions.

### Complete one of the following (3 cr):

- HIS 1125 - The Ancient World 3 cr

-OR-

- HIS 1135 - Global History 3 cr

and complete one of the following (3 cr):

- HIS 1215 - Survey of Early U.S. History 3 cr
- OR-
- HIS 1225 - Survey of Modern U.S. History 3 cr

and complete 12 additional credits in History (HIS) at the 2000-level or above.

Note: No more than 3 credits of Independent Study, and no more than 6 credits in other disciplines cross-listed under History, may be used to fulfill the requirements of the History Minor.

## **Marketing Minor (MKT)**

This minor is offered by the Department of Business Administration. All organizations, regardless of core competencies, have a need for employees trained in marketing. Marketing provides students with the skills necessary for personal and professional success in today's rapidly changing business environment.

The minor requires 18 total credits: BUS 2230 plus five marketing electives from the list below.

A second advisor from within the Department of Business Administration is required.

The Minor in Marketing is not available to Business Administration students.

**Required Course (3 cr):**

- BUS 2230 - Principles of Marketing 3 cr

**And select five of the following Marketing courses (15 cr):**

- BUS 2035 - Content Marketing and Professional Networking 3 cr
- BUS 2320 - Creative Selling and Sales Management 3 cr
- BUS 3060 - Consumer Behavior 3 cr
- BUS 3210 - Advertising 3 cr
- BUS 3245 - Global Marketing 3 cr
- BUS 3270 - Data-Driven Marketing 3 cr
- BUS 3272 - Social Media Marketing 3 cr
- BUS 3290 - Sports Marketing 3 cr
- BUS 4030 - Marketing Research 3 cr
- BUS 4040 - Marketing Strategies 3 cr

**(Total credits required: 18 cr)**

## **Mathematics Minor (MAT)**

This minor is offered by the Mathematics Department.

Complete the following courses:

- MAT 1531 - Calculus I **4 cr**
- MAT 2021 - Statistics I **3 cr**  
OR MAT 3220 - Probability **3 cr**
- MAT 2532 - Calculus II **4 cr**
- MAT 3210 - Linear Algebra **3 cr**
- And two additional 3000 or 4000 level MAT courses **6 cr**

Total credits required: 20 cr

## **Music Minor (MUS)**

A minor in Music may be earned by completing a minimum of 18 credits in Music, 9 of which must be at the 2000 level or above, each with a grade of "C" or better.

The courses must be chosen in consultation with an advisor in the Music Department.

## **Natural Sciences Minor (NAS)**

This minor is offered by the Natural Sciences Department. The minor can be earned by completing at least 20 credits in any combination of Biology, Chemistry, Geology, and Physics courses of which no more than eight credits may be below the 2000 level in a single discipline.

(This minor is not available to Natural Sciences majors, i.e. students majoring in Biology, Chemistry, Ecological Studies, Environmental Science, Exercise Science, Geology, or Health Science.)

### **Note:**

Most laboratory science courses require payments of materials and field trip charges in addition to any textbooks or lab manuals. Also, in laboratory science courses, the ratio of lab hours to lecture hours varies.

## **Philosophy Minor (PHI)**

The Minor in Philosophy requires 18 credits in Philosophy courses, which may include POS 3221 - Political Philosophy I and POS 3222 - Political Philosophy II.

## **Photography Minor (PHO)**

The Photography Minor, offered by the Art Department, requires 18 credits:

Complete the introductory course (3 cr):

- ART 2301 - Photography I 3 cr

And choose 1 of the following (3 cr):

- ART 1610 - History of Photography 3 cr
- ARH 3070 - Art Since 1945 3 cr

And choose 1 of the following (3 cr):

- ART 1410 - Digital Photography I 3 cr

And complete these 3 courses (9 cr):

- ART 2302 - Photography II 3 cr
- ART 3303 - Photography III 3 cr
- ART 4304 - Photography IV 3 cr

## Note

This minor is not available to students majoring in Photography (BA.ART.PHO)

## **Physical Education Minor (PED)**

This minor is offered by the Department of Health, Human Movement, & Sport.

Complete these required courses (12 cr):

- PED 1015 - Introduction to Health and Physical Education 3 cr
- PED 2160 - Emergency Care and Personal Safety 3 cr
- PED 2410 - Curriculum and Instruction in Physical Education 3 cr
- PED 2420 - Foundations of Teaching Health and Physical Education 3 cr

and complete one of these courses (3 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- PED 2370 - Community Health 3 cr
- HED 2310 - Health Education Methods 3 cr

and complete one of these courses (1-2 cr):

- DAN 1050 - Aerobic Dance 1 cr
- DAN 2020 - Teaching Rhythms And Dance 2 cr



and complete these life activity requirements (4 cr):

- Two Team Sport courses
- Two Individual Pursuit courses

(View the list of courses)

Total credits required: 20-21 cr

## Political Science Minor (POS)

The Political Science Minor is offered by the HGEP Department. Upon completion of the minor, students will be able to demonstrate understanding of the sources and exercise of power.

Complete 18 credits in Political Science, chosen in consultation with the Political Science Coordinator. No more than 6 credits in courses cross-listed in Political Science (POS) may be used to fulfill the Politics Minor requirements.

## Psychology Minor (PSY)

This minor is offered by the Department of Psychological Sciences. Complete 21 credits in Psychology to include at least two 4000-level courses or seminars.

## School Health Education Minor (SED)

The School Health Education minor is offered by the Department of Health, Human Movement, & Sport. The minor prepares Physical Education Teaching Education (PETE) majors for a second teacher licensure endorsement in Health Education through the Vermont Agency of Education transcript review process. (Many schools that are searching for a Physical Educator will only offer a position to those who are dual credentialed in Health and Physical Education.)

Courses required by the Vermont Agency of Education are a part of this minor.

Complete the following courses (22 cr):

- AHS 1010 - Contemporary Health Issues 3 cr
- AHS 2030 - Drug and Alcohol Curriculum 3 cr
- AHS 2120 - Wellness for Life 3 cr
- HED 2310 - Health Education Methods 3 cr
- PED 2370 - Community Health 3 cr
- And take one of the following:
- BIO 2011 - Human Anatomy and Physiology I 4 cr  
-OR-
- BIO 2012 - Human Anatomy and Physiology II 4 cr  
And take one of the following:
- PSY 1050 - Human Growth and Development 3 cr  
-OR-
- PSY 3265 - Child and Adolescent Development 3 cr

And complete one of these three options (4-7 cr):

### Students seeking Elementary Health Education License

- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
- HED 4811 - Elementary Health Education Practicum 1-2 cr

### Students seeking Secondary Health Education License

- HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr
- HED 4812 - Secondary Health Education Practicum 1-2 cr

### Students seeking Elementary AND Secondary Health Education License

- Take **one** of the following:
- HED 3010 - Elementary Health Education Curriculum & Assessment 3 cr
  - OR-
  - HED 3020 - Secondary Health Education Curriculum & Assessment 3 cr
- And take **both** of these:
- HED 4811 - Elementary Health Education Practicum 1-2 cr
  - HED 4812 - Secondary Health Education Practicum 1-2 cr

(Total credits required: 26-29 cr)

## **Sociology Minor (SOC)**

A minor in Sociology can be earned by completing 18 credits in SOC and/or ANT courses. The minor is offered by the Department of Sociology, Social Work, and Criminal Justice.

## **Spanish Studies Minor (SPA)**

The Spanish Studies Minor is offered by the World Languages Department. Complete a minimum of 18 credits in Spanish courses at the 2000 level or above, of which at least three credits are in language skills courses at the 3000 level.

## **Statistics Minor (STA)**

The Statistics Minor is offered by the Mathematics Department.

Complete the following courses (13 cr):

- MAT 2021 - Statistics I 3 cr
- MAT 2022 - Statistics II 3 cr
- MAT 3250 - Applied Statistics 3 cr

- MAT 1531 - Calculus I 4 cr

and complete at least 6 credits from the following:

- BUS 4030 - Marketing Research 3 cr
- BUS 4110 - Operations Management 3 cr
- BUS 4130 - Quantitative Business Decisions 3 cr
- CHE 2111 - Organic Chemistry I 4 cr
- CHE 2112 - Organic Chemistry II 4 cr
- MAT 4010 - Design of Experiments 3 cr
- MAT 4020 - Applied Linear Regression 3 cr
- PED 4920 - Senior Research Project 3 cr
- PSY 3151 - Psychological Research I 4 cr
- PSY 3152 - Psychological Research II 4 cr
- SOC 3910 - Research Methods 4 cr
- or other courses approved by the Mathematics Department

Total credits required: 19 cr

## **Studio Art Minor (ART)**

The Studio Art Minor is offered by the Art Department. The minor requires 18 credits:

Complete these 2 courses (6 cr):

- ART 1011 - Drawing I 3 cr
- ART 1020 - Introduction to Studio Arts 3 cr

And choose 1 of the following (3 cr):

- ARH 2011 - Survey of Western Art I 3 cr
- ARH 2012 - Survey of Western Art II 3 cr
- ARH 3052 - History of Twentieth Century Art 3 cr
- ARH 3070 - Art Since 1945 3 cr

And choose 2 of the following Level I courses (6 cr):

- ART 1011 - Drawing I 3 cr
- ART 2211 - Painting I 3 cr
- ART 2301 - Photography I 3 cr
- ART 2311 - Printmaking I 3 cr
- ART 2251 - Sculpture I 3 cr

And choose 1 of the following Level II courses (3 cr):

- ART 2212 - Painting II 3 cr
- ART 2302 - Photography II 3 cr
- ART 2312 - Printmaking II 3 cr
- ART 2252 - Sculpture II 3 cr
- ART 2012 - Drawing II 3 cr OR ART 3011 - Drawing III 3cr

## Note

This minor is not available to students majoring in Studio Art (BA.ART.STA)

## Theater Arts Minor (THA)

Any student may earn a minor in Theater Arts by completing 18 credits in the Theater Arts Department. A minimum of 12 credits must be at the 2000 level or higher. Students are advised to work with a departmental advisor to develop a sequential course of study.

## Women's and Gender Studies Minor (WGS)

Complete the following course:

- WGS 1020 - Introduction to Women's And Gender Studies 3 cr

and complete at least 15 credits from following list of courses:

- COM 2140 - Race, Gender and Sexuality in Media 3 cr
- CRJ 3040 - Women and Criminal Justice 3 cr
- ECO 3050 - Women in the Economy 3 cr
- ENG 3610 - Women Writers (L) 3 cr
- HIS 2210 - History of Women in the U.S. 3 cr
- HIS 3345 - Masculinities in Modern Europe 3 cr
- HIS 3450 - Women in European History 3 cr
- HIS 3475 - Women and Gender in African History 3 cr
- PED 3060 - Women's Health Issues 3 cr
- PSY 1050 - Human Growth and Development 3 cr
- PSY 3240 - Social Development 3 cr
- PSY 4230 - Psychology of Rape 3 cr
- SOC 1030 - Social Problems 3 cr
- SOC 2040 - Race, Ethnicity, Class and Gender 3 cr
- SOC 2170 - Gender Studies 3 cr
- SOC 3610 - Seminar in Advocacy 4 cr
- SPA 3160 - Latin American Women Writers 3 cr
- SWK 2020 - Family Violence 3 cr
- SWK 2030 - Human Sexuality 3 cr
- WGS 2080 - Thinking Bodies 3 cr  
or SOC 2080 - Thinking Bodies 3 cr
- WGS 2710 - Special Topics 3 cr

- WGS 2910 - Independent Study **1-3 cr**
- WGS 3210 - Feminist Thought **3 cr**
- WGS 3310 - Feminist Methods: Research and Action **3 cr**
- WGS 3710 - Special Topics **3 cr**
- WGS 3910 - Independent Study **1-3 cr**
- WGS 4510 - Activism and Advocacy Project in WGS **3 cr**
- WGS 4610 - Senior Project in Women's and Gender Studies **3 cr**
- WGS 4810 - Field Experience in Women's and Gender Studies **3-6 cr**
- WGS 4820 - Internship in Women's and Gender Studies **1-6 cr**
- WGS 4910 - Independent Study **1-3 cr**

**(Total credits required: 18 cr)**

With prior approval of the Women's and Gender Studies Coordinator, other designated courses may be taken to fulfill the minor. These courses are offered on demand, with the topic announced at registration and the Women's and Gender Studies option indicated in the course description.

## **Writing Minor (WRI)**

The minor in writing offers students practice at a variety of writing so that they can prepare for writing as a career or writing in their careers. Students can earn a minor in writing by completing 18 credits from the courses listed below. Courses completed for the minor cannot also be counted toward major requirements in other fields. Decisions about adding and dropping courses from the list, about substituting one course for another, and about the possibilities for independent study rest with the English Department, which sponsors this minor and consults with other departments that offer or wish to offer courses within the minor.

**Complete 18 credits selected from:**

- BUS 2370 - Business Communications **3 cr**
- COM 3060 - Feature Writing **3 cr**
- ENG 2010 - Expository and Argumentative Writing **3 cr**
- ENG 2101 - Creative Writing **3 cr**
- ENG 3060 - Technical and Professional Writing **3 cr**
- ENG 3070 - Writing Non-Fiction **3 cr**
- ENG 3750 - Special Topics in Writing **3 cr**
- ENG 3690 - The English Language: Grammar **3 cr**
- ENG 4040 - Advanced Creative Writing **3 cr**

## **Graduate Degrees**

### **MS in Accounting**

Master of Science in Accounting: **see the Graduate Catalog**

### **MA in Arts Administration**

Master of Arts in Arts Administration: **see the Graduate Catalog**

## **MS in Athletic Leadership**

Master of Science in Athletic Leadership: **see the Graduate Catalog**

## **MA in Education: Curriculum and Instruction**

Master of Arts in Education: Curriculum and Instruction: **see the Graduate Catalog**

## **MA in Education: Curriculum & Instruction: Applied Behavior Analysis**

Master of Arts in Education: Curriculum and Instruction: Applied Behavior Analysis: **see the Graduate Catalog**

## **MA in Education: Educational Leadership (School Principal Licensure)**

Master of Arts in Educational Leadership: **see the Graduate Catalog**

## **MA in Education: Special Education**

Master of Arts in Education: Special Education: **see the Graduate Catalog**

## **MA in Education: Specialization in Mathematics**

Master of Arts in Education: Specialization in Mathematics: **see the Graduate Catalog**

## **MM in Music Education**

Master of Music in Music Education: **see the Graduate Catalog**

## **MA in School Psychology**

Master of Arts in School Psychology: **see the Graduate Catalog**

## **MA in Theater**

Master of Arts in Theater: **see the Graduate Catalog**

## **Course Descriptions**

# Accounting

*Other relevant courses may be found under Business Administration or Computer Information Systems.*

## **ACC 2101 - Accounting I**

**3 cr** This course examines the role that accounting information plays in decision-making and the importance of income, cash flows, and financial position to organizations. Issues are considered from a variety of users' viewpoints. Included in the course will be (1) a focus on analytic and problem-solving skills, (2) technological and communication skill development, and (3) an awareness of ethical and public policy issues.

*Basic computer skills in Microsoft Excel and Word are required.*

*Materials charge \$20.*

*Fall*

## **ACC 3010 - Accounting for Management Decisions**

**3 cr** This course examines the use of accounting information to enhance decision-making and control of for-profit, not-for-profit, and governmental organizations. The major topics in this course include the use of accounting in making alternative choice decisions, the development and use of product cost information, as well as the creation of operating and capital budgets.

*Prerequisite: ACC 2101*

*Fee \$20*

*Every Semester*

## **ACC 3211 - Corporate Financial Reporting I**

**3 cr** This is the first course in a three-course sequence that provides an in-depth study of generally accepted accounting principles (GAAP) necessary to prepare and comprehend corporate financial reports. The course focuses on the accounting cycle, the conceptual framework, and financial statement preparation. Students are required to perform accounting research, utilize Excel as a problem-solving tool, and utilize Word as a communication tool. U.S. GAAP is emphasized but international GAAP is also considered.

*Prerequisite: ACC 2101 and ACC 3010*

*Fall*

## **ACC 3212 - Corporate Financial Reporting II**

**3 cr** This is the second course in a three-course sequence that provides an in-depth study of generally accepted accounting principles (GAAP) necessary to prepare and comprehend corporate financial reports. This course focuses on recording and reporting issues involving assets, liability, and equity accounts. Students are required to perform accounting research, utilize Excel as a problem-solving tool, and utilize Word as a communication tool. U.S. GAAP is emphasized but international GAAP is also considered.

*Prerequisite: ACC 3211*

*Spring*

## **ACC 3810 - Internship in Accounting**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration.

## **ACC 4010 - Accounting Information Systems**

**3 cr** This course will analyze the development, maintenance, and control of the accounting system. It will focus on manual and/or computer-based systems.

*Prerequisite: ACC 3212*

*Fall*

## **ACC 4041 - Income Tax I**

**3 cr** This course focuses on the concepts and logic that form the foundation of federal income tax law. Current tax law is examined in the context of these concepts. Various taxable entities are considered but the primary focus is on the individual and small business. Full coverage of federal income tax law requires that tax return preparation and tax law research also be included.

*Prerequisite: ACC 3212*

*Co-requisite: ACC 4041L*

*Materials charge \$20.*

*Spring*

## **ACC 4041L - Individual Tax Preparation**

**1 cr** This course is designed to provide students with real-world experience in income tax preparation. Students will be required to complete the Internal Revenue Service's VITA/TCE Curriculum and obtain IRS certification to participate in the Voluntary Income Tax Assistance or Tax Counseling for the Elderly. Students will volunteer for a minimum of thirty-three hours per semester (approximately three hours per week) at either a VITA or TCE site for the period the site is open.

*Prerequisite: ACC 4041 Concurrently.*

*Spring*

## **ACC 4050 - Auditing and Assurance Services**

**3 cr** Auditing introduces principles and procedures of gathering evidence in accordance with generally accepted auditing standards in order to form an opinion on the "fairness of presentation" of financial statements. The role of risk assessment in the audit environment and the nature of attestation and assurance services are examined.

*Prerequisite: ACC 4010*

*Spring*

## **ACC 4213 - Corporate Financial Reporting III**

**3 cr** This is the third course in a three-course sequence that provides an in-depth study of generally accepted accounting principles (GAAP) necessary to prepare and comprehend corporate financial reports. This course focuses on recording and reporting issues involving leases, income taxes, debt, equity, and compensation. Students are required to perform accounting research, utilize Excel as a problem-solving tool, and utilize Word as a communication tool. U.S. GAAP is emphasized but international GAAP is also considered.

*Prerequisite: ACC 3212*

*Fall*

## **ACC 4810 - Internship in Accounting**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed



through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration.

## **Allied Health Sciences**

*Other relevant courses may be found under Biology and Physical Education.*

### **AHS 1010 - Contemporary Health Issues**

**3 cr** Exploration of the aspects of life that have a great impact on your health, in order to develop the decision making skills needed to make intelligent, informed health care choices throughout life.

*Fall*

### **AHS 1060 - Introduction to the Athletic Training Profession**

**2 cr** This introductory course investigates the educational and professional requirements necessary to become a Certified Athletic Trainer. Topics of discussion will include the history and structure of the National Athletic Trainers Association, requirements to sit for the Board of Certification examination, Castleton University Athletic Training Program requirements, Castleton athletic training room duties and responsibilities, and the role of the athletic training professional in the sports medicine setting. The course also includes the use of basic therapeutic modalities and a practical study of the application of athletic taping and wrapping techniques.

*Fall*

### **AHS 1070 - Basic Athletic Training**

**3 cr** An investigation into the prevention, subsequent treatment and management of common orthopedic injuries. The course includes basic anatomy, use of therapeutic modalities, and principles of athletic conditioning. A practical study of applying athletic tape and wraps is included.

*Lab fee \$30.*

*Every Semester*

### **AHS 2030 - Drug and Alcohol Curriculum**

**3 cr** This course will examine the issues of alcohol and drug education and will explore various curriculum models and teaching strategies. Integrating into subject areas and implementation in school systems will be discussed.

*Prerequisite: HED 2310 or permission of instructor.*

*Fall*

### **AHS 2120 - Wellness for Life**

**3 cr** This course investigates the components involved in developing a healthy lifestyle with an emphasis on the physical nature of wellness. Attention is principally devoted to the components of fitness to include cardiovascular endurance, muscular strength, and flexibility. In addition, an overview of dietary practices and nutrition, protecting oneself from disease including coronary heart disease, cancer, sexually transmitted diseases and HIV/AIDS and making responsible decisions regarding controlled substances such as tobacco, alcohol, and other drugs will be covered.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Every semester*

### **AHS 2150 - Designs for Fitness**

**3 cr** This course investigates the basic components of fitness. Topics include: fitness assessment testing, individualized exercise prescriptions, team conditioning programs, risk factor analysis and chronic disease prevention, behavior modification, nutrition and weight control, body composition analysis, hydration and heat illness prevention, physiological effects of training and overtraining.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Every semester*

### **AHS 2151 - Evaluation and Management of Injuries to the Lower Extremity**

**3 cr** An investigation into the anatomy, injury mechanism, evaluation and management of orthopedic injuries to the lower extremity. The student will learn the cognitive and psycho motor process involved in both on field and clinical evaluations of sport related injuries. Advanced management procedures will be included.

*Prerequisite: AHS 2160*

*Fall*

### **AHS 2152 - Evaluation and Management of Injuries to the Upper Extremity**

**3 cr** An investigation into the anatomy, injury mechanism, evaluation and management of orthopedic injuries to the upper extremity. The student will learn the cognitive and psycho motor processes involved in both on field and clinical evaluations of sport related injuries. Advanced management procedures will be included.

*Prerequisite: Advanced standing (accepted into the Athletic Training Education Program), or permission of instructor.*

*Spring*

### **AHS 2160 - Anatomical Aspects of Sports Medicine**

**3 cr** This course will investigate the structure and function of the gross anatomy involved in athletic injuries and sports medicine. Topics include: joint structure and biomechanics, tissues, articulations, supportive and connective tissue arrangement, skeletal and neurological systems.

*Prerequisite: BIO 2011*

*Spring*

### **AHS 2161 - Introduction to Myofascia Release**

**3 cr** This course is an introduction to the body's complex and fascinating fascia system, and the massage techniques that bring about the release of fascial restrictions. The student will learn to provide massages with advanced methods of relieving chronic tension and pain, and restoring full motion in the body.

*Prerequisite: BIO 2011*

*Spring*

### **AHS 2170 - Strength Training Principles**

**2 cr** Strength Training Principles is a course designed to develop the student's knowledge in the techniques and theories of strength training. Focus will be on proper lifting technique and safety. Secondary attention will be devoted to designing strength-training programs. This is an activity class and participation is mandatory.

*Every semester*

### **AHS 2340 - Introduction to Therapeutic Exercise**

**2 cr** This course investigates the planning and implementation of a comprehensive rehabilitation program for injuries/illnesses sustained by the competitive athlete. Topics include determination of therapeutic goals and objectives, methods of recording rehabilitation progress and the theory and principles associated with the use of

specific therapeutic exercise techniques. Strategies for injury prevention and corrective movement will also be explored. This course follows a lecture/lab format combining the theoretical with hands on experience.

*Prerequisite: AHS 1070 or AHS 2160*

*Spring*

## **AHS 2510 - Therapeutic Interventions I**

**3 cr** This is a first course of a two-semester course sequence that studies therapeutic interventions as it relates to orthopedic injuries. This course follows a lecture/lab format combining the theoretical with hands-on experience. A study of inflammation, pain theories, and tissue healing is included. This course investigates application of therapeutic modalities (ice, heat, electronic stimulation, ultrasound, laser, and intermittent compression) and implementation of a comprehensive rehabilitation program that restores normal function.

*Prerequisite: AHS 2151*

*Spring*

## **AHS 2810 - Internship in Health Science**

**1-3 cr** See Internships. Signed contract is required at time of registration.

BS.HLT majors only.

*Every semester*

## **AHS 2821 - Athletic Training Clinical I**

**2 cr** This course enables the student to work one-on-one with a preceptor in order to demonstrate proficiency in various athletic training skills. These skills have been learned and practiced in prior coursework. When demonstrating a clinical proficiency, the student must analyze a problem, consider the facts at hand, and make decisions about the appropriate course of action. In this clinical course the student will be responsible for demonstrating proficiency in lower extremity evaluations and emergency care of the injured athlete. In addition, the student will complete a field experience assignment and participate in an on-line journal forum to meet the requirements of this course.

*Prerequisite: AHS 2151 and PED 2160*

*Fee \$50*

*Spring*

## **AHS 2840 - Practicum in Athletic Training**

**2 cr** This course will focus on the topics of selection and fitting of protective equipment, recognition and management of environmental injuries and illnesses, and psychosocial intervention and referral in athletics training. Students will also attend the annual athletic training preseason camp, and complete a practical field experience in an athletic training clinical setting.

*Prerequisite: Students must be formally accepted into the Athletic Training Education Program*

*Fee \$50*

*Fall*

## **AHS 3090 - Introduction to Alternative/Complementary Medicine**

**3 cr** The purpose of this course is to introduce the learner to the theory and practice of the most widely used complementary and alternative therapies. Such as, but not limited to: "alternative" medical systems, mind/body treatment approaches, bodywork, and dietary supplements. This course will focus on informing the participants and future practitioners [which may include all appropriate majors] about these systems, treatment approaches/therapies, and supplementation methods, thus empowering participants to include these options, where appropriate, into the

decision making process related to attaining and maintaining high level wellness for themselves and their future clients.  
*Periodically*

### **AHS 3120 - Kinesiology**

**3 cr** This course is designed to present information concerning the study of human movement. The primary emphasis is on the investigation of the mechanics of movement in order to provide the student with an ability to analyze and correct physical skills and movement patterns. In addition, laboratory sessions are designed to enhance the understanding of the topics covered in lecture.

*Prerequisite: BIO 2012*

*Every semester*

### **AHS 3140 - Administration of Athletic Training and Sports Medicine Programs**

**3 cr** This course investigates the planning, coordination and supervision of all administrative components of an athletic training and sports medicine program. Topics to be considered include basic legal concepts in sports medicine, medical/allied health care personnel and referral procedures, safety standards and policies, basic record and forms pertaining to the management of athletic injuries, computer application in sports medicine, drug testing and screening, budget preparation and financial management, athletic training room management, personnel management, ethical and public relations.

*Prerequisite: Advanced standing (accepted into the Athletic Training Program).*

*Fall, odd years*

### **AHS 3150 - Physiology of Exercise**

**4 cr** (Cross listed with BIO 3151.)

An examination of the acute and chronic physiological responses to exercise. Muscle, renal, endocrine and environmental physiology, energy metabolism, and cardiovascular function in response to exercise training will be emphasized and applied to laboratory activities.

*Prerequisite: BIO 2011 and BIO 2012*

*Fee \$50*

*Every semester*

### **AHS 3510 - Therapeutic Interventions II**

**3 cr** This is the second course of a two-semester course sequence that studies therapeutic interventions as it relates to orthopedic injuries. This course follows a lecture/lab format combining the theoretical with hands on experience. This course continues the discussion of therapeutic interventions (modalities and rehabilitation) and includes specific scenario based comprehensive applications. Also included is a study of surgical techniques and the therapeutic interventions used following surgery.

*Prerequisite: AHS 2510 and AHS 2151 or AHS 2152*

*Fall*

### **AHS 3811 - Evaluation and Management of Injuries to the Head, Neck, and Trunk**

**2 cr** This course is designed to develop knowledge and skills in the evaluation and management of injuries to the head, neck, and trunk. The student will demonstrate proficiency in various cognitive and psychomotor skills that an entry-level athletic trainer must possess in order to evaluate injuries and illnesses of athletes and others involved in physical activity and to determine proper care, referring the client to other health care providers when appropriate.

*Prerequisite: AHS 2151 or AHS 2152, or permission of instructor.*

*Spring*

## **AHS 3813 - Pharmacology and General Medical Conditions**

**2 cr** This course is designed to develop the knowledge, skills, and values that the entry-level athletic trainer must possess in pharmacologic applications relevant to the treatment of injuries to and illnesses of athletes and others involved in physical activity. In addition, the student will learn to recognize, treat, and refer, when appropriate, the general medical conditions and disabilities of athletes and others involved in physical activity.

*Prerequisite: AHS 2510 or permission of instructor.*

*Fall*

## **AHS 3820 - Practicum in Exercise Leadership**

**3 cr**

This service-learning course will allow students to apply acquired knowledge and skills in exercise testing and prescription to lead adults from the community in tailored exercise programs. Clients who have chronic illnesses such as heart disease, arthritis, or diabetes may be referred by local health practitioners. Students will work in the gym directly with clients performing physical fitness tests, implementing exercise plans, and monitoring progress. This course is for future exercise science, allied health professionals, and nurses who would like to gain practical experience working with a population older than university students.

*Prerequisite: AHS 3150 or permission of instructor*

## **AHS 3822 - Athletic Training Clinical II**

**2 cr** This course enables the student to work one-on-one with a Preceptor in order to demonstrate proficiency in various athletic training skills. These skills have been learned and practiced in prior coursework. In this clinical course the student will be responsible for demonstrating proficiency in the comprehensive clinical examination and management of patients with upper extremity injuries. The student will create and implement therapeutic interventions for upper and lower extremity injuries. In addition, the student will attend the annual athletic training preseason camp, complete a field experience assignment, participate in an on-line journal forum, and pass the Level II Program Competency Exam.

*Prerequisite: AHS 2152 and AHS 2157*

*Course fee \$50*

*Fall*

## **AHS 3823 - Athletic Training Clinical III**

**2 cr** This course enables the student to work one-on-one with a preceptor in order to demonstrate proficiency in various athletic training skills. These skills have been learned and practiced in prior coursework. When demonstrating a clinical proficiency, the student must analyze a problem, consider the facts at hand, and make decisions about the appropriate course of action. In this clinical course the student will be responsible for demonstrating proficiency in therapeutic modalities and psycho-social aspects of physical activity. In addition, the student will complete a field experience assignment and participate in an on-line journal forum to meet the requirements of this course.

*Prerequisite: AHS 3510 and PED 2120*

*Fee \$50*

*Spring*

## **AHS 4152 - Pathophysiology and Clinical Exercise Physiology**

**3 cr** This course concentrates on the pathophysiology of selected diseases and the role of exercise. The diseases covered include cardiac, pulmonary, immune, metabolic, neuromuscular, and renal diseases. This information is

important for those students who have an interest in clinical exercise physiology.

*Prerequisite: AHS 3150/BIO 3151*

*Fall, odd years*

## **AHS 4160 - Clinical Exercise Testing and Prescription**

**4 cr** This course is designed as a practical study of current fitness testing protocols used in various fitness and clinical settings. Emphasis is placed on preparation, administration, and evaluation of various graded exercise testing protocols. In addition, students will gain experience in the area of exercise prescription for various populations based on the American College of Sports Medicine guidelines.

Lecture and lab.

Restrictions: Athletic Training, Exercise Science, and Health Science Majors Only.

*Prerequisite: AHS 3150 and AHS 4250 or permission of instructor.*

*Lab fee \$50*

*Spring*

## **AHS 4170 - Enhancement of Athletic Performance**

**3 cr** This course focuses on the use of substances, programming, and recovery techniques that are used to improve athletic performance and adaptation to exercise. Focus will be given to both legal and illegal drugs, legal substances that are prohibited by organizations such as NCAA and WADA, and those substances that are both legal and allowed by the various athletic governing bodies.

*Prerequisite: AHS 3150*

*Periodically*

## **AHS 4220 - Scientific Foundations of Strength and Conditioning I**

**3 cr** This is the first part of a two course sequence. The content of the fall semester course is designed to provide students with a comprehensive review of muscle and cardiovascular physiology, biochemistry, and endocrinology related to the principles of strength training and conditioning. This course will also assist those students who desire to take the National Strength and Conditioning Association's Certified Strength and Conditioning (CSCS) exam.

*Prerequisite: AHS 2170 and AHS 3150*

*Fall*

## **AHS 4221 - Scientific Foundations of Strength and Conditioning II**

**3 cr** This is a continuation of AHS 4220. Emphasis will be placed on sport analysis, program design, and facility management. The final weeks of this course will be spent reviewing and preparing students to sit for the National Strength and Conditioning Association's Certified Strength and Conditioning (CSCS) exam.

*Prerequisite: AHS 4220*

*Spring*

## **AHS 4250 - Clinical Electrocardiography**

**3 cr** The objective of this course is for students to learn cardiac function and electrophysiology. Focus will be given to interpretation of electrocardiography (ECG) testing data for the purpose of identifying normal function and pathological conditions.

*Prerequisite: AHS 3150*

*Fee \$50*

*Fall*

## **AHS 4260 - Nutrient Metabolism and Athletic Performance**

**3 cr** The course focuses on the mechanisms of energy production and expenditure involved in cellular metabolism with a special emphasis on carbohydrate, lipid, and protein metabolism. Relationships between optimal nutrition and sports and exercise, thermoregulation and fluid balance, and ergogenic aids on physical performance will be covered.

*Prerequisite: AHS 3150 and CHE 1041 or CHE 1051*

*Spring*

## **AHS 4620 - Senior Seminar in Athletic Training**

**2 cr** This final culminating course will prepare senior students in the athletic training education program for the BOC examination. Resume writing, public speaking and other professional preparation activities will be included.

*Prerequisite: Advanced standing in the Athletic Training Education Program.*

*Lab Fee \$30.*

*Fall*

## **AHS 4824 - Athletic Training Clinical IV**

**2 cr** This course enables the student to work one-on-one with a Preceptor in order to demonstrate proficiency in various athletic training clinical integration skills. These skills have been learned and practiced in prior coursework. In this clinical course the student will be responsible for demonstrating proficiency in design, implementation, evaluation, and modification of exercise and wellness programs. Proficiency in the evaluation and management of injuries to the head, neck and trunk will be assessed. In addition, the student will attend the annual athletic training preseason camp, complete a field experience exercise assignment and participate in an on-line journal forum.

*Prerequisite: AHS 1010, AHS 2170, AHS 3811, and PED 4020, or permission of instructor.*

*Fee \$50*

*Fall*

## **AHS 4825 - Athletic Training Clinical V**

**2 cr** This course enables the student to work one-on-one with a preceptor in order to demonstrate proficiency in various athletic training skills. These skills have been learned and practiced in prior coursework. When demonstrating a clinical proficiency, the student must analyze a problem, consider the facts at hand, and make decisions about the appropriate course of action. In this clinical course the student will be responsible for demonstrating proficiency in the use of standard protective equipment to prevent or minimize athletic injuries, evaluation and management of environmental illnesses, and recognition and treatment of common general medical conditions. During this clinical, the student will demonstrate proper utilization of patient files. In addition, the student will complete a field experience assignment and participate in an on-line journal discussion board to meet the requirements of this course.

*Prerequisite: AHS 3140 and AHS 3813 or permission of instructor.*

*Fee \$50*

*Spring*

## **AHS 4830 - Internship In Exercise Science**

**1-12 cr** See section on internships. Signed contract is required at time of registration.

## **AHS 4910 - Independent Study**

**1-3 cr** Available by arrangement with a faculty member. A written proposal must be approved by the instructor and the department chair prior to registration.

*Signed contract required at time of registration.  
Prerequisite: Consent of instructor.*

## **AHS 4912 - Senior Research In Exercise Science**

**3 cr** This course is designed to complete the research process initiated in PED 4910 - Senior Thesis. Senior Research in Exercise Science will provide undergraduate students an opportunity to learn to do research under the close guidance of a faculty member. Students will further expand their proposal by developing informed consent and medical history forms, obtain Human Subjects Institutional Review Board (IRB) approval, collect data, perform statistical analysis, and write the discussion and conclusion of the research project. Students will be responsible for presenting their research orally and potentially prepare an abstract/paper for publication.

*Prerequisite: PED 4910 and permission of instructor, Periodically.*

## **Anthropology**

*Other relevant courses may be found under Sociology.*

### **ANT 1010 - Introduction to Cultural Anthropology**

**3 cr** An analysis of the origin and bases of culture. Its major components: cultural variation, cultural evolution, and cultural adaptation. Analysis of selected cultures as case studies.

*This course fulfills the World Views Frame of Reference.*

*Every semester*

### **ANT 2210 - Anthropology and the Environment**

**3 cr** This course explores the interface between culture and the natural environment from a cultural ecological perspective. Through cross-cultural comparisons, with an emphasis on the contrasts between small-scale and large-scale societies, it examines human relationships with nature. Particular attention is given to the effects subsistence practices, economics, politics, and globalization have on a culture's changing attitudes about and behaviors toward the environment.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: SOC 1010 - Introduction to Sociology, or ANT 1010 - Introduction to Cultural Anthropology, or by consent of the instructor.*

*Periodically*

### **ANT 2710 - Selected Topics in Anthropology**

**3 cr** Specialized study in Anthropology with specific topics to be announced prior to each semester. Course offerings will be determined by student demand and faculty availability. Specific topics may include: ethnomusicology, indigenous Americans, culture area studies, archaeology, ethnography, and anthropology theory.

*Prerequisite: ANT 1010.*

*Periodically*

### **ANT 3210 - Anthropology of Food**

**3 cr** The relationship between food, culture, and society, and its role in historical and contemporary cultures is now recognized as a serious field of research and scholarship, especially in anthropology and related fields. Employing an interdisciplinary approach, including culinary history, archeology, economics, diet and nutritional studies, as well as cooking demonstrations, guest cooks, and dining, the course will examine the function and meaning of food and cuisine



as a way to understand cultural invention and identity, social organization, conflict, and social change.

*Prerequisite: ANT 1010, SOC 1010, or consent of the instructor.*

*Lab Fee \$50.*

*Periodically*

## **ANT 4910 - Independent Study**

**3 cr**

## **Arabic**

### **ARA 1011 - Arabic I**

**3 cr** This course is a basic introduction to all aspects of the Arabic language through a comprehensive and integrated method. The focus is on language proficiency in all areas of the language including speaking, reading, and writing. The course also introduces students to aspects of Arabic culture and everyday life in the Middle East.

*Every semester*

### **ARA 1012 - Arabic II**

**3 cr** This is a continuation of Arabic I. The emphasis is on speaking and writing for self-expression with continued study of the basic grammatical structures. Proficiency remains the focus through readings and conversations in the language. Students develop skill in the use of the Arabic dictionary.

## **Art History**

*Other relevant courses may be found under Art.*

### **ARH 1010 - Introduction to the History of Art**

**3 cr** Introduction to principles of aesthetics in art through a chronological study of painting, sculpture, and architecture; prehistoric to the present.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Every semester*

### **ARH 1020 - Critical Periods of Western Art**

**3 cr** A discussion of major issues concerning artists from antiquity to the present.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Spring*

### **ARH 2011 - Survey of Western Art I**

**3 cr** History of Western Art as expressed through architecture, sculpture and painting; Prehistoric to Renaissance art.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Every Semester*

## **ARH 2012 - Survey of Western Art II**

**3 cr** History of Western Art as expressed through architecture, sculpture and painting; Renaissance to the present.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Prerequisite: ARH 2011 if possible.*

*Spring*

## **ARH 2030 - History of Architecture**

**3 cr** History of world architecture from the 5th century B.C. to the present.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Periodically*

## **ARH 2710 - Special Topics in Art History**

**3 cr** Courses may be offered from time to time presenting particular areas for consideration on an advanced level. Topics may include art historical issues of areas of interest not included in our regular course offerings. Lecture or seminar format.

*As topics change, this course may be repeated for credit.*

## **ARH 2910 - Independent Study in Art History**

**3 cr** Available by arrangement with any art faculty. A written proposal must be approved by the instructor and the department chair prior to registration.

*This course is repeatable once for credit.*

*Prerequisite: Consent of instructor, signed contract required.*

## **ARH 3010 - Classical Art: Greece and Rome**

**3 cr** History of Ancient Greek and Roman architecture, sculpture and painting.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Periodically*

## **ARH 3030 - Italian Renaissance Art**

**3 cr** History of architecture, sculpture, and painting in Italy from ca. 1200 to ca. 1600.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Periodically*

## **ARH 3040 - The Art of Medieval Europe**

**3 cr** History of European art and architecture from the fall of Rome through the Romanesque and Gothic periods.

*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*

*Periodically*

## **ARH 3050 - American Art**

**3 cr** History of American art from the Colonial period to 1913.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Fall, even years*

## **ARH 3051 - History of Nineteenth Century Art**

**3 cr** Western painting and sculpture from the late eighteenth century and Neoclassical period to 1900.  
*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*  
*Spring, odd years*

## **ARH 3052 - History of Twentieth Century Art**

**3 cr** European and American painting and sculpture from 1900 to 1945.  
*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*  
*Periodically*

## **ARH 3070 - Art Since 1945**

**3 cr** History of European and American painting and sculpture from 1945 to the present.  
*This course counts towards the Aesthetic Understanding or World Views Frames of Reference.*  
*Periodically*

## **ARH 3910 - Independent Study in Art History**

**3 cr** Available by arrangement with any art faculty. A written proposal must be approved by the instructor and the department chair prior to registration.  
*This course is repeatable once for credit.*  
*Prerequisite: Consent of instructor, signed contract.*

## **ARH 4850 - Capstone Presentation**

**1 cr** Seniors who choose to major in Art History are required to make a 50 minute public presentation based on their immediate and advanced work in art history. The topic should be approved by their advisor. Presentations will be evaluated by the art faculty.  
*Prerequisite: Complete Art History requirements.*

## **ARH 4910 - Independent Study in Art History**

**3 cr** Available by arrangement with any art faculty. A written proposal must be approved by the instructor and the department chair prior to registration.  
*This course is repeatable once for credit.*  
*Prerequisite: Consent of instructor, signed contract required.*

## **Art**

*Other relevant courses may be found under Art History.*

## **ART 1011 - Drawing I**

**3 cr** An investigation of drawing media and techniques with emphasis on rendering from empirical observation. Proportion, anatomy, volume structure and perspective may be investigated. Experience in drawing the human figure and still life.  
*This course counts towards the Aesthetic Understanding Frame of Reference.*

*A studio fee may be required.  
Every semester*

### **ART 1020 - Introduction to Studio Arts**

**3 cr** A studio course designed to introduce the concepts, motivations and theory of making art. Experimentation with various media in the studio environment. Consideration of conceptual and linguistic processes that affect perception. *This course counts towards the Aesthetic Understanding Frame of Reference.*  
*A studio fee may be required.  
Every semester*

### **ART 1030 - Composition and Concepts**

**3 cr** An intensive investigation of visual form and meaning in art. Emphasis is on development of strong perceptual and conceptual bases for further study in art.  
*A studio fee may be required.*

### **ART 1230 - Introduction to Computing in the Arts and Humanities**

**3 cr** (Also listed as COM 1230)  
This course will provide a systematic introduction to the use of computing in the arts and humanities including file management, word processing, electronic mail, the use of the world wide web for research and publication, and basic image editing, web design and page layout. **This course fulfills the Gen Ed computing requirement.**  
*Lab fee: \$15.  
Every semester*

### **ART 1410 - Digital Photography I**

**3 cr** (Also listed as COM 1410 )  
The student will explore the mechanical and electronic aspects of digital photography, as well as developing some of the basic tools of image manipulation. Instruction will include the aesthetics of digital images.  
*Prerequisite: Digital camera is required.*  
*A studio fee may be required.*

### **ART 1610 - History of Photography**

**3 cr** This course is a survey of the medium of photography from its inception in the early 19<sup>th</sup> century to the present day. Historical developments, aesthetics, theoretical approaches to the medium and the role of photography in art and culture will be addressed.

### **ART 1620 - History of Graphic Design**

**3 cr** This course will focus on the evolution of graphic design and its relationship and influence in and on our culture. It covers early history, the origins of printmaking and typography, and how present technology is changing the face of graphic design.  
*This course counts towards the Aesthetic Understanding Frame of Reference.*

### **ART 2012 - Drawing II**

**3 cr** A studio course emphasizing perceptual and conceptual processes in drawing. Analysis and composition based on observation of natural form, man-made form and the figure. Students may take a second semester for credit.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 1011 or consent of instructor.*

*May have studio fees.*

*Every semester*

## **ART 2040 - Typographic Design**

**3 cr** This class will focus on type and the basic letterform in relation to design. Students will study: letterforms, structure, type families and characteristics, terms and classifications, as well as the evolution of type. Projects will allow students to explore the conceptual thought process needed for expressive typography.

*Prerequisite: ART 2221/COM 2221.*

*A studio fee may be required.*

*Periodically*

## **ART 2130 - Experimental Cinema and Video**

**3 cr** (Also listed as COM 2130)

Students explore video as an artistic medium through group projects, production and critique of individual projects, and viewing and analysis of the work of current video artists. Emphasis is on developing methods to present artistic concepts coherently. Students are encouraged to experiment with modes of narrative, camera and editing techniques and forms of presentation.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*May have studio fees.*

*Periodically*

## **ART 2211 - Painting I**

**3 cr** Beginning strategies for painting in oils or acrylic. Emphasis is on process and investigation of various spatial structures in both representational and nonrepresentational modes. Material and historical concerns are integral parts of this directed investigation. Goals are the development of a formal vocabulary, visual sensitivity and manipulative skills. Recommended for non-majors.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*A studio fee may be required.*

*Every semester*

## **ART 2212 - Painting II**

**3 cr** Theory and practice of painting. Studio experience, critiques and historical reference provide a visual and conceptual basis for further investigation in painting. Students may take a second semester for credit.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 1030 or ART 2211 or consent of instructor.*

*May have Studio fees.*

*Every semester*

## **ART 2215 - Arts of the Southwest**

**3 cr** In this course students will undertake a personal creative challenge to respond to the environment with a variety of media: pencil, watercolor, paint, found objects and more. Elements of design, composition, color theory and experimentation with various media will be included. Basic drawing techniques and watercolor skills will be

developed, working from observation. Additionally students have the opportunity to immerse themselves in the rich artistic traditions of the Southwest, both ancient and cutting-edge contemporary. Museum and gallery visits and student responses to them are an important component to this class.

*This course fulfills the Aesthetic Understanding frame of reference.*

*Course fee \$100*

*Offered only as part of the Santa Fe semester.*

## **ART 2221 - Graphic Design I**

**3 cr** (Also listed as COM 2221)

This course will introduce students to the basic principles, language, and practice of graphic design and teach them how to apply concepts through visual problem solving and communication. Students will also learn the process of design: research, ideation, iteration, implementation, and critique.

*Prerequisite: ART 2510 or consent of the instructor.*

*Studio Fee \$20.*

*Every semester*

## **ART 2222 - Graphic Design II**

**3 cr** (also listed as COM 2222)

This course continues the exploration and application of graphic design, typographic principles, and type/image integration through the conceptualization, creation, and refinement of projects of increasing complexity. Emphasis will be placed on the development of strong concepts and production processes.

*Prerequisite: ART 2221/COM 2221.*

*A studio fee may be required.*

*Spring*

## **ART 2251 - Sculpture I**

**3 cr** Instruction in the theoretical and practical observation of form, space and its dimensional concepts. Abstract interpretation and working directly from the model.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*A studio fee may be required.*

## **ART 2252 - Sculpture II**

**3 cr** Further instruction in the principles of sculptural form using a variety of materials and techniques.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 2251 or consent of instructor.*

*A studio fee may be required.*

*Every semester*

## **ART 2261 - Introduction to Professional Studio Arts**

**3 cr** A studio/critique course for those seriously involved in any visual art medium. Goals of the course are the development of visual, verbal and conceptual skills necessary for long-range involvement in art. Students may take a second semester for credit.

*Prerequisite: Elective for art majors only, sophomore status.*

*Every semester*

## **ART 2301 - Photography I**

**3 cr** An introductory studio course exploring camera techniques, film exposure and black and white darkroom procedures. Emphasis is on photography as an art form and the potential of the medium as a vehicle for personal visual expression. Historical, cultural and aesthetic contexts will be considered. Students must furnish (or have regular access to) their own inexpensive adjustable camera and supplies. Field trips may be included.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*A studio fee may be required.*

## **ART 2302 - Photography II**

**3 cr** This course is designed for the intermediate student working in film-based black and white photography, digital photography, or both. Prior knowledge of the digital camera and Photoshop are assumed for students who wish to work digitally. Technical control and artistic expression are emphasized as students develop their visual perception and awareness of photographic possibilities. Topics covered may include digital scanning and printing, studio lighting, introduction to medium- and large-format cameras and introduction to alternative processes. A 35mm camera with adjustable aperture and shutter speed or a digital camera (preferably a DSLR) is required for the course. Film and paper are not covered by the lab fee.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 2301 or consent of instructor.*

*May have studio fees.*

*Spring*

## **ART 2311 - Printmaking I**

**3 cr** An introduction to relief printing and intaglio processes. Emphasis is on experimentation and exploration of the print as a vehicle of artistic expression. The relationship of printmaking to developing ideas for painting and sculpture is considered.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*May have studio fees.*

*Every semester*

## **ART 2312 - Printmaking II**

**3 cr** Relief, intaglio, monotype, and experimental processes may be explored. Drypoint, engraving, etching and aquatint may be addressed. Emphasis is on conception as well as technique.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 2311 or consent of instructor.*

*May have studio fees.*

*Every semester*

## **ART 2315 - Digital Photography II**

**3 cr** (Also listed as COM 2315 )

Further exploration of aesthetics, composition, design and image modification using digital photography techniques. Students will study advanced techniques for both camera work and software applications designed for digital manipulation. Access to a digital camera is essential.

*Prerequisite:*

*ART 1410*

*A studio fee may be required.*

*Spring*

## **ART 2420 - Introduction to Art Education**

**3 cr** This course provides students with an introduction to teaching art in K-12 school settings. Students will investigate individual and social development, curriculum planning, historical and theoretical issues in art education, as well as instructional and assessment strategies relating to state and national standards. The class will include lecture, discussions, and hands-on activities in a variety of media.

*Fall, odd years*

## **ART 2510 - Graphic Arts Production**

**3 cr** (Also listed as COM 2510 )

An introduction to graphic production using industry standard illustration, photo manipulation and compositing, Web authoring and page layout software. The goal of the class is to obtain basic competence in these applications. Topics covered include vector illustration, image acquisition, color theory, resolution image editing, color correction, IP addresses, types of websites, page creation, linking, CSS, and layout design.

*Prerequisite: ART 1230 /COM 1230*

*A studio fee may be required.*

## **ART 2710 - Special Topics**

**3 cr** Courses may be offered from time to time presenting particular areas for consideration on an advanced level. Topics may include recent art criticism, art historical issues and philosophical and aesthetic concerns of the artist in the studio.

Lecture, seminar.

*Prerequisite: Consent of instructor.*

## **ART 2910 - Independent Study**

**1-3 cr** Available by arrangement with any art faculty member. A written proposal must be approved by the instructor and the department chair prior to registration.

*Signed contract required at time of registration.*

*Prerequisite: Consent of instructor.*

*Every semester*

## **ART 3011 - Drawing III**

**3 cr** Advanced theory and practice of drawing. Examination of ideas and techniques in all drawing media through studio, lecture, critique. Focus is on individual development. Students may take a second semester for credit.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 2012 or consent of instructor.*

*May have studio fees.*

*Every semester*

## **ART 3110 - Children's Book Illustration**

**3 cr** This course deals with the development of narrative imagery, pictorial illusion and space, and their combined potential for communication. Emphasis will be placed on children's book illustration and on approaches to problem-solving and self-expression through a variety of materials and techniques. The history of illustration will be addressed and major trends and artists will be considered.

*A studio fee may be required.*

*Periodically*

## **ART 3113 - Painting III**



**3 cr** A studio course emphasizing the development of intellectual and technical facility through research and experimentation in painting. Objectives of the course include developing a working process to build personal imagery and relating that imagery to historical, formal and technical ideas. Students are encouraged to investigate contemporary thought in art, literature, philosophy, science and other fields. Students may take a second semester for credit.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 2212 or consent of instructor.*

*May have studio fees.*

*Every semester*

### **ART 3130 - Web Graphics and Animation**

**3 cr** Using industry standard software, students learn how to use graphics and animation effectively on the World Wide Web. Students apply graphics and animation techniques to any number of uses including informational, promotional, commercial, and portfolio websites.

*Fall*

### **ART 3131 - Professional Studio Arts I**

**3 cr** A studio/critique course for those seriously involved in any visual art medium. Goals of the course include the development of visual, verbal and conceptual skills necessary for long-range involvement in art. Fulfills program requirements for art majors only. Students may take a second semester for credit.

*Prerequisite: Junior status. Graded only.*

*Every semester*

### **ART 3150 - Art Education: Contemporary Issues and Practice**

**3 cr** This course provides an analysis of current philosophies, theories, and practices in art and education at all levels of instruction. The course revolves around examining appropriate curriculum content, pedagogical approaches and human relations in diverse contemporary classrooms. The class will include lecture, discussions, and hands-on activities in a variety of media relating to state and national standards.

*Fall, even years*

### **ART 3215 - Ceramics in the Southwest**

**3 cr** An introduction to the techniques and practices of creating art with clay. Hand building processes will be thoroughly explored: coil building, slab, pinch and combined techniques. Basic wheel work will be introduced including throwing and trimming. Several firing processes will be explored. Students will examine works of contemporary, historical, and ancient clay artists of the Southwest.

*This course meets the Aesthetic Understanding frame of reference.*

*Course fee \$100*

*This course is offered only as part of the Santa Fe semester.*

### **ART 3221 - Graphic Design III**

**3 cr** This course teaches the development of "branding," an identity system that requires the ability to think strategically about a company's ethos and mission. Topics include: typography, design for publishing, packaging design, and exhibit design.

*Prerequisite: ART 2222*

*A studio fee may be required.*

### **ART 3253 - Sculpture III**

**3 cr** A studio course stressing further exploration of the sculptural process. Students may work in abstract, figurative experimental modes. Emphasis is on individual development and the attainment of a personal direction.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Consent of instructor.*

*A studio fee may be required.*

*Every semester*

### **ART 3303 - Photography III**

**3 cr** The course emphasizes the development of theoretical and conceptual bases for long-range involvement in photography. Black and white analog or digital photographic processes may be employed.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 2302 or consent of instructor.*

*May have studio fees.*

*Spring*

### **ART 3313 - Printmaking III**

**3 cr** An advanced studio for those with a working knowledge of printmaking processes. Emphasis is on the extension and refinement of individual expression and technique.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 2312 or consent of instructor.*

*May have studio fees.*

*Every semester*

### **ART 3810 - Internship in Art**

**1-12 cr** The student assumes a position of responsibility in a professional context (graphic design agency, art museum or other related organization). The internship is designed to meet the needs of students and to connect work experience to academic coursework. It is directed by an on-site supervisor and a faculty member.

*Signed contract required at the time of registration.*

*Prerequisite: Consent of instructor.*

### **ART 3910 - Independent Study**

**1-3 cr** Available by arrangement with any art faculty member. A written proposal must be approved by the instructor and the department chair prior to registration.

*Signed contract required at time of registration.*

*Prerequisite: Consent of instructor.*

### **ART 4011 - Drawing IV**

**3 cr** Drawing as an art form with emphasis on disciplined draftsmanship and the development of the students' ability to work at a conceptually advanced level. Students may take a second semester for credit.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 3011 or consent of instructor.*

*May have studio fees.*

*Every semester*

## **ART 4114 - Painting IV**

**3 cr** Studio experience with an emphasis on excellence in painting and the development of the students' ability to work at a conceptually advanced level. Students may take a second semester for credit.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ART 3113 or consent of instructor.*

*May have studio fees.*

*Every semester*

## **ART 4133 - Professional Studio Arts II**

**3 cr** A studio/critique course for those seriously involved in any visual art medium. Goals of the course include the development of visual, verbal and conceptual skills necessary for long-range involvement in art. Fulfills program requirements for art majors only. Students may take a second semester for credit.

*Prerequisite: Senior status.*

*Every semester*

## **ART 4222 - Graphic Design IV**

**3 cr** Students will explore the web as a communication medium, while providing for a unique user experience. The goal will be to strike a balance between visual design and effective communication. Students will learn the most current techniques for planning, designing, building and testing a fully functional website.

*Prerequisite: ART 3221*

*A studio fee may be required.*

## **ART 4254 - Sculpture IV**

**3 cr** A studio experience in three dimensional form emphasizing the development of advanced conceptual ability as well as expressive and technical skills. Contemporary art practice, theory and criticism will be considered.

*Prerequisite: ART 3253 or consent of instructor.*

*May have studio fees.*

*Every semester*

## **ART 4304 - Photography IV**

**3 cr** In this intensive investigation of photographic form, the student applies critical and technical skills as he or she defines a personal direction in his or her work. The course addresses historical issues and contemporary criticism. Included are master printing in black and white analog form, digital scanning and fine printing, the zone system, medium- and large-format cameras and experimental or alternative processes.

*Prerequisite: ART 3303 or consent of instructor.*

*May have studio fees.*

*Spring*

## **ART 4314 - Printmaking IV**

**3 cr** The refinement of technical skills and the use of printmaking as a vehicle for personal expression are emphasized. Conceptual, aesthetic and critical issues will be considered.

*Prerequisite: ART 3313 or consent of instructor.*

*May have studio fees.*

*Every semester*

## **ART 4850 - Portfolio Preparation and Evaluation**

**3 cr** Senior Portfolio is a capstone course for Graphic Design students, created to help their transition into the professional world. Students are expected to create a professional quality portfolio, with a body of work that exemplifies competence in technical skills and production.

*Prerequisite: Complete graphic design program.*

*A studio fee may be required.*

## **ART 4910 - Independent Study**

**1-3 cr** Available by arrangement with art faculty member. A written proposal must be approved by the instructor and the department chair prior to registration.

*Signed contract required at time of registration.*

*Prerequisite: Consent of instructor.*

## **ART 4920 - Senior Exhibition/Presentation**

**1 cr** Senior art majors who chose painting, printmaking, photography, graphic design or sculpture as their field of concentration are required to mount an exhibition of their work. Majors who elect art history as their chosen field are required to make a public presentation based on their intermediate and advanced coursework in art history. Exhibitions and presentations will be evaluated by art faculty.

*Prerequisite: Fulfillment of all other requirements for art majors.*

## **Biology**

*Other relevant courses may be found under Allied Health Sciences and Chemistry.*

### **BIO 1010 - Human Biology and Laboratory**

**4 cr** A one-semester course intended for non-science majors that provides an overview of human biology. All major organ systems will be covered, with an emphasis on their interactions, their importance in maintaining health, and the effects of disease and injury. May not be taken for biology credit by BA.BIO majors.

Lecture and lab

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: Social Work major or consent of instructor.*

*Lab fee \$50.*

*Fall, odd years*

### **BIO 1030 - Introduction to Nutrition**

**3 cr** An introduction to the science of nutrition and the scientific bases for the evaluation of diets. The role of nutrition in health, disease, and aging is emphasized.

*This course fulfills a Scientific and Mathematical Understanding Frame of Reference.*

### **BIO 1070 - Biological Illustration**

**3 cr** The course is designed to expose the student to three techniques: (1) pen and ink illustration done with technical illustrating pens; (2) carbon dust, a soft technique used to create half-tone illustrations with carbon pencil dust; and (3) colored pencil, using Prisma colored pencils on drafting film or Bristol board, producing beautiful and vibrant illustrations. This course is geared towards students with little or no drawing experience and helps them gain a new

sense of artistic accomplishment as well as a heightened ability to accurately observe nature.

*This course counts as an Aesthetic Understanding or Scientific and Mathematical Understanding Frame or Reference.*

*Lab Fee \$50*

*Spring*

## **BIO 1121 - Biology I**

**4 cr** A comprehensive introduction to biology focused on the molecular, cellular, and organismal level. The course provides an introduction to all areas of biology.

Lecture and lab.

*Prerequisite: One year of high school biology and chemistry.*

*Lab fee \$50*

*Fall*

## **BIO 1122 - Biology II**

**4 cr** A continuation of BIO 1121 Biology I, with particular emphasis on organisms, ecosystems, and evolution.

Lecture and lab.

*Prerequisite: Completion of BIO 1121 and CHE 1051 or CHE 1041 with grades of "C" or better.*

*Lab fee \$50.*

*Spring*

## **BIO 1160 - Flora of Vermont**

**3-4 cr** An inquiry-based field course devoted to the study of local natural history. We will explore the biology and taxonomy of plants, as well as investigate Vermont's ecological communities. Field trips to off-campus locations and hikes on rugged terrain are required.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Materials fee \$50.*

*Periodically*

## **BIO 1170 - Exploring Habitats through Art and Ecology**

**4 cr** This course combines art and ecology in the exploration of a unique habitat by traveling and spending a week immersed in the study of plants, animals, and culture of a selected region. The habitat selected may change depending on the offering but may include coral reefs, rainforests, or deserts. Students become naturalists and explore the species and interactions within various ecosystems. By sketching and painting their observations, students develop a sense of the scientific complexities that create these beautiful ecosystems and express the marvels of nature through journals, artwork, and research projects. Students also foster their ability to observe, inquire, and learn in these natural surroundings.

*Fee variable, approximately \$1,700.*

*Periodically*

## **BIO 1270 - Horticulture of Medicinal Plants**

**3 cr** Introduction to basic gardening techniques, plant growth and propagation, plant identification, and greenhouse management. Emphasis will be on growing medicinal plants and vegetables with significant health benefits. Work will be done primarily in the greenhouse, medicinal plant gardens and lab. Research is required on individual projects. Course content and projects will vary with season.

Lecture, Lab and Field Work.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab Fee \$50.  
Periodically*

## **BIO 1310 - Explorations in Biology**

**1 cr** These are lecture, lab or seminar courses on selected, introductory-level topics in the biological sciences, especially those of interest to non-science majors. The topic for each course will be announced prior to the semester of offering, and the course may be taken more than once for credit. No more than two credits of BIO 1310 may be used to satisfy the minimum biology requirements for BA.BIO and BA.ENV majors.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

## **BIO 1320 - Tropical Diversity**

**4 cr** The tropics worldwide contain over two-thirds of the earth's organisms, but these ecosystems are some of the most imperiled on the planet. In this course students investigate the interdependence of all living things and the complexity of ecological patterns in tropical regions. In addition to class work, we explore the ecology, evolution, and natural history of a tropical location during a weeklong field trip. We examine how local conservation efforts affect the long-term sustainability of these regions and discover the interconnectedness of tropical and temperate ecosystems.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Fee variable, approximately \$1,700.*

*Periodically*

## **BIO 2010 - Cell and Molecular Biology**

**4 cr** This course provides science majors with the fundamentals of cell and molecular biology. Students study the basics of molecular biology, the flow of genetic information through the cell, its structure, function, metabolism, and regulation. Course content includes recent advances in genomics and case studies of research in these rapidly expanding fields. This course is intended for science majors and minors only and will not satisfy the Scientific and Mathematical Understanding frame of reference.

Lecture and Lab

*Prerequisite: Completion of BIO 1121 and CHE 1041 or CHE 1051 with a "C" or better.*

*Lab fee \$50.*

*Spring*

## **BIO 2011 - Human Anatomy and Physiology I**

**4 cr** An investigation of the structure and function of the human body in health and disease. Topics include: the cell, cellular metabolism, tissues, integument, skeletal system, articulations, and muscular and nervous systems.

Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: Nursing, Physical Education, Natural Science, Psychology or Social Work major or consent of instructor.*

*Previous experience in biology and chemistry (high school or college) is highly recommended.*

*Lab fee \$50.*

*Fall*

## **BIO 2012 - Human Anatomy and Physiology II**

**4 cr** A continuation of BIO 2011. Topics include the endocrine, digestive, respiratory, cardiovascular, lymphatic, urinary and reproductive systems.

Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: BIO 2011 or consent of instructor.*

*Lab fee \$50.*

*Spring*

## **BIO 2035 - Animal Diversity**

**4 cr** In this course students will investigate the form, function, and ecology of animals from an evolutionary perspective. Fundamental life processes will be considered at the cellular, organismal, population, and ecosystem levels that connect with issues relating to biodiversity and conservation biology.

Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab fee \$50.*

*Spring, odd years*

## **BIO 2125 - Fundamentals of Microbiology**

**4 cr** A study of the cellular structure and function of microorganisms, principally bacteria. The physiology, genetics, and interactions of bacteria with higher forms of life and the environment will be covered. The required laboratory will provide students with an understanding and practical knowledge of aseptic techniques and other common microbiology methods.

*Prerequisite: BIO 1121 and BIO 1122, or BIO 2011 and BIO 2012.*

*Lab fee \$50*

*Every Semester*

## **BIO 2140 - Botany**

**3 cr** An introduction to the study of plant biology including the structure and function of cells and tissues, photosynthesis, and a survey of the plant kingdom with special emphasis on the higher plants.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Periodically*

## **BIO 2510 - Biology Laboratory Teaching Assistant**

**1 cr** The student will assist the laboratory instructor with lab preparation and clean-up, will assist students in the laboratory, and may be asked to maintain a journal or complete some other form of reflective writing. May be taken more than once for credit.

*Prerequisite: Student must have passed the course for which they will be a TA with a grade point of "B" or better and instructor's recommendation.*

## **BIO 2810 - Internship in Biology**

**1-12 cr** *Signed contract required at time of registration.*

## **BIO 3013 - Biogeochemistry**

**4 cr** This unique but very relevant course will focus on the study of chemical, physical, geological and biological processes that make up the natural environment. Small-scale processes are addressed that are important in the cycling of elements in our global system. Students will learn and understand the specific interactions of chemicals with living organisms which directly impact the global ecosystem. Discussions will also focus on how climate change affects these processes.

*Prerequisite: BIO 1121, BIO 2010, and CHE 1042 or CHE 1052 with grades of "C" or better.  
Fall, even years.*

### **BIO 3030 - Ecology of Water**

**3 cr** In this course we will investigate the ecology of the earth's most perfect liquid - water. The impact of large dams, ground water pumping, hydro-fracking, irrigation, and water diversions on the environment, biodiversity, and humanity will be investigated.

*A minimum of junior standing.*

*Prerequisite: BIO 1121 and BIO 1122 or permission of instructor.*

*Spring, odd years*

### **BIO 3060 - Ecology**

**4 cr** A study of the interrelationships between plants, animals, microorganisms and their abiotic environment. Problems in experimental design and ecological analysis will be explored. Some Saturday field trips are planned. Field trips to primitive areas are required.

Lecture and lab.

*Prerequisite: BIO 1121, BIO 1122, and CHE 1041 or CHE 1051 with grades of "C" or higher.*

*Lab fee \$50.*

*Fall*

### **BIO 3065 - Plant Ecology**

**4 cr** This course covers the major concepts in plant community, population, physiological and evolutionary ecology through lecture, discussion and active field and laboratory activities. One or more field trips are planned.

*Prerequisite: BIO 1121, BIO 1122, and CHE 1041 or CHE 1051 with grades of C or higher.*

*Lab fee \$50.*

*Fall, even years*

### **BIO 3070 - Genetics**

**4 cr** A survey of the major fields of genetics with a focus on modern molecular genetics and genetic technologies. A weekly discussion and exploration period examines problem-solving strategies and hand-on applications of modern genetic technologies.

*Prerequisite: BIO 2010 (may be taken concurrently) or BIO 2125, and CHE 1041 or CHE 1051.*

*Spring*

### **BIO 3090 - Virology**

**3 cr** Students successfully completing this course will understand the history of virology and the techniques used to study viruses. In addition, students will gain an understanding of the biology and lifestyles of different families of viruses and the diseases they cause. This course also includes emerging viruses and examines the potential global impact of viral infection.

*Prerequisite: "C" or better in BIO 2010, and CHE 1041 or CHE 1051 or consent of instructor.*

*Spring, odd years.*

### **BIO 3151 - Physiology of Exercise**

**4 cr** (Cross listed with AHS 3150.)

An examination of the acute and chronic physiological responses to exercise. Muscle, renal, endocrine and



environmental physiology, energy metabolism, and cardiovascular function in response to exercise training will be emphasized and applied to laboratory activities.

*Prerequisite: BIO 2011 and BIO 2012.*

*Fee \$50.*

*Every semester*

### **BIO 3160 - Animal Behavior**

**4 cr** This course examines the behavior of animals as they interact with each other and the environment. Topics include anti-predator behavior, foraging behavior, territoriality, social interactions, communication, and migration. The goal of the course is to learn to think critically about animal behavior by understanding behavior on both the proximate (genetics, development and response to external stimuli) and ultimate (evolutionary) levels. In the laboratory, groups of students will design, carry out, and report on an independent research project.

*Prerequisite: BIO 1121 and BIO 1122 with grades of "C" or better.*

*Fee \$50*

*Spring*

### **BIO 3210 - Developmental Biology**

**4 cr** This course is an examination of the patterns of animal development, including the production of sex cells, fertilization, and the growth and maturation of the embryo. The relationship between development and the evolution of species will be considered. Students will explore embryological development in a variety of animals, including normal and abnormal human development.

Lecture and lab.

*Prerequisite: BIO 1121 and BIO 1122, or BIO 2011 and BIO 2012 (BIO 2012 may be taken concurrently).*

*Lab fee \$50.*

*Spring, even years*

### **BIO 3240 - Advanced Human Physiology**

**3 cr** This course will examine selected aspects of human physiology in health and disease, including the activity of nerves and muscles, circulation, respiration, metabolism, and water and electrolyte balance. Intended for students who have completed the Human Anatomy and Physiology sequence and wish to explore these topics in more detail.

*Prerequisite: BIO 2011, BIO 2012, and previous or concurrent enrollment in CHE 1041, or CHE 1051.*

*Fall, even years*

### **BIO 3350 - Natural History of the Mojave Desert**

**4 cr** Deserts contain diverse, fascinating, and unique life forms. The open desert landscapes result in outstanding exposure allowing for the study of ancient and modern geological processes and features including volcanoes, sand dunes, and dry lakes. Natural History of the Mojave explores biological and geological aspects of the Mojave desert in California. Topics include the biogeography of plant species, plant and animal adaptations to desert climates and habitats, and the geological forces that shape and maintain those habitats. The course includes a field trip to primitive areas of the Mojave Desert where hiking on rugged terrain is required. The field trip occurs in the week following commencement and the laboratory fee covers all travel, food, and lodging costs.

*Prerequisite: Eight credits of BIO or GEY with grades of "C" or better and permission of instructor.*

*Dependent on current travel costs, expected to be between \$1000 and \$1500.*

*Spring, odd years*

### **BIO 3810 - Internship In Biology**

**1-12 cr** Signed contract required at time of registration.

### **BIO 4030 - Evolution**

**4 cr** This course is a survey of evolutionary processes with an emphasis on natural selection. The class provides a background that allows students to understand the origin and maintenance of biodiversity and to be able to apply abstract evolutionary concepts to a wide range of organisms. This course will cover current theory in evolution as well as the history of the evolutionary concept and its impacts on society. The discussion period focuses on interesting and important readings in evolutionary biology.

*Prerequisite: 'C' or better in BIO 1121, BIO 1122, BIO 3070 and BIO 3060 or BIO 3065.*

*Fall*

### **BIO 4035 - Advanced Molecular Biology**

**4 cr** This course provides fundamental molecular biology and genetic concepts as applied to ecological and biomedical applications. Students will participate in lengthy research projects involving modern molecular biology, genetic and genomic techniques.

Lecture and lab.

*Prerequisite: Completion of BIO 2010, BIO 2125, BIO 3070, and CHE 1042 or CHE 1052 with grades of C or higher.*

*Lab fee \$50.*

*Fall, odd years*

### **BIO 4150 - Vertebrate Biology**

**4 cr** An investigation of the biology of the fishes, amphibians, reptiles, birds, and mammals. This course will emphasize the anatomy and physiology of living vertebrates - including humans – but will also consider the evolution, development, life history, and ecology of these animals.

Lecture and lab.

*Prerequisite: BIO 1141 , BIO 2010 and CHE 1041 or CHE 1051; BIO 2035 recommended.*

*Lab fee \$40.*

*Periodically*

### **BIO 4170 - Sexual Selection**

**3 cr** Why are male cardinals bright red and females drab? Why do female preying mantises occasionally eat their mates? Male seahorses get pregnant!?! What is the biological basis for the morphological and behavioral differences between the sexes in organisms ranging from spiders to snails to orchids to humans? Sexual selection was first proposed by Charles Darwin as a corollary to natural selection and it has become one of the most active areas of research in biology. This course explores the theory of sexual selection as well as its effects in nature.

*Prerequisite: 'C' or better in BIO 1121 and BIO 1122 .*

*Periodically*

### **BIO 4250 - Ecotoxicology**

**3 cr** An investigation of the effects of pollutants in ecosystems. Student will explore how contaminants (e.g., pesticides, industrial discharges, toxic wastes, etc.) play a critical role in biotic and abiotic relationships and, ultimately, biodiversity. Students will confront toxicological problems by reviewing case studies and current research, as well as by examining the social, political, and ecological aspects of each issue.

*A minimum of junior standing.*

*Prerequisite: BIO 3060 or BIO 3065 and CHE 1042 or CHE 1052.*  
*Spring, even years*

### **BIO 4260 - Field Techniques and Current Topics in Wildlife Biology**

**3 cr** This course is targeted for undergraduate students majoring in wildlife biology, zoology, forestry, or other natural resource programs in the Northeastern U.S., especially those from programs lacking intense field-based courses, but graduate students are also welcome. The course is intended to provide students with practical, hands-on training in the tools and techniques of field biology and allow them to apply those skills in a variety of exercises. Students will summarize data from small group projects and present results to the large group and instructors. Practicing biologists from across the region will be engaged as guest instructors for certain workshops and will be invited to lead discussion sessions on current wildlife management issues and lead field trips to demonstrate wildlife and habitat management practices on the ground.

*Prerequisite: BIO 1141 and BIO 3060, or permission of instructor.*  
*Approximately \$850*  
*Summer*

### **BIO 4360 - Immunology**

**3 cr** This course will explore the purpose and basis of the human immune system. We will investigate the function and nature of immune responses and gain an understanding of the mechanisms of protection against specific pathogens.

*Prerequisite: BIO 2010, BIO 2125 and CHE 1041 or CHE 1051 with grades of C or higher.*  
*Spring, even years*

### **BIO 4610 - Scientific Communication Capstone I**

**2 cr** Course content for this course will include discussion of how to perform a thorough scientific literature search, effective methods for writing the introduction, methods, results and conclusion sections of a manuscript and how to create an effective poster or oral presentation. Experimental design and proper statistical analysis will also be reviewed. At the end of the course, a first draft of the introduction, methods and reference sections of the capstone research paper will be complete and students will give a practice presentation of their project as a poster or oral presentation.

*Junior Biology or Environmental Science majors.*  
*Spring*

### **BIO 4620 - Scientific Communication Capstone II**

**2 cr** In this seminar course, students will participate in peer-review activities and make final revisions and preparations for their capstone project. The course will culminate in a final written scientific paper reporting the results of independent research and a poster and/or oral presentation at the Natural Sciences department Research Symposium.

*Prerequisite: BIO 4610*  
*Spring*

### **BIO 4710 - Special Topics in Biology**

**1-2 cr** These are lecture or seminar courses on selected, advanced topics in various areas of biology. The topic for each course will be announced prior to the semester of offering, and the course may be taken more than once for credit.

*Prerequisite: Will vary with topic.*  
*Periodically*

### **BIO 4810 - Internship in Biology**

**1-12 cr** Signed contract required at time of registration.

## **BIO 4930 - Research Project**

**1-6 cr** The student must initiate an application with a written proposal to the instructor with whom the student wishes to work. The number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned. Signed contract required at time of registration.

*Prerequisite: At least 16 prior credits in BIO, CHE, GEY, or PHY.*

## **Business Administration**

*Other relevant courses may be found under Accounting or Computer Information Systems*

### **BUS 1270 - Principles of Computer-Based Information Systems**

**3 cr** An introduction to the devices and techniques used in the processing of data. This course includes hands-on use of word processing and spreadsheet programs and the internet. **This course fulfills the Gen Ed computing requirement.**

*Materials charge \$20.*

*Every semester*

### **BUS 2020 - Principles of Management**

**3 cr** This course is an introduction to the philosophy, principles, and techniques of management. Students will examine classical, modern, and emerging concepts as they relate to today's manager and the functional processes of planning, organizing, directing and controlling resources. Learning experiences may include case studies, team experiences and simulations.

*Prerequisite: BUS 1270.*

*Every semester*

### **BUS 2030 - Case Studies in Business Administration**

**3 cr** A continuation of core business courses (ACC 2101, BUS 2020, and BUS 2230) with further development of principles. The course objective is to apply accounting, management, and marketing principles to case studies with the student assuming the role of a manager to solve problems or challenges. Particular emphasis is placed upon writing cases analyses.

*Restrictions: Must be taken prior to BUS 4080.*

*Prerequisite: ACC 2101, BUS 2020, BUS 2230*

*Every semester*

### **BUS 2035 - Content Marketing and Professional Networking**

**3 cr**

Social Media is changing the way organizations interact with consumers, business partners, and their supply chain. The Content Marketing approach includes marketing strategies, context of the customer decision process, and development of a professional network. Content transfers the organization's values, culture, ethics, differentiation, and positioning to the target market through written word, pictures, videos, podcasts, and infographics.

*This course counts towards the Social & Behavioral Frame of Reference.  
Periodically*

### **BUS 2130 - Insurance and Risk Management**

**3 cr** General coverage of various types of insurance including the topics: life, accident and health, automobile, fire, residence, and personal liability. Also including the concept of risk and the tools and techniques used by a risk manager.

*Periodically*

### **BUS 2140 - Personal Finance**

**3 cr** A study of the tools used in personal financial planning. The student is introduced to the process used by professional planners and shown how this can be helpful in planning their own financial futures.

*Periodically*

### **BUS 2230 - Principles of Marketing**

**3 cr** This course introduces the role of marketing as it relates to manufacturing, wholesale, retail, and service businesses. Topics include product development, pricing decisions, promotional consideration, and distribution options of both goods and services. Students will also examine the emerging role of electronic marketing, and its impact on today's businesses.

*Prerequisite: BUS 1270.*

*Every semester*

### **BUS 2320 - Creative Selling and Sales Management**

**3 cr** A study of the personal selling process and an examination of sales managers and sales organization; recruiting, selecting, training, compensating, stimulating, controlling, evaluating salespersons; planning sales quotas and territories.

*Prerequisite: BUS 2230.*

*Periodically*

### **BUS 2370 - Business Communications**

**3 cr** The student practices the writing skills required for a successful career in business. Special attention is given to writing letters, memoranda, reports, and resumes. This course provides fundamental skills necessary for the student's successful completion of future business courses.

Restrictions: Business Administration majors and minors, Computer Information Systems majors, and Writing minors (English) only

*Prerequisite: ENG 1061*

### **BUS 2460 - Worksheets as Analysis Tools**

**3 cr** This course will focus on using the power of spreadsheets to assist in the analysis of cases in various areas of business. Excel's data management, menu-building, and macro capabilities will be explored. Good template design will be emphasized. The class will then build templates to analyze problems in areas of finance, accounting, marketing, and management. Therefore, it is suggested that students have some background in at least two of these areas.

*Prerequisite: BUS 1270.*

*Materials charge \$20.*

*Periodically*

## **BUS 2810 - Internship in Business**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration. Not open to first-year students.

*Signed contract required at time of registration.*

## **BUS 2910 - Independent Study**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

## **BUS 3060 - Consumer Behavior**

**3 cr** This course examined the behavior of the consumer in the marketplace. Topics include individual and group buying behavior, motivation, personality, attitudes, lifestyles, and their effects on purchasing behavior.

*Prerequisite: BUS 2230.*

*Fall*

## **BUS 3131 - Business Law I**

**3 cr** An introductory course to provide a knowledge and awareness of the scope and terminology of the American legal system as it pertains to business organizations. Topics emphasized may include criminal law, tort law, forms of doing business, law of contracts, sales, real and personal property law, negotiable instruments, Uniform Commercial Code, and agency relationships.

*Every semester*

## **BUS 3132 - Business Law II**

**3 cr** A continuation of Business Law I. Topics relating to business organizations not covered in Business Law I will be discussed.

*Prerequisite: BUS 3131.*

*Periodically*

## **BUS 3140 - Entrepreneurship and Small Business Management**

**3 cr** Students study the essentials of starting and managing a small business, including but not limited to: raising capital, location analysis, preparation of financial projections, alternate legal structures, attracting and maintaining customers and employees, and complying with laws and regulations. The course culminates with the preparation and presentation of a comprehensive business plan.

*Prerequisite: ACC 2101, BUS 2020, BUS 2230.*

*Periodically*

## **BUS 3170 - Retail Management**

**3 cr** This course provides the basis for understanding the exciting world of retail management. Topics include retail strategy, store location, buying merchandise, assortment planning, inventory management, retail selling, customer service and store layout. Emphasis is placed on the application of theory to real world management problems.

*Prerequisite: Completion of, or concurrent enrollment in, BUS 3230.  
Periodically*

### **BUS 3210 - Advertising**

**3 cr** A comprehensive look at the promotional process including media analysis and selection, dealing with the creative functions and production processes, measuring promotional effectiveness, and developing a comprehensive advertising strategy. Central to the course is the development of an advertising plan and campaign.

*Prerequisite: BUS 2230.*

*Spring*

### **BUS 3230 - Financial Management**

**3 cr** This course covers the principles of how business enterprises refinance; general methods and basic tools of financial management and control, utilization, disposition of funds.

*Prerequisite: ACC 2101*

*Every semester*

### **BUS 3240 - International Business**

**3 cr** The course perspective is that of the manager whose business is global and now must work with institutions, trade and exchange policies that reflect social systems of nation-states. The course will introduce the most important activities in international business.

*Prerequisite: ECO 2040, ECO 2050.*

*Periodically*

### **BUS 3245 - Global Marketing**

**3 cr** This course will introduce the students to the opportunities and barriers that come into play for firms that develop global marketing strategies. Students will read and discuss how firms of all sizes may adapt their marketing practices to account for global consumer preferences, trade practices, and government policies in a post 9/11 world of terrorism worries, and vague and shifting alliances. We will learn about the various cultures of the world, while we explore how they impact business and life in general. Many actual cases of successful, and unsuccessful, global marketing efforts will be considered.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: BUS 2230*

*Periodically*

### **BUS 3250 - Organizational Development and Behavior**

**3 cr** Field and organization of personnel function; selecting and training employees; wages and wage administration; problems of morale; human relations in supervision.

*Prerequisite: BUS 2020 or consent of instructor.*

*Fall*

### **BUS 3260 - Investments and Portfolio Management**

**3 cr** A study of investments in stocks, bonds, governments, warrants, options, futures and collectibles. An objective of the course is to provide hands-on investing experience through student portfolio management.

*Prerequisite: ACC 2101 & BUS 3230.*

*Periodically*

## **BUS 3270 - Data-Driven Marketing**

**3 cr** Students will learn the latest analytical techniques to help maximize ROMI (Return on Marketing Investment). Data-Driven Marketing provides comprehensive coverage of what works and what makes the difference in this important, yet misunderstood area. Students will develop a systematic framework for strategic measurement of key marketing metrics such as ROMI and Customer Lifetime Value. Topics include: introduction to DDM and marketing metrics, non-financial metrics for marketing campaigns, financial return on marketing investment (ROMI), internet marketing metrics and optimization, data mining and segmentation, and data-driven strategy.

*Prerequisite: BUS 2230*

*Fall, odd years*

## **BUS 3272 - Social Media Marketing**

**3 cr** Facebook®, Twitter, LinkedIn®, and YouTube™ have changed the way consumers communicate today and businesses must be a part of this social discussion or risk losing significant marketing opportunities. This course lays the conceptual foundation and practical approach to developing successful social media marketing plans while achieving desired marketing goals. The most productive marketing tactics for each type of major social media platform are examined in depth. A significant portion of the course will be devoted to hands-on development and discovery of social media tools. Students must be willing to work as a social team collaborating on the cloud, writing a blog, creating a LinkedIn persona, tweeting, developing YouTube videos, and sharing information on the Internet.

*Prerequisite: BUS 2230 or COM 2150*

*Spring*

## **BUS 3280 - Human Resources Management and Applications**

**3 cr** This course focuses on the growing importance of human resource management for supervisors and managers employed in a variety of fields. The course includes an introduction to the basics of human resource management, such as interviewing, legal issues, compensation, discipline, and diversity. Contemporary issues and topics in the field are used to give students the skills and techniques necessary to manage in today's complex business environment. Finally, a case study approach enables students to understand fully these complexities using real-world cases within the field of Human Resource Management.

*Prerequisite: BUS 2020*

*Spring*

## **BUS 3290 - Sports Marketing**

**3 cr** The course examines the marketing of sports activities, organizations, and paraphernalia. Topics covered include careers in sports marketing, product concepts, promotion, broadcast rights, and sponsorship programs. This course is recommended for anyone interested in pursuing a career in marketing, sports information or sports administration.

*Prerequisite: BUS 2230.*

*Periodically*

## **BUS 3320 - Applied Principles of Finance**

**3 cr** Financial principles introduced in BUS 3320 are applied to business problems and situations. Use of decision-making as it applies to structuring the organization, working capital analysis, financial analysis, capital acquisition and other appropriate topics. Case method is used wherein student is the financial manager.

*Prerequisite: BUS 3230.*

*Periodically*

## **BUS 3380 - Hospitality Management**



**3 cr** This course introduces students to the exciting and diverse hospitality industry. While providing an understanding of the scope and complexity of this service industry, the course applies general principles of management and marketing—and career opportunities—within hotels, restaurants, clubs, beverage operations, theme venues, entertainment centers, and other travel and tourism businesses.

*Prerequisite: BUS 2020, BUS 2230.*

*Periodically*

### **BUS 3810 - Internship**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration. Open to Juniors only.

*Signed contract required at time of registration.*

### **BUS 3900 - Independent Study**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

### **BUS 3910 - Independent Foreign Study**

**Credits to be arranged.** Registration by permission of department chair only.

*Signed contract required at time of registration.*

### **BUS 4030 - Marketing Research**

**3 cr** An overview of the process of assembling information to make better marketing decisions. Topics include measurement principles, research designs, sampling techniques, data collection and analysis.

*Prerequisite: BUS 2230 and MAT 2022.*

*Fall*

### **BUS 4040 - Marketing Strategies**

**3 cr** Using case studies and problem analysis, this capstone course integrates marketing studies into a comprehensive strategic framework that examines the development and effects of marketing management decisions, within a rapidly changing business environment.

*Prerequisite: BUS 3210, BUS 4030.*

*Spring*

### **BUS 4080 - Business Strategy and Policy Development**

**3 cr** This course focuses on both the analysis of an organization's internal and external environments and on the development of appropriate corporate, business, and functional level strategies. The case study method is used extensively, with emphasis placed on policy formulation, strategic implementation, and control. Both for-profit and not-for-profit organizations are included.

*Prerequisite: Senior standing and approval of the department.*

*Every Semester*

## **BUS 4110 - Operations Management**

**3 cr** Introduction to concepts and fundamental understanding of systems management. Study of specific problems; decision-making processes dealing with planning and control in manufacturing and service firms.

*Prerequisite: MAT 2021, MAT 2022.*

*Fall*

## **BUS 4130 - Quantitative Business Decisions**

**3 cr** Mathematical business decision-making techniques and methods of problem analysis of decision made under uncertainty. Individuals participating in the 4-Plus1 MBA program with Clarkson University must take this course.

*Prerequisite: MAT 2021, MAT 2022.*

*Spring*

## **BUS 4210 - Management of the Information Systems Environment**

**3 cr** A senior level course that will emphasize the management process associated with a computer-based management information system environment. Study will be made on the staffing requirements, budgeting process, design and layout of processing facilities, environmental control, hardware and software specifications and selections, and management controls.

*Prerequisite: BUS 1270, CIS 4120.*

*Materials charge \$20.*

*Spring*

## **BUS 4220 - Networking**

**3 cr** This course will be an intensive hands-on network administration course using Windows Operating Systems, Novell Operating Systems and Linux.

*Prerequisite: at least 9 credits of CIS coursework.*

*Materials charge \$20,*

*Spring, odd years*

## **BUS 4530 - Technical Project Management**

**3 cr** Designed for the project manager who interacts with all levels of management while satisfying the customers' needs, this course covers planning, scheduling and controlling projects. Emphasis will be placed on issues like leadership, motivation, team-building, and conflict resolution. CPM and PERT will be covered in detail. Real case studies will be used to illustrate theories and concepts covered in the lectures.

*Prerequisite: BUS 2020.*

*Fall, even years*

## **BUS 4610 - Healthcare Policy, Finance and Regulation**

**3 cr** (Also listed as NUR 4610 )

This interdisciplinary course offered to nursing, business, and political science students, focuses on how healthcare, finance, and regulation policies and legislative processes influence nursing practice and the nature and functioning of the healthcare system in the United States. Students will examine the business principles that underlie how healthcare is organized and financed. The implications of healthcare policy on issues of access, equity, affordability, and social justice in healthcare delivery will be highlighted. Students have opportunities to participate in political processes to influence healthcare policy at the local, state, or national level.

*Business, Nursing and Political Science majors.  
Spring*

### **BUS 4810 - Internship in Business**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration. Open to seniors only.

*Signed contract required at time of registration.*

### **BUS 4820 - Practicum in Business**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

### **BUS 4910 - Independent Study**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

## **Chemistry**

*Other relevant courses may be found under Biology, Physics, Geology or Natural Science.*

### **CHE 1041 - General Chemistry I**

**4 cr** Fundamental principles of chemistry. Topics include modern atomic theory and structure of atoms, chemical bonds, stoichiometry, gas laws, thermochemistry and molecular geometry. To succeed in this course, an understanding of applied algebra is necessary.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: MAT 1020 or MAT 1221 or MAT 1320, or equivalent placement.*

*Fee \$50.*

*Fall*

### **CHE 1042 - General Chemistry II**

**4 cr** Continuation of CHE 1041. Topics include solution properties, kinetics, equilibrium, reaction mechanisms, thermodynamics, equilibrium, oxidation-reduction reactions and acid-base chemistry.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: Grade of "C" or better in CHE 1041 or CHE 1051*

*\$50 lab fee*

*Spring*

### **CHE 1051 - Chemistry I**

**4 cr** An in-depth study of the fundamental principles of chemistry. Topics include modern atomic theory and structure of atoms, solution chemistry, nature of chemical bond, stoichiometry, gas laws, thermochemistry and molecular geometry. This course is designed for biology, chemistry, geology, and environmental science majors, as well as motivated students in the health related fields. To succeed in this course, an understanding of applied algebra is mandatory.

*Biology, Chemistry, Environmental Science, and Geology majors only.*

*Prerequisite: MAT 1020 or MAT 1221 or MAT 1320 or equivalent placement.*

*Fee \$50*

*Fall*

## **CHE 1052 - Chemistry II**

**4 cr** This course is a continuation of CHE 1051. Topics of study include intermolecular forces, properties of solutions, the chemistry of solids, thermodynamics, chemical kinetics, equilibrium, metal chemistry, and electrochemistry. This course is designed for biology, chemistry, geology, and environmental science majors or other students that will pursue higher-level courses in chemistry.

*Biology, Chemistry, Environmental Science and Geology majors only.*

*Prerequisite: CHE 1051 or CHE 1041 with a grade of "C" or better.*

*Fee \$50*

*Spring*

## **CHE 1311 - Chemistry in the Classroom**

**4 cr** This course is designed for pre-service elementary educators. Topics will include states of matter, physical and chemical properties, atoms and molecules, the periodic table, chemical change, chemical equations, solutions, acids and bases, the gas laws, and equilibrium. The goal of the course is to provide needed content in an accessible format, with lots of hands-on applications.

*Fall, even years*

## **CHE 2111 - Organic Chemistry I**

**4 cr** An introduction to the chemistry of organic compounds. Emphasis is on organic functional groups and their chemical properties, nomenclature and molecular structure. The laboratory introduces students to basic organic laboratory techniques of synthesis, purification and characterization. Lecture (3 hrs.) and lab (4 hrs). Students are strongly recommended to take Organic Problem Solving I (CHE 2113) together with this course.

*Prerequisite: CHE 1042 or CHE 1052 with a grade of C or better.*

*Lab fee \$50.*

*Fall*

## **CHE 2112 - Organic Chemistry II**

**4 cr** A continuation of CHE 2111. Continued study of organic functional groups and their chemical properties and molecular structures. Emphasis is on reaction mechanisms, aromaticity and spectroscopic methods of analysis of organic molecules. Students are strongly recommended to take Organic Problem Solving II (CHE 2114) together with this course.

Lecture (3 hrs) and lab (4 hrs).

*Prerequisite: CHE 2111*

*Lab fee \$50.*

*Spring*

## **CHE 2113 - Organic Problem Solving I**

**1 cr** This course is designed to be taken in parallel with Organic Chemistry I. It introduces problem solving strategies for Organic Chemistry I.

Lecture (1 hr.).

*Prerequisite: CHE 1042 or CHE 1052 with a grade of C or better*

*Co-requisite: CHE 2111.*

*Fall*

## **CHE 2114 - Organic Problem Solving II**

**1 cr** This course is designed to be taken in parallel with Organic Chemistry II. It introduces problem solving strategies for Organic Chemistry II.

Lecture (1 hr)

*Prerequisite: CHE 1042 or CHE 1052 with a grade of C or better*

*Co-requisite: CHE 2112*

*Fall*

## **CHE 2510 - Chemistry Laboratory Teaching Assistant**

**1-2 cr** The student will assist the laboratory instructor with lab preparation and clean-up, will assist students in the laboratory, and may be asked to maintain a journal or complete some other form of reflective writing. The student may also assist the laboratory instructor in the management and review of scientific writing projects submitted by students. Specifically, this student will be responsible for first draft editorial remarks and revision, as well as advising students as to style, phraseology and content, prior to student submission of final drafts to the instructor.

*Prerequisite: Student must have passed the course for which they will be a TA with a grade of "B" or better and instructor's recommendation. The writing assistant must have passed CHE 1042L or CHE 1052L, and have excellent scientific writing performance and the instructor's recommendation.*

## **CHE 2810 - Internship in Chemistry**

**1-12 cr** *Signed contract required at time of registration.*

## **CHE 2910 - Independent Study**

**1-3 cr** The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. The number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned.

*Signed contract required at time of registration.*

*Prerequisite: At least 16 credits in BIO, CHE, GEY, or PHY.*

## **CHE 3011 - Biochemistry with Discussion**

**4 cr** This course provides an introduction to the major classes of biological molecules and their structure, function and metabolism in living systems. Students examine the structure of proteins, their function and their binding to other molecules. Enzymes and their kinetics and mechanisms are covered in detail. The design principles of central metabolic pathways are examined. This course provides the linkage between the inanimate world of chemistry and the living world of biology.

Lecture

*Prerequisite: CHE 2111 with a grade of "C" or better. CHE 2112 is strongly recommended.*

*Fall*

## **CHE 3013 - Biogeochemistry**

**4 cr** *BIO 3013*

This unique but very relevant course will focus on the study of chemical, physical, geological and biological processes that make up the natural environment. Small-scale processes are addressed that are important in the cycling of elements in our global system. Students will learn and understand the specific interactions of chemicals with living organisms which directly impact the global ecosystem. Discussions will also focus on how climate change affects these processes.

*Prerequisite: BIO 1141, BIO 2010, and CHE 1042 or CHE 1052*

*Lab fee \$40*

*Fall, even years.*

## **CHE 3016 - Enzyme Kinetics Laboratory**

**1 cr** In this course students will learn to characterize enzyme kinetics in the laboratory setting.

*Prerequisite: BIO 2010 and CHE 2111*

*Fee \$50*

*Spring, even years*

## **CHE 3020 - Analytical Chemistry**

**4 cr** A survey of analytical chemical techniques including traditional gravimetric and titrimetric methods as well as modern spectroscopic and chromatographic methods of chemical analysis

Lecture and lab.

*Prerequisite: CHE 1041 or CHE 1051 or consent of instructor.*

*Lab fee \$40.*

*Spring*

## **CHE 3030 - Aqueous Geochemistry**

**3 cr** This course is designed to show the application of chemical principles to the study of geology. Topics covered include aqueous geochemistry, activity-concentration relations, carbonate equilibria, pH-fO<sub>2</sub> diagrams, isotope systems, and the application of geochemistry to solving environmental problems.

*Prerequisite: CHE 1042 or CHE 1052, and GEY 1030.*

*Spring, even years*

## **CHE 3031 - Physical Chemistry I**

**4 cr** A study of the fundamental concepts and principles of thermodynamics, gas laws, and solutions. Topics include the laws of thermodynamics, prediction of the direction and extent of chemical reaction, equilibrium, phases of matter, solutions, and electrochemistry. Laboratory focuses on experiments that lead to the development of thermodynamics and important chemical properties.

*Prerequisite: CHE 1042 or CHE 1052, MAT 2532, and PHY 2210*

*Fee \$50*

*Fall, odd years*

## **CHE 3032 - Physical Chemistry II**

**4 cr** A study of the fundamental concepts and principles of thermodynamics and kinetics. Topics include the laws of thermodynamics, prediction of the direction and extent of chemical reactions, equilibrium, chemical kinetics, catalysis, reaction rate theory and photochemistry.

*Prerequisite: CHE 3031*

*Lab fee \$50*

*Spring*

### **CHE 3150 - Inorganic Chemistry**

**3 cr** A study of the fundamental concepts and principals of Inorganic Chemistry. Topics include structure and properties of solids, physical characterization techniques, materials chemistry, and catalysis.

*Prerequisite: CHE 1052 and PHY 2110*

*Spring, odd years*

### **CHE 3510 - Upper Level Chemistry Teaching Assistant**

**1 cr** The student will assist with lab preparation, supervision and clean-up, including assembly of sample apparatus for the students prior to the lab session. The student will maintain a laboratory notebook, including introduction, material safety and background to each lab and detailed answers to discussion questions. May be taken more than once for credit.

*Instructor permission required.*

### **CHE 3810 - Internship in Chemistry**

**1-12 cr** *Signed contract required at time of registration.*

### **CHE 4010 - Environmental Kinetics and Chemical Fate**

**3 cr** A study of steady and non-steady state kinetics in environmental chemistry, including photochemical transformations. Modeling of contaminant degradation with respect to advection, dispersion, microbial, and chemical degradation will also be examined.

*Prerequisite: CHE 2111*

*Fall, odd years*

### **CHE 4020 - Advanced Organic Chemistry**

**3 cr** This course enables students to develop a knowledge base of synthetic organic chemistry reactions. Subjects explored in detail include: the application of molecular orbital theory to pericyclic and photochemical reactions; special reactive intermediates including carbenes, carbanions, and free radicals, reaction dynamics, isotope effects, stereocontrolled reactions and organometallic chemistry.

*Prerequisite: CHE 2112*

*Fall, odd years*

### **CHE 4030 - Chemical Biology**

**3** Chemical biology covers the use of chemistry in modern biological applications; such as orthogonal translation systems for the synthesis of artificial proteins, chimeric proteins, in vitro protein synthesis, fluorescent labeling of molecules, genetic engineering of metabolic pathways, and chemical sequencing techniques. Students in this course will review assigned primary literature and design experimental approaches to solve assigned problems using the techniques learned in the course.

*Prerequisite: CHE 3011*

*Spring, odd years*

## **CHE 4710 - Special Topics in Chemistry**

**1-2 cr** These are lecture, seminar or lab courses on selected, advanced topics in chemistry. The topic for each course will be announced prior to the semester of offering. The course may be taken more than once for credit.

*Prerequisite: Will vary with topic.*

*Periodically*

## **CHE 4810 - Internship in Chemistry**

**1-12 cr** *Signed contract required at time of registration.*

## **CHE 4910 - Independent Study**

**1-3 cr** The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. The number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned.

*Signed contract required at time of registration.*

*Prerequisite: At least 16 credits in BIO, CHE, GEY, or PHY.*

## **CHE 4920 - Research in Chemistry**

**2-6 cr** The student must initiate an application with a written proposal to the instructor with whom the student wishes to work. The number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned. Signed contract required at the time of registration.

*Prerequisite: At least 16 prior credits in CHE, BIO, PHY, or GEY.*

*Every semester*

## **Chinese**

### **CHI 1011 - Mandarin Chinese I**

**3 cr** The course is a systematic introduction to the Mandarin Chinese language focused on development of aural comprehension, speaking, reading and writing skills. This course will also develop skills in Mandarin Chinese language to communicate across ethnic, cultural, ideological and national boundaries and to develop an understanding of Chinese interpersonal behavioral culture and related thought patterns.

### **CHI 1012 - Mandarin Chinese II**

**3 cr** This course continues Mandarin Chinese I and the development of aural comprehension, speaking, reading and writing skills. This course will continue to develop skills in Mandarin Chinese language to communicate across ethnic, cultural, ideological and national boundaries and to develop an understanding of Chinese interpersonal behavioral culture and related thought patterns.

## **Computer Information Systems**



*Other relevant courses may be found under Business Administration.*

### **CIS 2011 - Visual Basic Programming**

**3 cr** The course is an introduction to the Visual Basic programming language and the concepts involved in object oriented programming. The course will be a hands-on programming class that will expose students to the skills necessary to create and maintain visual programs.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Materials charge \$20.*

*Fall*

### **CIS 2031 - C/C++ Programming I**

**3 cr** This course introduces students to the concepts of programming with abstract data types and object-oriented programming. It uses C++ to cover classes, inheritance, and polymorphism. The course also builds on the prerequisites to provide students with more advanced exposure to software design, implementation, debugging, and documentation.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Materials charge \$20.*

*Fall*

### **CIS 2032 - C/C++ Programming II**

**3 cr** Topics to be covered include inheritance, object manipulation, windows programming, foundation classes, designing the visual interface and connecting to databases.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: CIS 2031*

*Materials charge \$20.*

*Spring, even years*

### **CIS 2271 - JAVA Programming**

**3 cr** Topics include control flow, user defined and Java API classes and methods, data types (simple and object), object oriented concepts, operators, program design, basic input and output and swing GUI components.

*Prerequisite: CIS 2031*

*Materials charge \$20.*

*Periodically*

### **CIS 2810 - Internship in Computer Information Systems**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration. Not open to first-year students.

### **CIS 3022 - Advanced Visual Basic**

**3 cr** The course is a continuation of CIS 2011 with an emphasis on advanced programming concepts to include arrays, functions, modules, file maintenance, security, graphics and databases.

*Prerequisite: CIS 2011.*

*Materials charge \$20.  
Spring, odd years*

### **CIS 3040 - Databases**

**3 cr** An in-depth study of the Theory of Data Base Technology. Topics include: Data Models, Data Independence, Network, Hierarchical and Relational Models. Students will be required to create, modify, and maintain a Relational Data Base.

*Prerequisite: BUS 1270 or Introductory Computer skills course.*

*Materials charge \$20.*

*Spring, even years*

### **CIS 3045 - Advanced Database Concepts**

**3 cr** The course will cover encoding/decoding, startup options, user level security, system-level security, replication, code based security options and other techniques to protect valuable data.

*Prerequisite: CIS 3040.*

*Fall, even years*

### **CIS 3130 - Desktop Publishing**

**3 cr** Aimed at the non-graphic artist, this course is an introduction to the creation of printed materials using desktop publishing techniques. Topics include use of paper, color, type, illustrations, photos, and the basic principles of good design to create printed materials. Also covered are print buying and printing cost factors. Students will achieve an introductory knowledge of a popular page layout software.

*Prerequisite: BUS 1270 or an introductory computer skills course.*

*Materials charge \$20.*

*Periodically*

### **CIS 3150 - Web Design I**

**3 cr** This first course in web design covers the principles of web page design, navigation, content creation, graphics, and creating sites that meet the needs of the organization. The course will introduce the use of page layout tools, templates, the basics of scripting languages, database integration, and image manipulation. Students will gain an understanding of good web design principles.

*Prerequisite: BUS 1270 and BUS 2230 (or concurrent enrollment).*

*Materials charge \$20.*

*Periodically*

### **CIS 3160 - Fundamentals of Web Graphics**

**3 cr** The course covers the creation, modification, and conversion of images into web-usable forms. It will focus on the use of Photoshop software to create, prepare, and edit images. Also covered will be scanning, animations, web effects, and optimization techniques to improve web appearance and performance. If a student is taking or has completed ART 3130, Web Graphics, they should not register for this course, as the material is similar.

*Prerequisite: CIS 3150 or permission of instructor.*

*Materials charge \$20.*

*Periodically*

### **CIS 3272 - Advanced JAVA**

**3 cr** Topics include memory management, advanced object oriented concepts, data structures advanced swing user interface features, error handling, networking, advanced input and output.

*Prerequisite: CIS 2271.*

*Materials charge \$20.*

*Periodically*

## **CIS 3410 - Foundations of Information Systems**

**3 cr** The focus of this course is on the key components of information systems—people, software, hardware, data, and communications technologies. Students study how these components are integrated and managed to create competitive advantage.

*Prerequisite: BUS 1270*

*Fall, odd years*

## **CIS 3810 - Internship in Computer Information Systems**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration. Open to juniors only.

## **CIS 3910 - Independent Study**

**1-3 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor and the coordinator of the Computer Information Systems program to initiate the independent study process. The Business Administration independent study contract will be started at the initial meeting and completed through subsequent meetings with the advisor. A signed independent study contract is required for registration.

*Prerequisite: Consent of Department Chair.*

## **CIS 4010 - Web Technology**

**3 cr** This course is an introduction to web technology. Students will be exposed to the technical aspects of Internet-based commerce. Topics will include design and promotion of a web site, security, payment systems, and creation of a web site.

*Prerequisite: permission of instructor.*

*Materials charge \$20.*

*Periodically*

## **CIS 4045 - Information Security Management**

**3 cr** This course addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational information security management.

*Prerequisite: at least 9 credits of CIS coursework.*

*Fall, odd years*

## **CIS 4110 - HTML, DHTML, and JAVA Programming**

**3 cr** This course will focus on HTML, DHTML, and JAVA scripting as a tool for web page creation. The students enrolled in the course will create advanced web pages using these tools and others as a demonstration of their grasp of the programming component of the concentration.

*Prerequisite: CIS 2011.*

*Materials charge \$20.  
Periodically*

### **CIS 4120 - Systems Analysis and Design**

**3 cr** The course addresses the methodology used in gathering data, analyzing data, and determining user requirements for information processing using advanced systems analysis techniques and the associated techniques used in designing solutions that then can be programmed as application software for use on computer-based systems.

*Prerequisite: Minimum of 9 credits of CIS coursework. Junior or senior standing and permission of the instructor.*

*Materials charge \$20.*

*Spring, even years*

### **CIS 4810 - Internship in Computer Information Systems**

**1-12 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor to initiate the internship process. The Business Administration internship contract will be started at the initial meeting and completed through subsequent meetings with the advisor. In addition, students must register for the internship prior to starting the internship; and a signed internship contract is required for registration. Open to seniors only.

### **CIS 4910 - Independent Study**

**1-3 cr** Students must meet with their Accounting, Business, or Computer Information Systems advisor and the coordinator of the Computer Information Systems program to initiate the independent study process. The Business Administration independent study contract will be started at the initial meeting and completed through subsequent meetings with the advisor. A signed independent study contract is required for registration.

*Prerequisite: Consent of the Department Chair.*

## **Communication**

### **COM 1040 - Media Writing**

**3 cr** This is a basic course covering writing in a variety of media including print and broadcast journalism, advertising, instructional television, public relations and broadcast continuity.

*Prerequisite: ENG 1061.*

*Every Semester*

### **COM 1050 - Introduction to Popular Culture**

**3 cr** This inter-disciplinary theory course explores the ways in which media and the entertainment industries have made consumerism the focal point of American culture and society. Focusing primarily on the marketing and consumption of clothing, food, toys and religion, we will examine how the commercialization and privatization of popular culture have forced us to revise how we think of ourselves as individuals and as a nation.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Fall*

### **COM 1150 - Introduction to Cinema Studies**

**3 cr**

A global introduction to the study of film as art form, entertainment commodity, political tool, cultural product, and technology. This course will equip students with the tools to identify, analyze, and write about the artistic and technical decisions made during the creation of a film.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*fee \$15*

*Every semester*

## **COM 1211 - Introduction to Video and Filmmaking**

**3 cr** This is a project-oriented course in which students develop their abilities to communicate in a wide range of video applications. It offers hands-on instruction, practice and guidance in writing, producing, directing, camerawork, audio recording, single and multi-camera production, and editing. Depending on their interests, students produce, direct and/or appear on camera in a number of in-and out-of class productions.

*Studio fee \$20.*

*Every Semester*

## **COM 1220 - Introduction to Communication**

**3 cr** Mass Media has become the primary force in shaping our historical, political and social reality. The course introduces students to the study of the mass communication process and media literacy practices. Students will explore theoretical approaches to mass communication in the contexts and concerns of society, government and commerce. Historical development, functions and technological developments and subsequent cultural, political and economic implications will be examined.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Every Semester*

## **COM 1230 - Introduction to Computing in the Arts and Humanities**

**3 cr**

(also listed as ART 1230)

This course will provide a systematic introduction to the use of computing in the arts and humanities including file management, word processing, electronic mail, the use of the world wide web for research and publication, and basic image editing, web design and page layout. **This course fulfills the Gen Ed computing requirement.** Studio fee may be required.

*Studio fee \$15.*

*Every Semester*

## **COM 1410 - Digital Photography I**

**3 cr** (Also listed as ART 1410 )

The student will explore the mechanical and electronic aspects of digital photography, as well as developing some of the basic tools of image manipulation. Instruction will include the aesthetics of digital images.

*Prerequisite: Digital camera is required.*

*A studio fee may be required.*

## **COM 2120 - Script Workshop I**

**3 cr** This course is designed to allow students to explore a wide range of script styles and formats, including the stage play, film script, radio play, and television script. The focus will be on understanding the process of script development through reading and analyzing published scripts, and by writing original short scripts.

*Fall*

### **COM 2130 - Experimental Cinema and Video**

**3 cr** (also listed as ART 2130)

Students explore video as an artistic medium through group projects, production and critique of individual projects, and viewing and analysis of the work of current video artists. Emphasis is on developing methods to present artistic concepts coherently. Students are encouraged to experiment with modes of narrative, camera and editing techniques and forms of presentation.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Studio Fee \$20.*

*Periodically*

### **COM 2140 - Race, Gender and Sexuality in Media**

**3 cr** Media are among our primary sources of images of people, places and things we do not encounter ourselves in our everyday lives. This course examines the images of women and racial and sexual minorities who have been on the fringes of policy development and yet at the center of narratives created by mainstream media. It takes a detailed look at the symbolic and social power of commercial media's role in constructing social and cultural differences around age, gender, race, class and sexuality.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: COM 1220 or consent of instructor.*

*Spring*

### **COM 2150 - Public Relations**

**3 cr** This course presents a functionalist examination of past and present public relations practices and associated controversies. Students will be required to analyze and produce public relations programs using a variety of media skills. This course will frequently include a service-learning component. Recommended for students with sophomore or junior standing.

*Prerequisite: ENG 1061.*

*Every semester*

### **COM 2160 - International Communication**

**3 cr** This course will provide a critical framework for understanding the social, political and ethical dimensions of the flow of information between nations. Central to the study will be an analysis of inter-governmental actors such as the UNESCO and the WTO in governing transborder data flows. Emphasis will be placed on examining language as an ideological tool, cultural imperialism, news imbalance, modernization and dependency, and globalization.

*This course fulfills the World Views Frame of Reference.*

*Fall*

### **COM 2170 - Radio Programming and Production**

**3 cr** An introductory investigation of various problems and skills encountered in radio. Subjects include radio formats, programming decisions, broadcast regulation, announcing, "spot" production, remote broadcasts, and sound mixing. Students will work with the WIUV-FM facility. Music majors will work on semester projects involving microphone

placement, sound mixing, and multi-track recording techniques.

*Every Semester*

### **COM 2210 - Broadcast Performance**

**3 cr** Instruction, practice and critique of television and radio performance in a wide array of nonfiction genres such as news, talk, variety, documentary and commercial programming.

*Fall, odd years*

### **COM 2212 - Video Workshop II: News and Feature Production**

**3 cr** Students produce news and feature segments of a cablecast video magazine. Different students will emphasize different areas of interest including on-camera performance, producing, camerawork, graphics and editing.

*Prerequisite: COM 1211.*

*Studio fee \$20.*

*Every Semester*

### **COM 2220 - Web Content and Site Development**

**3 cr** In this course students will first learn the fundamentals of using the world wide web as a consumer, and then progress to the development of their own pages using a variety of hardware and software tools. We will also cover site development including file formats, service providers and connection speeds.

*Prerequisite: BUS 1270, ART 1230 or COM 1230 or consent of instructor.*

*Studio fee \$15.*

*Fall*

### **COM 2221 - Graphic Design I**

**3 cr** (also listed as ART 2221)

This course will introduce students to the basic principles, language, and practice of graphic design and teach them how to apply concepts through visual problem solving and communication. Students will also learn the process of design: research, ideation, iteration, implementation, and critique. A studio fee may be required.

*Prerequisite: ART 2510 / COM 2510 or consent of instructor.*

*Studio fee \$20.*

*Every Semester*

### **COM 2222 - Graphic Design II**

**3 cr** (also listed as ART 2222)

This course continues the exploration and application of graphic design, typographic principles, and type/image integration through the conceptualization, creation, and refinement of projects of increasing complexity. Emphasis will be placed on the development of strong concepts and production processes. A studio fee may be required.

*Prerequisite: COM 2221/ART 2221 or consent of instructor.*

*Studio fee: \$20.*

*Spring*

### **COM 2230 - News Gathering and Writing**

**3 cr** Students will learn to report and write both hard news and short feature stories, including one story stemming from a local government meeting. They will learn journalistic interviewing skills and use digital devices to assist storytelling across multiple platforms.

*Prerequisite: COM 1040 or consent of the instructor.*  
*Every semester*

### **COM 2240 - Video Magazine Workshop**

**3 cr** Intensive practice in news feature production emphasizing field production and editing. Limited enrollment.  
*Prerequisite: COM 2212.*  
*Studio fee \$20.*  
*Every semester*

### **COM 2260 - Media and Society**

**3 cr** This course examines media audiences. In looking at the interaction between media and society, it explores how media create an imagined community, how audiences use the media, and what impact media messages have on audiences. In addition to reading secondary research on media theories, students also gather and analyze primary data.  
*Prerequisite: COM 1220 or permission of instructor.*  
*Every semester*

### **COM 2270 - Newspaper Editing**

**3 cr** The student receives instruction in news evaluation, style rules, copy editing, headline writing, photo editing, and layout and design, with particular emphasis on front page makeup.  
*Prerequisite: COM 1040, COM 2230, or consent of instructor.*  
*Spring*

### **COM 2315 - Digital Photography II**

**3 cr** (Also listed as ART 2315 )  
Further exploration of aesthetics, composition, design and image modification using digital photography techniques. Students will study advanced techniques for both camera work and software applications designed for digital manipulation. Access to a digital camera is essential.  
*Prerequisite: COM 1410*  
*Studio fee may be required.*

### **COM 2330 - International Cinema**

**3 cr** An introductory survey of non-U.S. cinema, exploring prominent film movements and national cinemas from the 1940's through the present. Films screened in the course will range from popular genre cinema to art and experimental cinemas.  
Class meets for one four-hour period weekly.  
*This course fulfills the World Views Frame of Reference.*  
*Prerequisite: COM 1150 or consent of instructor.*  
*Screening fee \$15*  
*Fall, odd years*

### **COM 2510 - Graphic Arts Production**

**3 cr** (Also listed as ART 2510 )  
An introduction to graphic production using industry standard illustration, photo manipulation and compositing, Web authoring and page layout software. The goal of the class is to obtain basic competence in these applications. Topics covered include vector illustration, image acquisition, color theory, resolution image editing, color correction, IP



addresses, types of websites, page creation, linking, CSS, and layout design.

*Prerequisite: ART 1230 /COM 1230*

*A studio fee may be required.*

### **COM 2730 - Special Topics in Cinema Studies**

**3 cr** In-depth exploration of a topic in cinema studies, such as genre, director, national cinema, gender and cinema, race and cinema, or topics in film theory. Exact course descriptions will be provided prior to registration for the spring semester.

Class meets for one 4-hour session per week.

*Prerequisite: COM 2050 or consent of instructor.*

*Screening fee \$15*

*Spring*

### **COM 2820 - Practicum in Communication**

**1-3 cr** Under faculty supervision, practicum students fill communication positions in university organizations (e.g. the student newspaper and radio station).

*Signed contract required at time of registration.*

*Prerequisite: Permission of instructor.*

### **COM 2970 - Directed Study in Cinema Studies**

**1-3 cr** Provides students the opportunity to work independently under the guidance of a faculty mentor. An Independent Study form describing the nature of the study and completed in conjunction with the faculty supervisor is required at the time of registration.

### **COM 3010 - News Media Ethics and Law**

**3 cr** The student examines basic ethical issues encountered daily by the news media including diversity, conflicts of interest, fabricating stories, privacy, use of deception and the need for compassion. The course will also touch on a handful of media law issues including libel and slander, the Freedom of Information Act, shield laws and First Amendment battles.

*Prerequisite: COM 1220*

*Fall*

### **COM 3020 - Documentary Workshop**

**3 cr** Study of the problems of documentary writing and production for public broadcasting. Students write, produce, direct, and videotape short documentary scripts.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: COM 2212*

*Alternate years Fall, even years*

### **COM 3050 - Media, Social Activism and Political Action**

**3 cr** This course examines how various media forms can, and have been, used to bring about social and political change. Because computer related media technologies, community, and alternative media are generally more accessible and multi-faceted than mainstream corporate outlets, in recent times they have been deployed more easily to influence or directly enact social or public policy change. Students study all these efforts. An important aspect of the course will be examining the current political system and media's integral role in both maintaining and challenging the status quo.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Prerequisite: COM 1220 or consent of instructor.*

*Fall, even years*

### **COM 3060 - Feature Writing**

**3 cr** Students will research and write in-depth features and editorials for newspapers and magazines and maintain a biweekly blog on a topic of their choice. Stories may be selected for submission to the student newspaper and university publications.

*Prerequisite: COM 1040, COM 2230 or consent of instructor.*

*Fall*

### **COM 3120 - Multimedia**

**3 cr** Through theory and practice, students will learn to use a variety of media to provide instruction in a number of content areas. Media will range from video through world wide web delivery of multi-media. Students will produce instructional materials for use by the university and community from needs assessment and educational objectives through project planning and production to distribution and evaluation.

*Prerequisite: COM 1211 and COM 2220 or consent of instructor.*

*Spring, odd years*

### **COM 3150 - Public Relations Campaigns**

**3 cr** This course focuses on the process of campaign development, management and evaluation in a professional setting. Students work in teams with local agencies to create and execute strategic, measurable and action-oriented communication plans. Utilizing the core principals and strategies of the public relations profession, students will have the opportunity to experience the practice of public relations as a management function and ultimately transform from student to practitioner.

*Prerequisite: COM 2150*

*Spring, even years*

### **COM 3750 - Special Topics in Public Relations**

**3 cr** The focus will be on the application of public relations for organizations that concentrate on specific areas such as health promotion, intercultural awareness and social justice. Students will become familiar with constituent, community, governmental and media relations, grant writing, and appropriate communication skill applications.

*Prerequisite: COM 2150*

*Spring, odd years*

### **COM 3760 - Special Topics in Media Studies**

**3 cr** This course is an in-depth exploration of specialized or advanced media topics and issues. Current controversies, events and concerns will inform the content of each course offering. Topics may include advocacy through social media, censorship, community and alternative media, and video games. As topics change, this course may be repeated for credit.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: COM 1220 or permission of instructor.*

*Fall*

### **COM 3780 - Special Topics in Journalism**

**3 cr** In-depth study of a particular variety of journalistic endeavor. Possible subjects include sports, public affairs, arts coverage and commentary. May be taken three times for course and program credit.

*Prerequisite: COM 2230.*

*Spring*

### **COM 3790 - Special Topics in Media Production**

**3 cr** This course provides a focused study in the theory and practice of a single aspect of media production (e.g. cinematography, editing, "spot" production, streaming media, a specific industry software package). Topics will vary by semester. May be taken twice for credit.

*Prerequisite: COM 1211*

*Studio fee \$20*

*Fall, odd years*

### **COM 3810 - Internship in Communication**

**1-12 cr** The student takes on a position of responsibility in a professional environment under the direction of an on-site supervisor and a faculty member. Experiences are available in newspapers, magazines, large and small radio and television stations, corporate facilities and other areas. (Castleton has specific programs with Vermont ETV and W18AE, Killington.) All students enrolled meet periodically to discuss experiences. (Students may take up to 15 credits in COM 3810 and COM 4810 combined.)

*Signed contract required at time of registration.*

*Prerequisite: Consent of instructor.*

### **COM 4010 - The Future of Communication**

**3 cr** This course will consider the explosive growth in new technologies used in various communication processes which together form the so-called "information revolution." Its intent is to provide students, as both potential consumers and leaders in the field, with information and skills they might need to consider the communication media of the future. It is not an overly technical or theoretical course, despite the name; however students will learn certain technical concepts in order to understand the possible uses, advantages and disadvantages of new technologies and their likely impacts on individuals, organizations and society. While most of the course material will be considered in traditional classes, there will be a course listserv (electronic mailing list) on which students will write about various topics related to the course and a course web site that will include links to many of the assignments.

*Prerequisite: General Education computing intensive course.*

*Fall, odd years*

### **COM 4020 - Screen Drama Workshop**

**3 cr** Study of drama for television with emphasis on blocking for the medium, television scene design, lighting, and special effects. Students produce, direct and videotape dramatic scripts.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: COM 2212*

*Spring*

### **COM 4030 - Script Workshop II**

**3 cr** (also listed as THA 4040 )

Students write and critique original scripts for stage, radio and screen. Material from this course may be used for student productions.

*Prerequisite: COM 2120 or consent of instructor.*

*Spring*

### **COM 4510 - Communication Portfolio**

**3 cr** In this course students develop and organize materials to support their career development efforts. Drawing from papers, stories, scripts, graphics, videos, audio files, etc. produced during their time as undergraduates, students produce online and hard copy portfolios and “reels.” Students reflect on their overall growth and development within their fields of study, and thoughtfully address the works selected for their portfolios.

Restrictions: Senior Standing

*Spring*

### **COM 4720 - Seminar in Communication**

**3 cr** Subjects announced at preregistration. May be taken more than once for credit.

*Prerequisite: COM 1220 or consent of instructor.*

*Spring*

### **COM 4810 - Internship in Communication**

**1-12 cr** See COM 3810 for description.

*Signed contract required at time of registration.*

*Prerequisite: Permission of instructor.*

### **COM 4820 - Practicum in Communication**

**1-3 cr** Under faculty supervision, practicum students fill communication positions in university organizations (e.g. the student newspaper and radio station).

*Signed contract required at time of registration.*

*Prerequisite: Permission of instructor.*

### **COM 4850 - Senior Project in Communication**

**3 cr** The student produces an independent project in his or her field under close supervision of a faculty advisor. Such projects may be in coordination with the university radio station, newspaper or local television facilities, but may not consist of an established position within these organizations. All students enrolled meet weekly to discuss projects.

*Prerequisite: Permission of instructor and senior standing.*

### **COM 4910 - Independent Study in Communication**

**1-3 cr** *Completed Independent Study form required at the time of registration, see Department for details.*

### **COM 4970 - Directed Study in Cinema Studies**

**1-3 cr** Provides students the opportunity to work independently under the guidance of a faculty mentor. An Independent Study form describing the nature of the study and completed in conjunction with the faculty supervisor is required at the time of registration.

## **Criminal Justice**

*Other relevant courses may be found under Psychology, Social Work, and Sociology.*

### **CRJ 1010 - Introduction to Criminal Justice**

**3 cr** An overview of the American criminal justice system, tracing its history and development and assessing its strengths and weaknesses. Roles of the agencies that comprise the criminal justice system (representing law enforcement, courts, and corrections) are examined.

*This course counts towards the Social & Behavioral Understanding Frame of Reference.*

*Every semester*

### **CRJ 2010 - Law Enforcement in America**

**3 cr** An examination of the history and evolution of law enforcement in the United States. Among the topics examined in this course are: law enforcement careers; the police role; selection, recruitment, and training of personnel; occupational socialization & the police subculture; discretion; management and organizational behavior; and patrol/investigative functions. Other issues considered include police use of force; police-community relations, job stress, and corruption/ethical problems.

*Prerequisite: CRJ 1010 passed with a grade of "C" or better.*

*Every semester*

### **CRJ 2020 - American Judicial Process**

**3 cr** A course designed to provide students with an overview of the American judicial process; examining its history, structure, and operation. Topics considered include: court organization and administration; the courtroom "work group;" the trial and appellate processes; problems that plague the courts; and alternatives to courts for conflict resolution.

*Prerequisite: CRJ 1010 passed with a grade of "C" or better.*

*Every semester*

### **CRJ 2080 - Correctional Philosophies and Practices**

**3 cr** An interdisciplinary study of the historical and contemporary philosophies and practices of sentencing, punishment, and rehabilitation in American corrections. The course will be a comprehensive examination of all facets of institutional and community-based corrections, including facilities, probation, intermediate sanctions, and parole, as well as special and controversial issues in the field. Field study will be an essential component of this course and may include field trips, interviews and other research, guest speakers, and/or community service.

*Prerequisite: CRJ 1010 passed with a grade of "C" or better.*

*Every semester*

### **CRJ 2110 - Community-Based Corrections**

**3 cr** An in-depth examination of contemporary, community-based correctional programs; exploring the evolution and development of such programs and considering how they compare with traditional forms of correctional intervention. Among the topics examined are: 'house arrest', halfway houses, diversion, probation & parole, and community service programs aimed at juvenile offenders, female offenders, and offenders with substance abuse problems.

*Prerequisite: CRJ 1010*

*Periodically*

### **CRJ 2210 - The Death Penalty**

**3 cr** An in-depth examination of the historical and contemporary use of capital punishment in American society. The course explores arguments surrounding the death penalty, death row, the historical and modern execution process, constitutional issues, alternatives to capital punishment, and related topics.

*Prerequisite: CRJ 1010 or consent of instructor.*

*Fall, even years*

### **CRJ 2510 - Criminal Law**

**3 cr** An examination of the evolution and development of substantive criminal law. Topics examined include: common law vs. statutory crimes; elements of a crime; parties to a crime; criminal responsibility; and defenses to criminal culpability. Selected portions of the Vermont criminal code are also examined.

*Prerequisite: CRJ 2020 or consent of instructor.*

*Every semester*

### **CRJ 2810 - Field Experience**

**2 cr** Supervised observations of criminal justice agencies. The student will become familiar with the criminal justice system through a sequence of monitored, short-term field observations. Regular class meetings and written reports required.

*Prerequisite: Sophomore standing or above, and consent of instructor.*

### **CRJ 2910 - Independent Study**

**3 cr** Directed individual study of criminal justice topics.

*Signed contract required at time of registration.*

*Prerequisite: Criminal Justice faculty approval is required before registration.*

### **CRJ 3010 - Crime Victims**

**3 cr** An interdisciplinary study of criminal victimization and prevention. The course examines patterns of crime, offending, and victimization and how to use such information to prevent violent and property crime, including rape, domestic violence, and hate crime. Other issues to be explored include victimization theories, prevention programs, treatment of victims, and victims' rights and remedies.

*Prerequisite: CRJ 1010, SOC 1010, and Junior standing or consent of instructor.*

*Spring*

### **CRJ 3020 - Criminal Justice Administration**

**4 cr** An examination of organizational and management theory as it applies to criminal justice agencies. Among the topics examined are: the organizational environment, employee motivation, job design, communication in the workplace, leadership and the use of power, organizational socialization, and managing organizational change. A lab is also required with this course.

*Prerequisite: CRJ 2010, CRJ 2020, CRJ 2080, with a "C" average or better and junior standing.*

*Fall*

### **CRJ 3025 - Crime Scene Investigation**

**3 cr** This course provides an introduction to crime scene investigation. Topics covered include: the crime scene search; documenting the crime scene; types of evidence; techniques for recognizing, collecting, and preserving crime scene evidence; the crime laboratory; and introducing evidence in court.

*Prerequisite: CRJ 1010, CRJ 2010, junior standing, or consent of instructor.*

*Fall*

### **CRJ 3030 - Evidence**

**3 cr** An examination of the rules of criminal evidence and the procedural guidelines applied to law enforcement agencies who gather that evidence. Among the topics considered are: types of evidence; materiality, relevance, and competence of evidence; the hearsay rule and its exceptions; lay vs. expert testimony; testimonial privileges; the "best evidence" rule; and the laws relating to arrest, search and seizure.

*Prerequisite: CRJ 1010, CRJ 2020, or consent of instructor.*

*Spring, odd years.*

### **CRJ 3040 - Women and Criminal Justice**

**3 cr** An examination of contemporary issues and research on women as offenders, victims of crime, and criminal justice practitioners.

*Prerequisite: CRJ 1010 or consent of instructor.*

*Periodically*

### **CRJ 3050 - Law and Society**

**3 cr** An examination of the nature and function of civil & criminal law in modern society. Current legal issues and their relationship to social institutions are highlighted.

*Prerequisite: CRJ 1010, SOC 1010, or consent of instructor.*

*Fall, alternate years*

### **CRJ 3060 - Constitutional Criminal Procedure**

**3 cr** An examination of the origins and development of the U.S. Constitution, particularly noting its significance in defining and limiting the authority of criminal justice personnel. This course will explore the role of the U.S. Supreme Court in developing constitutional law and examine key cases that have helped define the scope of 4th, 5th, 6th, 8th, and 14th Amendment protections.

*Prerequisite: CRJ 2020 and junior standing or consent of instructor.*

*Spring, even years.*

### **CRJ 3120 - White Collar Crime**

**3 cr** An exploration of work-related violations of criminal and regulatory law. Topics considered include: employee theft and misconduct; "crimes in the suites" committed by corporations and corporate officers; and offenses committed by government officials, and medical, legal, and other professionals. Theories of causation and suggested strategies developed to identify and control this serious, but often hidden, crime problem are also examined.

*Prerequisite: CRJ 1010 or consent of instructor.*

*Fall, alternate years*

### **CRJ 3140 - Mass Murderers and Serial Killers**

**3 cr** An examination of the crimes of mass murder and serial killing in the United States. Students will look at the history, traits, and characteristics of the killers, the crimes, and the victims. They will study the efforts of the law enforcement community to identify and track down such offenders, and criminal justice system efforts to deal with them after capture.

*Prerequisite: CRJ 1010, CRJ 2010, junior standing, or consent of instructor.*

*Fall*

### **CRJ 3160 - Juvenile Justice**

**3 cr** An examination of the procedures used in dealing with juveniles who come into conflict with the law. Course includes critical appraisal of the history and role of the juvenile courts and assessment of correctional strategies currently in use to treat juvenile offenders.

*Prerequisite: CRJ 1010, junior standing, or consent of instructor.*

*Spring*

### **CRJ 3170 - Ethical Issues in Criminal Justice**

**3 cr** This class in applied ethics is designed to introduce upper level CRJ students to ethical theories and help them apply these theories to real world dilemmas they may confront as criminal justice practitioners. Among the topics explored in this class are: the meaning of morality and ethics, the problem of defining right wrong/good-bad behavior, the connections between law, morality and justice, and the consideration of what consequences should befall those caught in unethical behavior. Ethical checklists and decision making strategies are also examined and evaluated.

*Prerequisite: Sophomore level standing and completion of at least two of the following: CRJ 2010, CRJ 2020, CRJ 2080.*

*Spring*

### **CRJ 3740 - Selected Topics in Criminal Justice**

**3 cr** Advanced study in criminal justice with specific topics to be announced prior to each semester. Course offerings will be determined by student demand and faculty availability. Specific topics may include: prisoner's rights. Specific topics may include: prisoners' rights, community justice, comparative criminal justice, private security and public safety, police civil liability, etc.

### **CRJ 3820 - Criminal Justice Proctorship**

**3 cr** Criminal Justice majors assume partial responsibility, under faculty supervision, for the progress of students in criminal justice courses. Sample duties might include conducting study sessions, preparing and distributing handouts, and leading discussion groups.

*Prerequisite: Junior or Senior standing and consent of instructor.*

*Every Semester*

### **CRJ 4720 - Senior Seminar in Criminal Justice**

**3 cr** This is the final, culminating course in a BA.CRJ student's academic career, where seniors will be expected to perform at a level appropriate for educated graduates about to enter the field. In this discussion-oriented course, students will be required to demonstrate the ability to retrieve, analyze, integrate, and apply knowledge gained through both research and prior study to contemporary issues in criminal justice. Additionally, the course will examine the future of agencies of the criminal justice system, as well as providing students with the opportunity to explore and clarify their own career options and goals.

*Prerequisite: Senior Criminal Justice majors graduating in same calendar year only, and consent of instructor.*

*Spring*

### **CRJ 4810 - Criminal Justice Internship and Seminar**



**5 cr** This course combines 125 hours of student participation in the operations of one host criminal justice agency with instructor-led seminar meetings held throughout the semester. The course is designed to give upper-level criminal justice majors the opportunity to acquire responsible, work-related experience in the field. Students must apply and be accepted into the Internship Program by both criminal justice faculty and the supervising agency. Both the criminal justice faculty instructor and the on-site supervisor will provide direction and supervision throughout the internship.

*Signed contract required at time of registration.*

*Prerequisite: CRJ 2810, Junior or Senior standing and consent of instructor.*

*Spring*

### **CRJ 4910 - Independent Study**

**1-3 cr** Available by arrangement with Coordinator.

*Signed contract required at time of registration.*

*Prerequisite: Senior standing and Criminal Justice faculty approval is required before registration.*

## **Dance**

*Other relevant courses may be found under Physical Education.*

### **DAN 1040 - Introductory Dance Workshop**

**3 cr** Introductory level workshop in specific dance techniques or styles such as ballet, jazz, modern or tap.

*Offered on an as needed basis*

### **DAN 1050 - Aerobic Dance**

**1 cr** *Half Semester (First Half of Semester/Second Half of Semester)*

### **DAN 2020 - Teaching Rhythms And Dance**

**2 cr** This course provides students the opportunity to discover the science and art of teaching dance and rhythms. Outcomes for this course are aligned to physical education teacher education competencies, and both content knowledge and physical demonstration of skills will be assessed. This course requires a significant amount of physical activity.

*Spring*

### **DAN 2140 - Intermediate Dance Workshop**

**3 cr** Intermediate level workshop in specific dance techniques or styles such as ballet, jazz, modern or tap.

*Prerequisite: DAN 1040 or permission of department or instructor.*

*Offered on an as needed basis*

### **DAN 2730 - Special Topics in Dance**

**3 cr** An in-depth examination of specific dance styles. Exact course descriptions will be provided prior to each registration period. May be taken up to two times for department credit.

*Spring*

### **DAN 3133 - Advanced Dance Workshop**

**3 cr** Advanced level workshop in specific dance techniques or style such as ballet, jazz, modern or tap.  
*Prerequisite: DAN 2140 or permission of the instructor or department chair.*  
*Periodically*

## **Economics**

*Other relevant courses may be found under History, Geography, Global Studies, Environmental Studies, and Political Science.*

### **ECO 1010 - Economics and Society**

**3 cr** An introductory course focused upon the evolution of western market systems. We start with the nature of the local economy in the middle ages. From those origins in feudal society sprang mercantilism and ultimately capitalism. What facets of early trading systems survive; what were jettisoned? How has the evolved system acted upon the wider socio-political realm and in turn been shaped by the political choices history throws up?  
*This course fulfills the Social and Behavioral Understanding Frame of Reference.*  
*Every semester*

### **ECO 1030 - The Economics of Wealth and Poverty**

**3 cr** This course is an examination of inequalities of income and wealth, primarily in the U.S., using economic tools of analysis. Topics that will be discussed include: how wealth and poverty are measured, the extent of poverty, competing economic explanations and analyses of the causes of extreme poverty and inequality, the consequences inequality has for the economy, and evaluations of public and private sector responses to poverty. These topics will also allow us to touch on such areas as economics of the family, discrimination, individual vs. systemic causes, and the subjective experience of poverty.  
*This course fulfills the Social and Behavioral Understanding Frame of Reference.*  
*Spring*

### **ECO 1040 - Global Economic Issues**

**3 cr** In the past fifty years globalization has profoundly changed economic reality for hundreds of millions of people throughout the world, for some much for the better and for others decidedly not. This course examines that changing reality and analyzes its causes and consequences from a variety of perspectives. We address many of the difficult, complex, and contentious issues that arise as the people of the world try to create prosperous and thriving societies.  
*This course fulfills the Social and Behavioral Understanding Frame of Reference.*  
*Spring, even years*

### **ECO 2040 - Macroeconomics in a Global Context**

**3 cr** This course serves as an introduction to economic principles in general as well as macroeconomics in particular. How do we understand the workings of the U.S. economy, in its global context? This course looks at the economy holistically, with an emphasis on its interconnections. We examine the connections between competing economic analyses and competing policy prescriptions to prevent or repair economic problems such as unemployment, inflation, and unsustainable growth – within the context of a rapidly globalizing economy.  
*Prerequisite: MAT 1221 or MAT 1320 or MAT 2021 or equivalent or concurrent enrollment in MAT 2021.*

*Every Semester*

### **ECO 2050 - Microeconomics in a Global Context**

**3 cr** An introduction to microeconomic theory and its applications placed in a global context. Attention given to: 1) economic behavior of consumers and businesses; 2) the pricing of productive inputs, income distribution and redistribution; 3) the nature and functioning of markets; and 4) the consequences of imperfect competition and imperfect information.

*Prerequisite: MAT 1221 or MAT 1320 or MAT 2021 or equivalent.*

*Every Semester*

## **ECO 2120 - U.S. Economic History**

**3 cr** This course surveys economic history for the United States, from the colonial period through the twentieth century. Special attention is given to the institutional basis of U.S. economic society, including slavery, industrial developments, international trade and political developments, and various trends in economic growth, income distribution, and class, gender, and race relations. As much has happened on this continent over the past 400 years, we cannot expect to become experts on all relevant topics, and will thus try to balance our time between the broader narrative of economic history, and in-depth analysis on some specific topics.

*This course fulfills the World Views Frame of Reference.*

*Fall, even years*

## **ECO 2910 - Independent Study**

**1-3 cr** Available by arrangement with the instructor and department chair. A student-faculty contract must be executed prior to registration. Signed contract required at time of registration.

## **ECO 3020 - Money, Banking, and the Financial Services Sector**

**3 cr** An examination of the role of money in the economy. What is money? How does the federal reserve, our central bank, control monetary conditions? We will scrutinize various theories of inflation and how financial markets affect and respond to changes in the value of money: actual or anticipated.

*Prerequisite: ECO 2040.*

*Periodically*

## **ECO 3050 - Women in the Economy**

**3 cr** Why do we observe differences between women and men in terms of work, income, consumption and ownership of property? Why have these differences varied over time, between countries, and across ethnic groups and social classes? This class draws upon both traditional and critical economic theories and analyses as well as empirical evidence to address these questions and also to evaluate the policy issues surrounding gender-based economic differences. Many of these questions are controversial; no single theory or perspective will be offered as the correct one. Instead, the process developed will be one of critical thinking. The class is expected to be of interest to men as well as to women.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Prerequisite: any Economics course is recommended, but not required.*

*Spring, even years*

## **ECO 3060 - Political Economy of the Environment**

**3 cr** How do we have both a healthy environment and a healthy economy? The goal of this class is to examine the intersections of economic and ecological systems in a social and political context, and to help students develop an understanding of the controversies around the analytical and policy frameworks now evolving which may or may not help to solve some pressing environmental problems. In particular, students will learn to use the tools of economic

analysis, both neoclassical and alternative, to provide perspective to the issues. They can expect to gain insight into the complexity of the political and economic issues surrounding the environmental and environmental justice movements. Finally, students can expect to gain insight into the debates around growth and sustainability.

*Prerequisite: any Economics course is highly recommended, but not required.*

*Spring, odd years*

### **ECO 3080 - Foundations of Economics for Secondary Educators**

**3 cr** This course will provide the necessary economics background for the teaching of the middle and high school social studies curriculum, and supports the qualification of students for state licensure endorsement standards. The basic principles of the sub-fields of economics will be covered including: macroeconomics, microeconomics, international economics, economic development, economic history, and the history of economic thought. It fulfills the Economics requirement for History and Social Studies majors and is essential for prospective teachers. Students are encouraged to take the course during their junior or senior year. Sophomore standing or higher is required.

*Fall, even years*

### **ECO 3210 - Great Ideas in Economics**

**3 cr** This course explores the underlying questions and enduring themes in economic thought and debate. What is economic justice? What is the proper role of government in the economy? Are capitalism and democracy compatible? What is our duty to future generations? We will consider answers offered by various thinkers—from Adam Smith to Karl Marx, from John Maynard Keynes to Milton Friedman. Then we will fashion our own answers for our own time.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Prerequisite: Sophomore standing and one course in Economics; or consent of instructor.*

*Fall, odd years*

### **ECO 3220 - International Trade and Development**

**3 cr** This course offers an overview of theory, recent data, and controversies surrounding the interlinked topics of international trade and economic development in an increasingly integrated world economy. We will examine the philosophical commitments underpinning the debates, followed by a further examination of economic concepts, and a look at the facts of the global economy, with a primary focus on the developing world.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Prerequisite: At least one previous course in economics is highly recommended but not required.*

*Fall, even years*

### **ECO 3240 - Intermediate Macroeconomics**

**3 cr** This course builds upon the work of the macroeconomics principles course to provide a deeper and more extensive understanding of the workings of the U.S. economy in its global context. Again considering the economy holistically, we study at a more advanced level competing economic analyses and competing policy prescriptions regarding national income, output, employment, unemployment, inflation, interest, income and wealth distribution, international trade, growth and environmental sustainability. Fundamental measurements of the economy will also be explored. Orthodox and Heterodox economics will both be covered.

*A minimum of sophomore standing required.*

*Prerequisite: ECO 2040 or equivalent with a grade of "C" or better*

*Spring, odd years*

### **ECO 3250 - Intermediate Microeconomics**

**3 cr** This course builds on the fundamental principles of microeconomics with a deeper level of analysis and exploration, to provide students with a more internalized sense of both the potential and limits of microeconomic theory in its applications to real-world issues. Students will study consumer theory, theory of the firm, market structure, and factor markets, along with explorations into behavioral economics (including game theory), non-rational choice, and specific applications such as income distribution, externalities, general equilibrium, and government policies. Students will have the opportunity to apply concepts and ideas through written work, presentations, and projects such as experiments or surveys.

*Minimum of sophomore standing.*

*Prerequisite: ECO 2050 or equivalent with a grade of "C" or better  
Fall, even years*

### **ECO 3810 - Internship in Economics**

**1-12 cr** By arrangement with the coordinator of Economics.  
*Signed contract required at time of registration.*

### **ECO 4810 - Internship in Economics**

**1-12 cr** By arrangement with the coordinator of Economics.  
*Signed contract required at time of registration.*

### **ECO 4910 - Independent Study**

**1-3 cr** A student-faculty contract determines content. Intended for students wishing to study upper level economics topics not otherwise available, or to carry out economic research. By arrangement with instructor and department chair.  
*Signed contract required at time of registration.  
Prerequisite: consent of instructor.*

## **Education**

### **EDU 1012 - Education Inquiries**

**3 cr** This course critically analyzes our societies' educational institutions. Students explore the historical, social, and philosophical foundations of education. The course will cultivate an understanding of the teaching profession today by exploring provocative contemporary issues. Students will explore political, economic, legal, international, and cultural perspectives on education, including issues of adequacy, discrimination, access, and equity. Field observations will be central to Educational Inquiries. Groups of students will periodically observe highly regarded local classes, then engage in seminars designed to understand the classroom culture, instruction, curriculum, and assessments that they observe. Model faculty observed will be asked to share a brief overview of their lesson, which will be the basis for reflection on classroom practices.

*Fee \$105 to cover portfolio software  
Every semester*

### **EDU 2011 - Reading/Writing: Elementary Classroom**

**3** This course focuses on how constructivist, language-based principles apply to learning to read and to write. It is an inquiry course focused on two principal questions: (1) What is your relationship to language? Who are you, a

prospective teacher, as a reader and a writer? (2) What is the nature of language and what is its place in the teaching/learning process in an elementary school classroom? This course offers practical experience in how to manage and monitor a reading-writing classroom through the design and/or use of appropriate curricula, the organization of the physical space and learning processes, and the development of methods of assessment and instruction. Fieldwork will include a child study that addresses both literacy learning and exceptionality.

*Prerequisite: EDU 1012 with a grade of B- or better.*

*Co-requisite: EDU 2012*

*Fall*

### **EDU 2012 - Special Education: Elementary Classroom**

**3 cr** This course prepares elementary teachers to instruct students with high incidence and low incidence challenges who are included in the general education classroom. Topics include instruction in assessment, reading and writing, communication, behavior management, assistive technology, and special education law as it informs each student's Individual Education Plan. Fieldwork will include a child study that addresses both exceptionality and literacy learning.

*Prerequisite: EDU 1012 with a grade of B- or better.*

*Co-requisite: EDU 2011*

*Fall*

### **EDU 2031 - Disciplinary Literacies: Secondary Classroom**

**3 cr** This course focuses on how constructivist, sociocultural language-based learning theories and functional linguistics principles apply to supporting disciplinary literacy practices in secondary school content courses. This is an inquiry course focused on these essential questions: (1) What are the disciplinary literacy practices of your content area? Who are you, a prospective teacher of your discipline, as a disciplinary literacy user? (2) What is the role of socially just and culturally relevant pedagogies to make Disciplinary Literacy practices transparent in a secondary school classroom? Ultimately, the purpose is for you to (1) identify and put into practice principles based on the theory that disciplinary reading and writing generate thinking and learning in the content areas and (2) learn specific reading and writing strategies that encourage students to be active and committed learners in their subject matter fields. Fieldwork will include a study of Disciplinary Literacies and classroom applications that addresses both literacy learning and exceptionality.

*Prerequisite: EDU 1012 with a grade of B- or better.*

*Co-requisite: EDU 2032*

*Spring*

### **EDU 2032 - Special Education: Secondary Classroom**

**3 cr** This course prepares secondary teachers to instruct students with high incidence and low incidence challenges who are included in the general education classroom. Topics include instruction in assessment, reading and writing, communication, behavior management, assistive technology, and special education law as it informs each student's Individual Education Plan. Fieldwork will include a child study that addresses both exceptionality and literacy learning.

*Prerequisite: EDU 1012 with a grade of B- or better.*

*Co-requisite: EDU 2031*

*Spring*

### **EDU 2110 - Introduction to Exceptional Populations**

**3 cr** This course is a study of history, philosophy, and current practices relating to education of children and young adults with special needs: the culturally different, visually handicapped, deaf and hearing impaired, learning impaired, emotionally disabled, intellectually gifted, physically handicapped, and learning disabled. The course also includes an overview of Public Law 94-142 and its implication for the inclusion of youngsters into regular classroom environments.

## **EDU 2140 - Cognitive Differences and Emotional Challenges**

**3 cr** This course focuses on students with Low Incidence Disabilities grades K through 21 years who have severe and multiple disabilities, autism, moderate-severe learning impairments, sensory disabilities, and severe emotional and behavioral disabilities. Pre-service special educators will be learning about the characteristics of these students and the strategies to teach them academic and social skills within the regular classroom, in resource rooms, and in substantially separate classrooms. Emphasis is placed on interventions and assessment for functional academics, blended with life-skills and adaptive technology for students in K through 21 years of age. The field component of this course is 15 hours based on licensing area.

*Prerequisite: EDU 1000*

*Fall*

## **EDU 2610 - Middle Grades Curriculum**

**3 cr** Middle Grades curriculum is interdisciplinary in nature, student-centered, and shared through the teaming model. In this class, students will learn best practices for middle school teaching and learning. The class will address how to create a culture of respect through peer leadership, strategies that benefit the physical, emotional, cognitive, and social needs of young adolescents, and 21st century brain-based, reflective practice.

*Prerequisite: Complete EDU 1012 with a grade of "B" or better.*

## **EDU 3011 - Elementary Pedagogy**

**3 cr** This course prepares elementary teachers to support the needs of their students at a systems level by addressing academic, social, cultural, and emotional diversity in classrooms. To facilitate the creation of equitable learning environments, the course will focus on Universal Design for Learning (UDL) and Multi-Tiered Systems of Support (MTSS). Drawing from the needs of students in the associated field placement, teacher candidates will consider the needs of their learners to create cross-curricular lessons that are based on prominent learning theories and Common Core Standards.

*Prerequisite: EDU 1012, EDU 2011 and EDU 2012 with grades of B- or better.*

*Spring*

## **EDU 3012 - Secondary Pedagogy**

**3 cr** Secondary teachers need to understand the habits of mind specific to their content area in order to fully engage their students in the unique ways people in specific disciplines come to know the content, language, processes, and history. This course, guided by national standards and principles, will examine topics and processes relevant to understanding how knowledge is acquired in each of the secondary school subjects.

*Prerequisite: EDU 1012, EDU 2031 and EDU 2032 with grades of B- or better.*

*Fall*

## **EDU 3130 - Learning Differences and Attention Difficulties**

**3 cr** This course focuses on students with High Incidence Disabilities K through age 21 who have learning disabilities, attention deficit hyperactive disorders, and mild/moderate emotional and behavior disorders. Pre-service special educators will learn about the characteristics of these students and the strategies used to teach them collaboratively within the regular classroom and in resource rooms for academic and social success. Emphasis will be placed on diagnosing and remediating literacy difficulties across academic areas, and utilizing assistive technology to accommodate for these challenges in grades K through 21 years of age. The field component of this course is 15 hours based on licensing area.

*Prerequisite: EDU 1000*

*Spring*

## **EDU 3280 - Behavior Differences: Social and Academic Success for All**

**3 cr** The course will focus on positive strategies to reduce problem behavior, increase academic achievement and improve social behaviors across all environments. Education students will develop knowledge and skills to prevent problem behavior and to intervene appropriately in crisis situations. The goal is to establish safe, positive classroom and school climates that will enhance the acceptance of students with behavioral challenges and will increase their self-management skills, self-esteem, and academic success.

*Prerequisite: EDU 2110 or consent of the instructor.*

*fall*

## **EDU 3370 - Models of Assessment and Intervention in Special Education**

**4 cr** This course focuses on the role of the special education teacher K through 21 years of age, as he/she teaches students with learning disabilities, learning impairments, and behavioral challenges in the resource room and in the regular classroom. The emphasis is on planning, instruction, and assessment for students K through 21 years, including the linkage of assessment/evaluation with curriculum/instruction and technology. Students will be exposed to the most common assessment measures used to identify and teach students with special needs and the "paper process" that is legally required for all students with identified challenges. Emphasis is placed on literacy instruction and access to the general education curriculum. The field component of the course (60 hours) is designed to give the student hands-on practice, and opportunities for observation, teaching, and assessment that bridges previous coursework and leads to student teaching.

*Prerequisite: EDU 1000*

*Fall*

## **EDU 3380 - Collaboration and Special Education Law**

**3 cr** This course is an overview of laws that govern special education for students grades K through age 21. Special educators will learn collaborative strategies for their work with regular classroom teachers, specialists, parents and administrators. Individuals with Disabilities Education Improvement Act (2004), VT State Regulations, the Family Education Rights and Privacy Act (FERPA), and Section 504 of the Rehabilitation Act 1973 will be explored.

*Prerequisite: EDU 1000*

*Spring*

## **EDU 3415 - Science for Elementary Teachers**

**3 cr** In this science inquiry based course, students will develop an in-depth understanding of how children learn inquiry-based science by learning current methods, developing authentic lessons, and by participating in informal field experiences. Teaching and assessment experiences will be based on criteria established in the Next Generation Science Standards. This course is appropriate for Education majors seeking additional content-specific pedagogy as well students who may be interested in an initial experience in education.

*Prerequisite: EDU 1012 with a grade of B- or better.*

*Co-requisite: MAT 3020 recommended.*

*Fall*

## **EDU 3450 - Instructional Application of Computers**

**3 cr** Students will study and use different applications of computers that enhance a student's ability to learn and to express ideas. Topics will include integrated software packages, subject specific applications, multi-disciplinary integration, and an introduction to multi-media.

*Prerequisite: EDU 2110 and recommended experience with a word processor.*

*Lab fee \$25.*



## **EDU 3620 - Middle Grades Organization**

**3 cr** The "middle school" model is unique. It differs from the "junior high" model and other traditional classroom structures. In this class, students will learn how middle school organization meets the needs of young adolescents. We will address the physical, emotional, cognitive, and social needs of this particular age group and explore how structure affects learning. Student leadership, student-led conferences, teaming, scheduling, interdisciplinary planning, morning meetings and cooperative groupings, transitions, civic engagement, and personalized learning will be discussed.

*Prerequisite: Complete EDU 1012 with a grade of "B" or better.*

## **EDU 3630 - Middle Grades Embedded Literacy**

**3 cr** In this course, we will discuss reading as a thinking process and the acquisition of knowledge as students "read" the world. Young adult literature, the multi-literacies of 21st century classrooms, and technology tools will be introduced. We will explore why some students struggle to read and write, the interventions being used in schools, and how to foster reading and writing for pleasure.

*Prerequisite: Complete EDU 1012 with a grade of "B" or better.*

## **EDU 3900 - Independent Study**

**1-3 cr** Hours by arrangement. Consent of department chair. Signed contract required at time of registration.

## **EDU 4031 - Educational Collaborations**

**5 cr** This course represents an interdisciplinary collaboration, fusing content and perspectives from Curriculum, Instruction, and Assessment (CIA), Special Education, and Literacy. Thoughtful and substantive inquiry and opportunities for deep reflection promote analytical and creative professional practice. Integrating the three components allows students to refine their pedagogical practices through fieldwork that develops skill in meeting the needs of diverse learners. Each semester's Educational Collaboration cohort will facilitate a public, community-oriented event, driven by local issues, needs, and questions. Thus, recognizing the importance of social justice in education, civic engagement practices also emerge as central to this course's vision.

*Prerequisite: EDU 1012, and either EDU 2011 and EDU 2012, or EDU 2031 and EDU 2032 with grades of B- or better.*

*Every semester*

## **EDU 4510 - Assessment of and for Learning in Career and Technical Education Classrooms**

**3 cr** This course is designed to develop the conceptual and technical skills required by teachers to help them implement meaningful instructional strategies for effective learning. The course will outline procedures for designing or selecting, administering and interpreting, a variety of formative and summative assessment measures typically used in schools. The use of a range of assessment measures in the academic and social skills areas will form the core of the content to be covered.

*Restricted to students matriculated in the Career and Technical Education program.*

*Summer*

## **EDU 4520 - Curriculum Management in Career and Technical Education**

**3 cr** The curriculum management course is designed to help ensure that all students will get the most out of their education. The more global goal of curriculum management is for Career and Technical Education students to use all the knowledge and skills they have learned to contribute to society in a meaningful and beneficial way. All stakeholders in any given school contribute in ways that help to see to it that curriculum management is carried out, as

best as possible. Curriculum refers to what is written to be taught and tested at different student levels, in specific areas or courses. After evaluating test results, CTE teachers can determine the most effective methods for imparting knowledge to their students.

*Restricted to students matriculated in the Career and Technical Education program.*

*Summer*

### **EDU 4530 - Learning Styles and Diversity in Career and Technical Education Classrooms**

**3 cr** This course will provide Career and Technical Education teachers with a framework for understanding the students that make up today's technical center classrooms. Participants will look at bias in schools and curricula and within themselves and explore factors that make students diverse and the implications of diversity in technical education classrooms. Participants should gain an understanding of best practices/method for developing positive empowering relationships with students and the development of classroom communities. Specific emphasis will be on student learning styles and modalities.

*Restricted to students matriculated in the Career and Technical Education program.*

*Spring*

### **EDU 4540 - Instructional Practices and Tiered Interventions in Career and Technical Education**

**3 cr** This course provides Career and Technical Education students with background knowledge of adolescent development as well as principles of effective teaching and training practices. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, and utilize a tiered intervention approach (RtI) when students are not learning.

*Restricted to students matriculated in the Career and Technical Education program.*

*Summer*

### **EDU 4550 - Technology in Career and Technical Education**

**3 cr** This course will introduce students to the ways in which technology and the electronic portfolio process deepen prospective Career and Technical Education teachers' abilities to learn, to write analytically and reflectively about their own learning, and to further their own professional development. Specific attention will be paid to the application of personal computers to prepare written, graphic, database, telecommunication and interactive media materials that accommodate diverse populations in career and technical education settings. Students will learn to apply what they experience in this course to the curriculum they provide for students.

*Restricted to students matriculated in the Career and Technical Education program.*

*Fall*

### **EDU 4590 - Capstone Project**

**6 cr** This proposed Capstone course is an integral part of the Career and Technical Education (CTE) experience. Students will develop a Capstone Project that will exhibit their knowledge of the course content and their ability to apply the skills gained over the course of their three-year CTE and 21-credit CU experiences.

*Restricted to students matriculated in the Career and Technical Education program.*

*Spring*

## **EDU 4720 - Student Teaching Seminar**

**3 cr** The seminar prepares the student for the student teaching experience, supports the student during this experience and introduces and/or reviews competencies associated with the role of the professional educator. Taken concurrently with EDU 4871 and EDU 4872.

*Prerequisite: Required Education courses and Senior standing.*

## **EDU 4871 - Directed Student Teaching I**

**6 cr** This course is an opportunity for the student to teach under the guidance of a qualified cooperating teacher and university supervisor. Taken concurrently with EDU 4720 and EDU 4872.

*Prerequisite: Required Education courses, departmental recommendation, professional and intellectual competencies as stated in exit requirements.*

## **EDU 4872 - Directed Student Teaching II**

**6 cr** Extension of student teaching. Under the guidance of a qualified cooperating teacher, the student gradually assumes responsibilities involved in classroom teaching. School and community relations are emphasized. Must be taken concurrently with EDU 4720 and EDU 4871.

*Lab fee \$10.*

## **EDU 4900 - Independent Study**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

## **INT 1090 - Education and Inequality**

**3 cr** In this course, we will examine the current state of education through a process of problematizing it. We will look at how education impacts people's lives- their practices, their visions of society, and their social relationships. Specifically, we will reflect on our own educational experiences as they relate to larger social institutions and forces.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Fall*

## **English**

General Policy Statement: Students write critical and/or research papers in all English Department courses. NOTE: Literature courses are designated by an "(L)" after the course title.

## **ENG 0040 - Essential Writing**

**1 cr** Students whose test scores indicate underdeveloped writing skills must enroll in this course. Through close study of their own writing and the writing of others, these students learn the essentials of writing, particularly grammar and usage, sentence structure, punctuation, and mechanics. *Credit for this course does not count toward diploma requirements. Concurrent enrollment in ENG 1010 is required.*

*Every semester*

## **ENG 1010 - Introduction to Academic Writing**

**2 cr** Students whose test scores indicate underdeveloped writing skills must enroll in this course. These students learn about the rhetorical concepts of writer, audience, purpose, and language, and about the relationship between these concepts and academic writing. Through a variety of academic reading and writing assignments, they apply these concepts to their own writing and to the writing of others. *Credit for this course does count toward diploma requirements. Concurrent enrollment in ENG 0040 is required. NOTE: Students enrolled in ENG 0040/1010 must pass these courses before taking ENG 1061.*

*Every semester*

## **ENG 1061 - English Composition**

**3 cr** Students study and practice the forms of writing most important to academic thought and expression, including those conventions that govern how to report and document the thoughts of others. Not only do they review grammar and usage, punctuation and mechanics, but they consider how the nuances of language and style affect the other elements of rhetoric. Students should complete this course their first year.

*Prerequisite: ENG 0040/ENG 1010 or equivalent.*

*Every semester*

## **ENG 1070 - Effective Speaking**

**3 cr** Students prepare and deliver short speeches. They practice how to choose, limit, and arrange what they say according to their audience and purpose; how best to address an audience; how to use visual aids effectively; and how to report and document the thoughts of others. Students should complete this course their first year.

*Every semester*

## **ENG 1310 - Introduction to Literature (L)**

**3 cr** This course asks students to consider and apply the variety of formal strategies by which accomplished readers interpret, appraise, and appreciate fiction, poetry, and drama. English majors should complete this course their first year.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: ENG 0040/ENG 1010, or equivalents.*

*Every semester*

## **ENG 2010 - Expository and Argumentative Writing**

**3 cr** Primarily concerned with writing that explains or elaborates and writing that persuades, this course builds upon the foundation laid by ENG 1061. Further emphasis is given grammar and mechanics, development and style, with particular attention paid the skills of critical thinking and the strategies of persuasion. English majors must complete this course their first or second year.

*Prerequisite: ENG 1061.*

*Spring/Fall, even years*

## **ENG 2101 - Creative Writing**

**3 cr** An introduction to creative writing, this course is designed for the beginning writer or student interested in learning about writing original poetry, short stories, or creative non-fiction.

*Prerequisite: ENG 1061.*

*Periodically, Spring 2016*

## **ENG 2161 - World Literature through Renaissance (L)**

**3 cr** This course investigates salient texts from a variety of different cultures, most of which are related to one another by origin or influence. The booklist changes each time the course is offered, and texts are chosen for the contributions they can make to students' knowledge of world literature and ability to contextualize the events, texts, and persons of today's world. Recent selections have included Plato's Symposium, the Bhagavad Gita, the Koran, Poems of Rumi, and Dante's Paradiso.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: ENG 1061. Highly recommended: ENG 1310.*

*Fall, even years*

## **ENG 2162 - World Literature from Enlightenment (L)**

**3 cr** In the novels, poetry, and essays read for this course, the major religious traditions confront modernity. Among the changes to which these texts respond are: the voyages of exploration and discovery, the religious warfare that shook Europe in the seventeenth century, the Enlightenment and its violent triumph in the French Revolution, and the modern experience of world war.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: ENG 1061. Highly recommended: ENG 1310.*

*Spring, odd years*

## **ENG 2215 - Southwestern Literature**

**3 cr** The course emphasis will be on writing and region, about how environment shapes expression. Students will learn about the three major culture groups of the Southwest, indigenous, Hispanic and Anglo. Readings will include personal accounts, poetry and fiction written by members of these groups. Written assignments will include analyses, descriptions and creative works.

*Course only offered as part of the Santa Fe semester.*

## **ENG 2260 - Touchstones of Western Literature (L)**

**3 cr** This course provides a representative sampling of biblical, classical, medieval, Renaissance, and modern modes of thought, feeling, and expression. Reading includes examples from the Bible, classical epic and tragedy, medieval allegory or romance, Shakespeare, satire, and the nineteenth century novel.

*Prerequisite: ENG 1061, and at least sophomore standing.*

*Every semester*

## **ENG 2270 - Honors Touchstones (L)**

**3 cr** This course is available to new students with considerable accomplishments in high school and on college entrance exams. It is a study of readings comparable to those in ENG 2260 and involves frequent and significant writing about those readings. Upon successfully completing this course, students are exempted from ENG 1061.

*Prerequisite: invitation from department chair.*

*Spring*

## **ENG 2271 - English Literature: Anglo-Saxons to 18th Century (L)**

**3 cr** This course introduces the major authors, genres, and motifs of English literature from its inception to the end of the neoclassical period. A wide range of materials is presented, from the development of the English language and its Anglo-Saxon base to masterfully crafted rhymed couplets, from the Canterbury pilgrims to Dr. Faustus, from the Red Crosse Knight and Oroonoko to Satan and a cat named Jeoffry, from Grendel to Gulliver.

*Prerequisite: ENG 1061. Highly recommended: ENG 1310.*

*Fall*

### **ENG 2272 - English Literature: 18th Century to Present (L)**

**3 cr** Continuing the introduction begun in ENG 2271, this course spans the Romantic, Victorian, modern, and contemporary periods. Again, its scope is broad: from Songs of Innocence to A Room of One's Own, from Manfred to Kurtz, Frankenstein's monster to Godot, from Heathcliff and Aurora Leigh to J. Alfred Prufrock and Stephen Dedalus, from the early Romantic poets' Neoplatonism to the somber mood and modes following the cataclysmic First World War.

*Prerequisite: ENG 1061. Highly recommended: ENG 1310.*

*Spring*

### **ENG 2311 - American Literature: Colonial to Civil War (L)**

**3 cr** This course examines the formal and philosophical features of American literature through the Civil War, particularly those features that resulted from the exhilarating yet complex, even contradictory, new American character. Reading includes fiction, poetry, and essays that characterize and illustrate colonial, Romantic, and Civil War era literary endeavor.

*Prerequisite: ENG 1061. Highly recommended: ENG 1310.*

*Fall*

### **ENG 2312 - American Literature: Civil War to Present (L)**

**3 cr** This course examines the formal and philosophical features of American literature from the Civil War to the present, particularly those features wrought by the Civil War, by urbanization, by advances in science and psychology, and by the two world wars. Reading includes fiction, poetry, and drama that characterize and illustrate literary regionalism, realism, naturalism, and modernism—and that begin to characterize contemporary American literature by, and against, those traditions.

*Prerequisite: ENG 1061. Highly recommended: ENG 1310.*

*Spring*

### **ENG 2411 - Nineteenth Century Children's Literature (L)**

**3 cr** A professional literature for children barely existed before the nineteenth century. This course focuses on such writers as Carroll, Lear, Alcott, Stevenson, and Andersen, with some attention given their few predecessors, their contemporaries, and the twentieth century writers who followed them.

*Prerequisite: ENG 1061 and at least sophomore standing. Highly recommended: ENG 1310.*

*Fall*

### **ENG 2412 - Twentieth Century Children's Literature (L)**

**3 cr** Including Beatrix Potter, A. A. Milne, Kenneth Grahame, J. M. Barrie, Maurice Sendak, and a variety of other authors, this course examines twentieth century trends in children's literature. Particular focus is given the development of books designed exclusively for children, the use of fantasy as a counterpane to reality, and the issues evolving from realistic fiction for children.

*Prerequisite: ENG 1061 and at least sophomore standing. Highly recommended: ENG 1310.*

*Spring*

### **ENG 2515 - Teaching with Non-Print Media Pedagogy Lab**

**1 cr** This pedagogy lab, guided by the Common Core and Vermont Standards, will explore the pedagogical value and use of non-print media- including film, television, and various web-based platforms. Students will demonstrate facility in using appropriate terminology and technology and will present lessons using the media and lessons analyzing and evaluating the media. Appropriate for students who wish to become either elementary or secondary teachers.

*Fall*

### **ENG 2910 - Independent Study**

**1-3 cr** First-year students and sophomores do independent and substantial scholarly or creative work. They should decide upon the goals, scope, and method of their project with a cooperating instructor. They must then have their project approved in writing by both the instructor and the department chair before registering for the course. *Signed contract required at time of registration.*

### **ENG 3060 - Technical and Professional Writing**

**3 cr** This course introduces students to the writing demanded of many liberal arts graduates in their work. Students practice drafting, revising, and editing a variety of documents—including letters, procedures, reports, evaluations, and proposals—for audiences and purposes related to students’ prospective careers in such fields as publishing, the fine arts, the social and natural sciences, history, mathematics, and literature and language. The course emphasizes clarity, concision, and correctness as qualities of effective style. Students use computers as tools for writing.

*Prerequisite: ENG 1061. Highly recommended: ENG 2010.*

*Fall, odd years*

### **ENG 3070 - Writing Non-Fiction**

**3 cr** Students practice the art of writing non-fiction that interests and entertains as it informs the reader. After writing short autobiographical pieces and character sketches, students concentrate on topics of their choice. For example, they may write about personal experiences or family histories, interesting individuals, or communities, nature or the environment, or other topics from their major fields of study or prospective careers. While drafting, revising, and editing their work, students apply fundamental strategies for writing effective narration and description.

*Prerequisite: ENG 1061 recommended: ENG 2010.*

*Periodically*

### **ENG 3160 - Teaching Writing**

**3 cr** For English majors and others, who learn how to help university students through the process of writing essays and research papers and to assist English department faculty in teaching writing courses and evaluating student writing.

### **ENG 3170 - Epic Poetry (L)**

**3 cr** This course studies a selection of important texts of the epic tradition, from its ancient beginnings (including Homer) to its rebirth as an English poetic form. Issues considered may include translation, influence, orality and literacy, and the claims of poetry on the epic scale.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2161, and ENG 2162.*

*Fall, odd years*

### **ENG 3180 - Lyric Poetry (L)**

**3 cr** Characterized by subjectivity, emotion, imagination, and melody, the varied forms of lyric poetry are studied from among the best of Western literature. Particular attention is paid such fixed forms as the sonnet, the villanelle, and the

sestina.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310.*

*Fall, even years*

### **ENG 3210 - Greek Tragedy (L)**

**3 cr** A study of selected dramas by Aeschylus, Sophocles, and Euripides, with attention to their wisdom about mankind and gods. Close readings of these tragedies are supplemented by attention to the Ancient Greek context and to contemporary prose, including Aristotle's Poetics.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2161, and ENG 2162.*

*Spring, odd years*

### **ENG 3220 - World Fiction (L)**

**3 cr** This genre course investigates world fiction, asking how important writers have received and transformed fiction as art-and as a means of doing new kinds of philosophical and psychological work.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2161, and ENG 2162.*

*Spring, even years*

### **ENG 3230 - Asian Literature**

**3 cr** Students will read representative texts, both ancient and modern, from the literature of India, China, Japan, and the Islamic world, texts such as Valmiki's Ramayana, the poetry of Po Chui, Murasaki Shikibu's The Tale of Genji, and the short stories of R. K. Narayan, Lu Xun, and Naguib Mahfouz.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310.*

*Spring, even years*

### **ENG 3260 - Western Mythology (L)**

**3 cr** This course is an intensive study of predominantly Western myths: as tales, as narrative cosmologies and archetypes, as the contexts for later literature, as re-visioned in contemporary culture. Primary emphasis is on the ancient myths of Greek and Scandinavian-Germanic cultures, with some consideration given to myth's prehistoric base; a representative sampling of myths from around the world, as well as the Bible, is also included.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310.*

*Spring*

### **ENG 3280 - The Bible (L)**

**3 cr** A detailed consideration of the King James version, a work which continues to have tremendous influence on English and American literature. Genres studied include drama, lyric poetry, short story, and essay. Students are also introduced to other noteworthy translations.

*Prerequisite: Highly recommended: ENG 1310.*

*Periodically*

### **ENG 3290 - Studies in World Literature (L)**



**3 cr** Topics for this course may include literature from an historical period, a major author, or a theme or genre in world literature. The specific subject of the course will be announced at registration.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Fall, even years*

### **ENG 3310 - Dante (L)**

**3 cr** A consideration of The New Life and The Divine Comedy in the context of European civilization in the late Middle Ages. This course attends to Dante's text and its impossible project: to explain divine justice, and so repair a broken world.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2161, and ENG 2162.*

*Spring, odd years*

### **ENG 3360 - Shakespeare Comedies and Histories (L)**

**3 cr** This examination of Shakespeare's early plays attends to his development as playwright and poet, the nature and growth of his comic vision, and the relationship of the plays to his age and ours.

*Prerequisite: Highly recommended: ENG 1310.*

*Fall, odd years*

### **ENG 3370 - Shakespeare Tragedies And Late Comedies (L)**

**3 cr** The major tragedies are viewed with special attention to the characterization, the nature, and the growth of Shakespeare's tragic vision; and to the increasing sophistication of his dramatic poetry. The late comedies are viewed as growing out of and complementing the vision of the tragedies.

*Prerequisite: Highly recommended: ENG 1310.*

*Spring, even years*

### **ENG 3520 - American Poetry (L)**

**3 cr** So that students understand the distinctive attributes and achievements of American poetry, this course studies the abiding and evolving characteristics of poetry in general; the English and European influences on American poetry; but especially the development of American poetry itself by way of form and function, in particular the influences on, and of, modern American poetry. Reading includes poetry that represents such development from the nineteenth century to the present.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2311, and ENG 2312.*

*Spring, even years*

### **ENG 3530 - American Novel (L)**

**3 cr** So that students understand the distinctive attributes and achievements of the American novel, this course studies the abiding and evolving characteristics of the novel in general; the profound differences between the nineteenth century American and English novel; but especially the development of the American novel itself, with significant investigation of Romantic and modern forms and purposes. Reading includes novels that represent such development from the nineteenth century to the present.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2311, and ENG 2312.*

*Spring, odd years*

### **ENG 3550 - American Short Fiction (L)**

**3 cr** With the American short story and novella as its subject, this course studies short fiction by way of the literary conventions that define, sustain, and transform it; by way of the distinctions to be drawn between short fiction and the novel; but predominantly by way of the formal and philosophical development of American short fiction itself, with particular attention paid its modern and contemporary significance. Reading includes short fiction that represents such development from the nineteenth century to the present.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2311, and ENG 2312.*

*Fall, odd years*

### **ENG 3560 - American Drama (L)**

**3 cr** This course studies drama by way of the literary conventions that define, sustain, and transform it; by way of the English and European influences on American drama; but predominantly by way of the formal and philosophical development of American drama itself, with particular attention paid its modern and contemporary significance. Reading includes drama that represents such development from the nineteenth century to the present.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2311, and ENG 2312.*

*Fall, even years*

### **ENG 3570 - American Literary Movements (L)**

**3 cr** This course examines American literature by the study of one significant literary movement: transcendentalism, for example, or naturalism; imagism or the Harlem Renaissance. Students investigate the causes of that literary movement, the writers and works by which that movement achieved significance, the principles that have come to stand for that movement, and the effects of that movement on the larger unfolding of American literature.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2311, and ENG 2312.*

*Spring, odd years*

### **ENG 3580 - African American Literature (L)**

**3 cr** Students survey prominent African American literature from the eighteenth century to the present. The relationship between vernacular literature-the blues, gospel, jazz, the sermon-and the formal African American literary tradition is examined. Students also consider the relationship between African American literature and the more general category of American literature.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2311, and ENG 2312.*

*Fall, even years*

### **ENG 3600 - American Literary Careers (L)**

**3 cr** This course examines American literature by the study of one significant American writer's literary career. Students investigate the relationship between that writer's life and literary production; the critical reception of that literary production over time; and that writer's effect on the larger unfolding of American literature. This course might on occasion examine two significant writers for insights about American literature that reveal themselves only upon studying one literary career by another.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310, ENG 2311, and ENG 2312.*

*Spring, even years*

## **ENG 3610 - Women Writers (L)**

**3 cr** This course examines American and world literature written by women, including such genres as the novel, biography, autobiography, poetry, and the essay. The course also investigates images of women as well as the intersection of genre, gender, race, socioeconomic class, and historical period.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310.*

*Fall, odd years*

## **ENG 3620 - Overview Of Children's Literature (L)**

**3 cr** A comprehensive overview of children's literature, its history and genres, the issues and approaches it has generated, and strategies for using it in the classroom. Strongly recommended for elementary education majors.

*Prerequisite: Highly recommended: ENG 1310, ENG 2411, and ENG 2412.*

*Fall, even years*

## **ENG 3630 - Poetry for Children (L)**

**3 cr** This course examines the ways in which poetry and its elements of diction, imagery, rhythm, and rhyme serve to develop and enhance the child's language skills, literary appreciation, imaginative and creative expression. Mother Goose, R. L. Stevenson, William Blake, W. De LaMare, Randall Jarrell, and Shel Silverstein are some of the poets considered.

*Prerequisite: Highly recommended: ENG 1310, ENG 2411, and ENG 2412.*

*Spring, odd years*

## **ENG 3640 - Images of the Child in Literature (L)**

**3 cr** Children have been a recognized minority, both idealized and segregated, for at least two centuries. This course investigates classic portrayals of childhood in English and American literature for both children and adults.

*Prerequisite: Highly recommended: ENG 1310, ENG 2411, and ENG 2412.*

*Fall, odd years*

## **ENG 3650 - Art of Children's Book Illustration (L)**

**3 cr** An in-depth treatment of the picture storybook, from Beatrix Potter to contemporaries such as Arnold Lobel and Maurice Sendak. Primary concerns include format, the complementarity of picture and print, the meanings communicated through this "picture language," and the image as a visual text read by the child.

*Prerequisite: Highly recommended: ENG 1310, ENG 2411, and ENG 2412.*

*Spring, even years*

## **ENG 3660 - Folk Tales (L)**

**3 cr** Folk tales constitute "the bare bones of narrative"; this course examines that narrative's oral, literary, cultural, folkloric, historical, psychological, archetypal, and philosophical components, as well as tale variants—from different cultures or as adapted to other literary genres such as the short story and poetry. Both world tales and "Household Tales" of the Brothers Grimm are studied.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: Highly recommended: ENG 1310.*

*Fall*

## **ENG 3690 - The English Language: Grammar**

**3 cr** Designed to investigate the systematic nature of English grammar, this course draws from both structural and transformational linguistics. It analyzes sentence structure—how to identify, expand, and transform the basic sentence patterns; it studies the assorted forms and functions of words, phrases, and clauses; and it examines the relationship between grammar and rhetoric, particularly by way of cohesion, rhythm, emphasis, and punctuation. This course also considers the evolution of English grammar.

*Prerequisite: ENG 1061. Highly recommended: ENG 2010.*

*Fall*

## **ENG 3720 - Special Topics In Children's Literature (L)**

**3 cr** With such possible topics as the fantastic and children's series books, this course offers a variety of subjects from children's literature for further exploration and study. The topic is announced at registration. Students may take this course more than once, but only one offering can count as an elective within the concentration.

*Prerequisite: Highly recommended: ENG 1310, ENG 2411, ENG 2412.*

*Spring, even years*

## **ENG 3740 - Special Topics in Literature (L)**

**3 cr** This course enables faculty and students to explore a subject that is treated only briefly, or not at all, in other English courses. The subject of the course is announced at registration. Students may take this course several times, but they may use it only once to meet an elective within a concentration.

*Prerequisite: Highly recommended: ENG 1310.*

*Periodically*

## **ENG 3750 - Special Topics in Writing**

**3 cr** This course enables faculty and students to explore diverse topics in the art and craft of writing, including writing and style, advanced argumentation, and advanced poetry writing. The content of the course is announced at registration. Students may take the course more than once, and additional credits may be applied toward completion of the writing minor when course content is substantially different.

*Prerequisite: ENG 1061. Highly recommended: at least one WI course.*

*Fall*

## **ENG 3810 - Internship in English**

**1-12 cr** See section on Individualized Educational Experiences. Permission of department chair required. Open to junior Literature and Communication majors only. *Signed contract required at time of registration.*

## **ENG 3900 - Independent Foreign Study**

**Credits to be arranged.** Registration by permission of department chair only.

*Signed contract required at time of registration.*

## **ENG 4040 - Advanced Creative Writing**

**3 cr** An advanced course in writing original poetry, short stories, or creative non-fiction, this offering is intended for students with a demonstrated competency in writing, as well as a knowledge of basic elements of literature. Interested students must submit a writing sample to the instructor.

*Prerequisite: At least junior standing and permission of instructor.  
Periodically, Spring 2015*

### **ENG 4140 - Approaches to Literature (L)**

**3 cr** This senior seminar studies the variety of critical approaches by which accomplished readers interpret, appraise, and appreciate fiction, poetry, and drama. Not only do students consider the nature and purpose of literary criticism, but they also analyze and apply the principles that define such approaches as formalism, historicism, reader-response criticism, mimeticism, and intertextualism.

*Prerequisite: ENG 1310  
Fall*

### **ENG 4720 - Seminar in Literature (L)**

**3 cr** Depth rather than scope governs the selection of topics for this upper-level seminar. The subject is announced at registration.

*Prerequisite: Highly recommended: ENG 1310.  
Periodically*

### **ENG 4810 - Internship in English**

**1-12 cr** See section on Individualized Educational Experiences. Permission of department chair required. Open to senior Literature and Communication majors only. *Signed contract required at time of registration.*

### **ENG 4900 - Independent Study**

**1-3 cr** Juniors and seniors do independent and substantial scholarly or creative work. They should decide upon the goals, scope, and method of their project with a cooperating instructor. They must then have their project approved in writing by both the instructor and the department chair before registering for this course. *Signed contract required at time of registration.*

### **ENG 4930 - Honors Thesis**

**3 cr** Candidates for Honors in Literature produce an honors thesis or equivalent with guidance from a department honor's committee.

*Prerequisite: Students who enroll must first be candidates for Honors in Literature.*

## **Environmental Studies**

*Other relevant courses may be found under Biology, Chemistry, Economics, Geography, Global Studies, History, and Political Science.*

### **ENV 1210 - Environmental Harm and Mitigation Strategies**

**3 cr** This course examines the problems in the interactions between human society and our natural environment. It is an introductory exploration of the pressures and correctives which our society places on all our life-sustaining ecosystems, while at the same time being utterly dependent on them. We will examine the depth and scope of the problems, the development of protective policies, and the variety of views on how best to proceed, at local, state, national, and global levels. Simultaneously, we will gain some hands-on experience at the local level with our service-learning work with the local community. A full understanding of the scope of environmental harm we are now facing can be very

discouraging, so the course will also focus on the myriad ways, large and small, that we can and already do work to overcome the harm.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Fall, odd years*

### **ENV 2910 - Independent Study**

**1-3 cr** By arrangement with the coordinator of Environmental Studies. Signed contract required at time of registration.

### **ENV 3080 - Globalization and the Environment**

**3 cr** (cross-listed with GEO 3080)

In this course, students consider relationships between the environment and globalization— including economic, political, cultural, and ideological globalization. Environmental problems and possible solutions to those problems are considered. Issues may include, but are not limited to: global climate change, fisheries collapse, “peak oil,” soil erosion and depletion, acid rain, deforestation, groundwater and surface water pollution, estuary health, and ozone depletion.

*Fall, Even Years*

### **ENV 3810 - Internship in Environmental Studies**

**1-12 cr** By arrangement with the coordinator of Environmental Studies. Signed contract required at time of registration.

### **ENV 4910 - Independent Study**

**1-3 cr** A student-faculty contract determines content. Intended for students wishing to study upper-level Environmental Studies content not otherwise available or to carry out research in the field of Environmental Studies. Signed contract required at time of registration. By arrangement with instructor, environmental studies coordinator, and department chair.

## **English Second Language**

### **ESL 3010 - Teaching English as a Second Language in a Cross Cultural Context**

**3 cr** This course is designed for the teaching of English as a second language to limited or non-English speaking immigrants. Participants in this course will examine current policies of public schools in the education of such students, examine appropriate E.S.L. methodologies; identify cultural factors and linguistic points of difficulty for Spanish-speaking and Indo-Chinese learners; and exiting criteria from public school E.S.L. programs. Students seeking certification in Education will find this course particularly useful.

*Periodically*

## **Foreign Language and Literature**

*Other relevant courses may be found under French and Spanish.*

### **FLL 0020 - Foreign Language Teaching Methods**

**3 cr** An examination of past and current foreign language teaching methodologies, e.g. grammar-translation, direct methods, audio-lingual/behaviorist models, total physical response, suggestopedia, cognitive code, etc. Students will be expected to create appropriate instructional materials with attention to culture and the four-skills approach (listening, speaking, reading and writing); and demonstrate knowledge of current methods by direct application in foreign language classrooms with observation and critique by an instructor from the World Languages Program. Required of all Spanish majors seeking education licensure majors. To be taken before student teaching.

*Prerequisite: SPA 2000 level.*

*Spring*

### **FLL 1110 - Film and Lit: Hispanic, French and Italian**

**3 cr** A global reach of literary texts and film in cultural and/or literary translation from the Hispanic, French, or Italian languages and cultures, starting from the late 20th century. Film, novels, short stories, essays, and poetry will be analyzed and discussed. Works will be presented as part of a global consciousness in terms of interrelationships including historical context. They may be selected by theme, genre, topic, and/or special combination that are thought provoking and respond to current interest. Students will be required to do oral presentations and written reports.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Every semester*

### **FLL 3810 - Internship in Foreign Language**

**1-12 cr** *Signed contract required at time of registration.*

### **FLL 3820 - Foreign Language Study Abroad**

**Credits to be arranged** Registration by permission of World Languages program coordinator only. Only students studying in non-English speaking countries are eligible.

### **FLL 3830 - Foreign Culture Study Abroad**

**Credits to be arranged** Registration by permission of World Languages Program Coordinator only.

### **FLL 3910 - Independent Foreign Study**

**Credits to be arranged** Registration by permission of World Languages Program Coordinator only.

## **French**

### **FRE 1010 - French Pronunciation**

**3 cr** Exercises for the improvement of the student's pronunciation and intonation. Open to any student of French although recommended for those who are in at least their second semester.

### **FRE 1111 - French I**

**3 cr** The first course in a two-course sequence. Development of aural comprehension, speaking, reading and writing skills. Three class hours plus one hour supervised lab per week. This may be used to fulfill one general education

requirement.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: ENG 0040/ENG 1010 or equivalent.*

*Fall*

## **FRE 1112 - French II**

**3 cr** *Continuation of FRE 1111.*

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: FRE 1111 or permission of instructor and ENG 0040/ENG 1010 or equivalent.*

*Spring*

## **FRE 2011 - French III**

**3 cr** Systematic and intensive review of first-year university or two years of high school French. Continued study of French grammar. Practice in directed composition. Vocabularies for everyday use. Informal oral and written reports. Three hours class plus two hours supervised lab per week.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: FRE 1112 or two years high school French or permission of instructor.*

*Periodically*

## **FRE 2012 - French IV**

**3 cr** *Continuation of FRE 2011.*

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: FRE 2011 or consent of instructor.*

*Periodically*

## **FRE 2030 - Intermediate French: Introduction to Contemporary Literature**

**3 cr** Selected readings of whole works from contemporary French literature. Written and oral reports.

*Prerequisite: Simultaneous registration in FRE 2012 or permission of instructor.*

*Periodically*

## **FRE 2040 - Intermediate French: Introduction to French Culture**

**3 cr** Reading in a special topic area to introduce students to the French-speaking world. As topics change, this course may be repeated for credit. Reading will include French fairy tales and other appropriate works. This course is especially recommended for elementary education majors.

*Prerequisite: Simultaneous registration in FRE 2012 or permission of instructor.*

*Periodically*

## **Geography**

*Other relevant courses may be found under Economics, Environmental Studies, Geology, Global Studies, History, and Political Science.*

## **GEO 1060 - Fundamentals of Geography**



**3 cr** This course introduces students to the varied and wide-ranging discipline of Geography. Subject matter includes map use, physical geography (atmosphere, hydrosphere, and solid earth), human geography (population, cultural, economic, rural, urban, and political geography), and geographic education, with particular emphasis on national and state standards in geography and social studies.

*This course fulfills the World Views Frame of Reference.*

*Spring*

## **GEO 2020 - World Regional Geography**

**3 cr** In this course, students will consider the locational and regional characteristics of the world's diverse cultures. We will apply a variety of geographical models and perspectives relating to specific regions of the world to better understand the conflicts, commonalities, and general human geographies among world regions and culture groups.

*This course fulfills the World Views Frame of Reference.*

*Every semester*

## **GEO 2040 - Web-Based Mapping and GIS**

**3 cr** This class introduces web-based mapping, Geographic Information Systems (GIS), and related applications as tools for collecting, storing, displaying, and analyzing spatial data. Working both indoors and outdoors, students will use a variety of online programs and applications as they learn how to integrate geospatial technologies into a variety of subject areas.

*Fall*

## **GEO 2150 - Cultural Geography**

**3 cr** This class focuses on the relationships between people and their physical and cultural environments, and on the analysis of the spatial expression of culture throughout the world. Students will study the major subfields of cultural geography, understand those subfields in the contexts of folk, popular, material, and nonmaterial culture, and apply those subfields to local, regional, and world geography using appropriate approaches, methods, and tools.

*This course fulfills the World Views Frame of Reference.*

*Fall*

## **GEO 2210 - Introduction to Geographic Information Systems**

**3 or 4 cr** (also listed as SCI 2210)

This course is designed to introduce students to the basic concepts of modern geographic information systems (GIS). The class will consist of lectures, discussions, readings, demonstrations, and hands-on training exercises using ESRI's ArcView software. This will give students experience in defining spatial problems and solutions, organizing and locating geographic data, manipulating data for display, and map creation and use of a desktop GIS. Students will be expected to use what they have learned to develop a final ArcView project. **This course fulfills the Gen Ed computing requirement at the Bachelor's level.**

*Lab fee \$60.*

*Spring, even years*

## **GEO 2220 - Weather and Climate**

**3 cr** This course offers an interdisciplinary examination of meteorology and climatology. Students will investigate earth-sun relationships, air-mass formation and movement, wind, fronts, severe storms, cloud formation and identification, cyclogenesis and pressure systems, precipitation, global circulation patterns, atmospheric pollution, and global climate change.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.  
Spring*

### **GEO 2910 - Independent Study**

**1-3 cr** Available by arrangement with the instructor and department chair. A student-faculty contract must be executed prior to registration. Signed contract required at time of registration.

### **GEO 3040 - Landscapes of Death**

**3 cr** Landscapes of death, and particularly graveyards and cemeteries, reflect not only evolving cultural attitudes toward death, but also changes and important events in the evolution of cultures. Through cemeteries we can see changes in gender roles, a community's ethnic makeup, technology, and social, moral, and religious values, as well as general trends relating to the physical well-being of the population. In this course, students will study landscapes of death at both local and global scales, and learn how to identify, document, and analyze such landscapes for what they reveal about cultures in general.

*Fall, even years.*

### **GEO 3060 - Baseball and Culture**

**3 cr** This course considers the historical geography of baseball, from its English roots to its development into an international game. Through readings, discussion, and primary research, students will consider topics including: the "Cooperstown myth"- the idea that baseball originated as a rural game during an era of industrialization; the game's urban origins and growth of its popularity during and after the Civil War; the inclusion and exclusion of various groups as a result of race, ethnicity, gender, and "American" values; the evolution of baseball landscapes; the game's symbolic meanings in the context of national identity and global cultures; and the global diffusion of baseball.

*Fall, odd years*

### **GEO 3080 - Globalization and the Environment**

**3 cr** (cross-listed with ENV 3080)

In this course, students consider relationships between the environment and globalization—including economic, political, cultural, and ideological globalization. Environmental problems and possible solutions to those problems are considered. Issues may include, but are not limited to: global climate change, fisheries collapse, "peak oil," soil erosion and depletion, acid rain, deforestation, groundwater and surface water pollution, estuary health, and ozone depletion.

*Spring, even years*

### **GEO 3910 - Independent Study**

**1-3 cr** Available by arrangement with coordinator. Signed contract required at time of registration.

### **GEO 4720 - Field Experience**

**3-15 cr** Supervised field experience in approved settings may be arranged by a written contract between the student, advisor, and Geography coordinator. Students are expected to have adequate preparation in the discipline of Geography.

*Signed contract required at time of registration.*

### **GEO 4910 - Independent Study**

**1-3 cr** Available by arrangement with the instructor and department chair. A student-faculty contract must be executed prior to registration. Signed contract required at time of registration.

## Geology

*Other relevant courses may found under Chemistry, Geography, Physics, and Science.*

### GEY 1010 - Explorations in Geology

**1 cr** These are lecture, lab, or seminar courses on selected, introductory-level topics in geology, especially those of interest to non-science majors. The topic for each course will be announced prior to the semester of offering, and the course may be taken more than once for credit. No more than two credits of GEY 1010 may be used to satisfy the minimum geology requirements for BA.GEY majors.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Periodically*

### GEY 1030 - Dynamic Earth

**4 cr** This is an introductory geology course which examines the geological features of the earth and the processes that operate in the interior and on the surface of the earth which are responsible for their formation. Topics studied include volcanos, earthquakes, mountain building, plate tectonics, glaciers, minerals, rocks, streams and groundwater. Also covered are the techniques and methods geologists use to learn more about the earth.

Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab fee \$50.*

*Fall*

### GEY 1040 - Environmental Geology

**4 cr** Geologic problems involving people, earth resources and the environment will be examined. Topics will include geologic hazards, pollution, global climate change, and earth resources and their associated environmental impact. This course stresses reading comprehension and writing.

Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab fee \$50.*

*Periodically*

### GEY 1050 - The Earth through Time

**4 cr** This is an introductory geology course that examines the evolution of the earth, and the life on the earth, from 4.6 billion years ago to the present. We will develop the foundation necessary to understand the evidence and clues geologists use to interpret earth history.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab fee \$50.*

*Spring, odd years*

### GEY 2010 - Mineralogy

**4 cr** This course includes basic identification of rocks and minerals and microscopic study of minerals. Minerals will be studied in hand specimen and microscopically. Rocks will be studied in hand specimen. The formation of both minerals

and rocks will be covered.

Lecture and lab.

*Prerequisite: GEY 1030 and CHE 1041 or CHE 1051 or consent of instructor.*

*Lab fee \$50.*

*Fall, even years*

## **GEY 2020 - Sedimentology and Stratigraphy**

**4 cr** Interpretation of sedimentary processes and depositional environments through the study of sedimentary rocks and their characteristics is the focus of this course. Identification of siliciclastic and carbonate sedimentary rocks, and recognition of textural features and sedimentary structures, along with vertical and lateral variation in lithology, provides the necessary data to interpret past environments of deposition, and how those environments have changed through time. The physical and chemical processes involved in weathering and diagenesis will be studied.

*Prerequisite: GEY 1030 or GEY 1050, and CHE 1041 or CHE 1051 or consent of instructor.*

*Lab fee \$50.*

*Spring, odd years*

## **GEY 2030 - Field Mapping**

**1 cr** An introductory field mapping course for students considering a geology major, and a prerequisite for summer field camp. This course will be conducted almost entirely outdoors, familiarizing students with geologic structures and stratigraphy in the field and how to map them. Use of the Brunton compass and other tools will be stressed.

*Prerequisite: GEY 1030 or GEY 1050.*

*Fall, even years*

## **GEY 2110 - Energy and Environment**

**4 cr** This course is designed to introduce students to the important topic of energy resources and the environmental consequences of our choice of energy. The course will describe the geologic framework and environmental aspects of fossil fuels (petroleum, coal and natural gas), renewable energy sources (solar, wind, hydro, geothermal), and nuclear fission, as well as energy sources still in development or of controversial value, such as hydrogen fuel, biomass, ethanol, biodiesel, and nuclear fusion. Weekly labs will consist of field trips to power plants and other places that illustrate various types of energy production, as well as laboratory introductions to relevant geologic materials.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Periodically*

## **GEY 2510 - Geology Laboratory Teaching Assistant**

**1 cr** The student will assist the laboratory instructor with lab preparation and clean-up, will assist students in the laboratory, and may be asked to maintain a journal or complete some other form of reflective writing. May be taken more than once for credit.

## **GEY 2810 - Internship in Geology**

**1-12 cr** Signed contract required at time of registration.

## **GEY 2900 - Independent Study**

**1-3 cr** The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. Number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the

semester in which credit is to be earned. Signed contract required at time of registration.

*Prerequisite: At least 16 prior credits in BIO, CHE, GEY, or PHY.*

### **GEY 3010 - Igneous and Metamorphic Petrology**

**4 cr** This course includes understanding the genesis of igneous rocks (intrusive and volcanic) and metamorphic rocks, including plate tectonic settings, mechanisms of magma production and rock metamorphism, and rock and mineral identification.

Lecture and lab.

*Prerequisite: GEY 1030, GEY 2010, CHE 1041 or CHE 1051 , or permission of instructor.*

*Lab fee \$50.*

*Spring, odd years*

### **GEY 3030 - Aqueous Geochemistry**

**3 cr** This course is designed to show the application of chemical principles to the study of geology. Topics covered include aqueous geochemistry, activity-concentration relations, carbonate equilibria, pH-fO<sub>2</sub> diagrams, isotope systems, and the application of geochemistry to solving environmental problems.

*Prerequisite: CHE 1042 or CHE 1052 and GEY 1030.*

*Spring, even years*

### **GEY 3050 - Structural Geology**

**4 cr** The origin and development of structural features of the earth's crust, folding, faulting, volcanism, metamorphism.

Lecture and lab or field experience.

*Prerequisite: GEY 1030 or consent of instructor.*

*Lab fee \$50.*

*Spring, even years*

### **GEY 3110 - Hydrogeology**

**4 cr** This is an applied hydrogeology course with lecture, laboratory and field experience. Course material will include the hydrologic cycle, ground water, wells, water quality/contamination and flow modeling. Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: GEY 1030, GEY 1050 or consent of the instructor.*

*Lab fee \$50.*

*Fall, odd years*

### **GEY 3710 - Topics in Geology**

**1 cr** This course is for advanced geology students interested in learning more about a special topic in geology.

Examples of topics: ore deposits, oceanography, glaciation, and isotope systems in geology. May be repeated for credit.

*Prerequisite: Two GEY courses or consent of instructor.*

*Lab fee \$10.*

*Periodically*

### **GEY 3810 - Internship in Geology**

**1-12 cr** *Signed contract required at time of registration.*

## **GEY 3910 - Independent Study**

**1-3 cr** The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. Number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the Department Chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned.

*Signed contract required at time of registration.*

*Prerequisite: At least 16 prior credits in BIO, CHE, GEY, or PHY.*

## **GEY 4020 - Regional Geology**

**4 cr** Through lecture, lab and extensive field trips, the geology of Vermont, the Appalachians and the regional geology of North America is studied. Eastern and western mountains will be compared.

Lecture and lab.

*Prerequisite: Two courses in Geology.*

*Lab fee \$50.*

*Fall, odd years*

## **GEY 4810 - Internship in Geology**

**1-12 cr** *Signed contract required at time of registration.*

## **GEY 4900 - Independent Study**

**1-3 cr** The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. Number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned.

*Signed contract required at time of registration.*

*Prerequisite: At least 16 prior credits in BIO, CHE, GEY, or PHY.*

## **Global Studies**

*Other relevant courses may be found under Economics, Environmental Studies, Geography, History, and Political Science.*

### **GLB 1010 - Introduction to Global Studies**

**3 cr** This course employs multidisciplinary perspectives to introduce students to concepts, issues, theories and methodologies that assist the student to attain a better understanding of the meaning and significance of the historical and contemporary processes of globalization. Topics covered include: the global economy; global dimensions of environmentalism; international and global institutions; the changing role of the nation state; and the interaction between local, national, regional and global culture and social patterns.

*This course fulfills the World Views Frame of Reference.*

*Fall*

### **GLB 3810 - Cultural Immersion Experience**

**0-2 cr** Study, work, intern, or volunteer abroad for 15 weeks in an approved cultural immersion experience. Not mere tourism, this requires students to make genuine efforts to engage with the society and culture of their host country.

Students work closely with a Cultural Immersion Mentor to plan, carry out, and reflect on their activities abroad to gain meaningful insights that allow them to act knowledgeably and effectively as participants in that country and others. The student is responsible for arranging funding for the semester abroad.

*Prerequisite: Complete the 6 core GLB courses; 6 credits or equivalent in foreign language; 9 credits in the GLB thematic and/or regional concentrations; and a Cultural Immersion Contract (obtained from the Global Studies Coordinator).*

*Every semester*

## **GLB 4610 - Global Studies Capstone Seminar**

**3 cr** This collaborative seminar is required of all students majoring in Global Studies. Students work together, discussing common readings, lectures and films that investigate a variety of concepts and issues to advance their understanding of the globalized world and their place in it. They critically analyze and evaluate the knowledge and perspectives they gained in their Global Studies coursework and cultural immersion abroad. Students then present their unique analysis and synthesis of their global education in a culminating research project. Emphasis is on systematically developing their own complex and mature world view, including their own global career path.

*Prerequisite: GLB 3810.*

*Spring*

## **Health Education**

### **HED 2310 - Health Education Methods**

**3 cr** This course examines comprehensive school health education and the research and theory of health behavior. Course content includes the following: the historical development and philosophy of health education; knowledge of health education concepts and skills delineated in current national and Vermont health education standards, laws and regulations; the impact of societal values, norms and priorities on health education practice; the process of selecting and using current, valid and reliable sources of health information, to include national, state, and local organizations/associations, publications and educational materials/resources; and analyzing research relative to health risks among school-age youth and translating research into recommendations for the design and implementation of health education programs. This course also explores the purposes, components and approaches to coordinating school health initiatives based on the national Coordinated School Health model, including partnerships with families, school staff, and community members to improve health literacy and health behaviors.

*Prerequisite: PED 2420, or permission of the instructor.*

*Spring*

### **HED 3010 - Elementary Health Education Curriculum & Assessment**

**3 cr** This course examines elementary standards-based Health Education curriculum, instruction, and assessment. Students explore the process of planning an effective, age-appropriate school health curriculum that aligns with the Vermont Health Education standards including developmentally appropriate instructional strategies and uses multiple assessment techniques. Students also learn about applying diverse innovative instructional strategies that align with standards-based learner outcomes and performance indicators; implementing skill building strategies to develop competency in health related skills; and selecting, designing and utilizing multiple assessment techniques. The process of Health Education program evaluation is also be discussed.

*Prerequisite: PED 2420, HED 2310 (Health Education Methods), or permission of the Instructor.*

*Fall*

### **HED 3020 - Secondary Health Education Curriculum & Assessment**

**3 cr** This course examines secondary standards-based Health Education curriculum, instruction, and assessment. Students explore the process of planning an effective, age-appropriate school health curriculum that aligns with the Vermont Health Education standards including developmentally appropriate instructional strategies and uses multiple assessment techniques. Students also learn about applying diverse innovative instructional strategies that align with standards-based learner outcomes and performance indicators; implementing skill building strategies to develop competency in health related skills; and selecting, designing and utilizing multiple assessment techniques. The process of Health Education program evaluation is also be discussed

*Prerequisite: PED 2420. HED 2310 (Health Education methods), or permission of the Instructor.*

*Spring*

### **HED 3030 - Health Behavior Theory**

**3 cr** This course examines health behavior theories. Health behavior is the product of individual, interpersonal, community, societal, and cultural influences. Health educators are committed to finding the best ways to improve health behavior outcomes. The use of health behavior theory can guide the search for why people do or do not adopt healthy lifestyles, and be used to predict and improve health outcomes. In this course, you will learn why health behavior theory is a necessary first step in developing health education programs and how to use theory to strengthen health education practices.

*Prerequisite: Sophomore standing*

*Fall*

### **HED 3051 - Community Health Education I**

**3 cr** This course deals with the analysis of principles of program planning in community health education. Topics include: needs assessment, community analysis and organization, program planning and selection, program implementation and coordination, and program evaluation.

*Prerequisite: MAT 2021 and HED 3030 , or permission of instructor*

### **HED 4052 - Community Health Education II**

**3 cr** This course builds off the knowledge base in HED 3051 Community Health Education I. Additional topics include: administration and management of health education programs, serving as a health education resource person, and communication and advocacy for health and health education.

*Prerequisite: HED 3051 with a grade of C or better*

### **HED 4510 - Seminar in Teaching Health Education**

**1 cr** This seminar prepares the student for the student teaching experience, supports the student during the experience, and introduces or reviews competencies associated with the role of the professional educator. Preparation of the teacher licensure portfolio is emphasized.

*Prerequisite: Acceptance to Health Student Teaching*

*Co-requisite: HED 4801 and HED 4802*

*Every semester*

### **HED 4801 - Directed Student Teaching in Health Education I**

**6 cr** This course is an opportunity for the student to teach under the guidance of a qualified cooperating teacher and university supervisor. Students seeking teacher licensure in preK-12 Health Education must apply, qualify, and be admitted to student teaching.

*Prerequisite: Complete all required major courses, meet required GPA standard, departmental recommendation, and professional and related intellectual competencies as stated in written application requirements.*



*Co-requisite: HED 4802 and HED 4510*  
*Every semester*

## **HED 4802 - Directed Student Teaching in Health Education II**

**6 cr** This course is an opportunity for the student to teach under the guidance of a qualified cooperating teacher and university supervisor. Students seeking teacher licensure in K-12 Health Education must apply, qualify, and be admitted to student teaching.

*Prerequisite: Complete all required major courses, meet required GPA standard, departmental recommendation, and professional and related intellectual competencies as stated in written application requirements.*

*Co-requisite: HED 4801 and HED 4510*

## **HED 4810 - Internship in Community Health Education**

**3-12 cr** The Community Health Education internship is designed to be a capstone experience that provides students with an opportunity to utilize their skills and knowledge working in a health education setting. This experience should provide students with an opportunity to utilize their skills and knowledge working in a health education setting. This experience should provide the opportunity to observe, participate with and learn from health professionals working in community-based settings.

*Prerequisite: HED 4052 with a grade of "C" or better and permission of the PED Department Chair*

## **HED 4811 - Elementary Health Education Practicum**

**1-2 cr** Sixty hours (or more) of supervised health education field experience in the elementary (PK-6) setting.

*Prerequisite: HED 3010 - Elementary Health Education Curriculum & Assessment, departmental recommendation, or permission of the instructor.*

*Every semester*

## **HED 4812 - Secondary Health Education Practicum**

**1-2 cr** Sixty hours (or more) of supervised health education field experience in the middle/secondary (7-12) setting.

*Prerequisite: HED 3020 - Secondary Health Education Curriculum & Assessment, departmental recommendation, or permission of the instructor.*

*Every semester*

## **History**

*Other relevant courses may be found under Economics, Environmental Studies, Geography, Global Studies, and Political Science.*

## **HIS 1010 - Roots: Historical Perspectives on Global Problems and Issues**

**3 cr** This course explores the historical roots of current global problems and issues such as terrorism, religious fundamentalism, environmental degradation, species extinction, racism, genocide, global warming, new technology, famine, AIDS, unemployment, war, poverty, disease, and other human rights issues. Both recent and more distant historical factors will be studied in order to understand why these problems exist, how they may be changing, and what an informed citizen can do to help alleviate them. Students will 1) read and discuss a variety of news and other sources of information, interpretations, and commentaries; 2) examine the uses and abuses of historical analysis; and 3) demonstrate, in a culminating individual project, how historical perspective and analysis can suggest causes of, and humane remedies for, a particular global problem or issue. This course will, whenever possible, incorporate service-

learning components in order to help students and faculty meet the goals of the course.

*This course fulfills the World Views Frame of Reference.*

*Every semester*

## **HIS 1125 - The Ancient World**

**3 cr** This course explores continuity, change, connections and comparisons within and between societies that developed in different regions of the world before the rise of Islam in the 7th century. We examine the historical texts and contexts in which humans communicated, complained, dreamed, prayed and made meaning of their lives in worlds that were very different from, and yet surprisingly similar to, our own.

*Fulfills the World Views Frame of Reference.*

*Every semester*

## **HIS 1135 - Global History**

**3 cr** This course introduces students to the discipline of history in general and to the field of global history in particular. It examines the roots and expansion of globalization - broadly defined as the growing interconnectedness of our world - from the rise of Islam to the 21st century.

*Fulfills the World Views Frame of Reference.*

*Every semester*

## **HIS 1215 - Survey of Early U.S. History**

**3 cr** The European colonization of the Americas and the subsequent emergence of the United States held tremendous consequences for the peoples of the modern world. Colonial regimes set in motion a chain of events that destroyed unique Native American cultures, and the demands of merchants and planters in the Americas fueled the African slave trade, one of the largest forced migrations in human history. At the same time, political elites and ordinary people participated in a transatlantic Age of Revolutions that introduced to the world new ways of organizing government and thinking about human rights. Students in this introductory survey course will study these foundations of national life in the United States. The topics to be considered include Native American cultures and colonialism; slavery and its destruction; the role of race and gender relations in American life; and the emergence of liberalism and nationalism in the modern world.

*Fulfills the World Views Frame of Reference.*

*Every semester*

## **HIS 1225 - Survey of Modern U.S. History**

**3 cr** The emergence of the United States as a global power represents one of the most significant developments in recent world history. This introductory survey course will trace America's growing engagement with the world over the course of the long twentieth century. At the same time, the course will consider the development domestically of a modern centralized state that has increasingly concerned itself with the rights and well-being of individual citizens. Topics will include industrialization and its critics, imperialism, the two World Wars, the development of a social safety net, movements for civil rights and social justice for women and minorities, and the origins of America's engagement with the Middle East.

*Fulfills the World Views Frame of Reference.*

*Every semester*

## **HIS 1325 - World History Pedagogy Lab**

**1 cr** Students explore various pedagogical methods and materials for teaching World History to elementary and secondary school students.

*Prerequisite: Must be enrolled in or already have taken HIS 1111 or HIS 1112, or permission of instructor.*  
*Spring*

### **HIS 1326 - U.S. History Pedagogy Lab**

**1 cr** Students explore various pedagogical methods and materials for teaching U.S. History to elementary and secondary school students.

*Prerequisite: Must be enrolled in or already have taken a university-level U.S. History course, or permission of instructor.*

*Fall*

### **HIS 2070 - Vermont History**

**3 cr** Vermont has a long history of interaction between Abenaki and Mohawk, French and English, New England and New York. This course examines economic, political, cultural, and environmental themes in the history of Vermont with a special focus on what makes this region unique.

*Fall*

### **HIS 2210 - History of Women in the U.S.**

**3 cr** This course is a study of women's history. Using the United States as an example, this class will explore the roles that women have played historically and seek to question traditional narratives of history, in which women are often marginalized. What might colonialism, the Revolutionary War, slavery, the Industrial Revolution, the Civil War, the Great Depression or the Civil Rights Movement look like through women's eyes?

*This course satisfies the World Views frame of reference.*

*Spring, odd years*

### **HIS 2255 - Medieval and Early Modern Europe**

**3 cr** This course examines European history from the medieval period through the French Revolution. We survey the major events of this period, such as the Crusades, the Renaissance, the Reformation, the "Age of Exploration," and the Enlightenment, while also paying particular attention to the cultural, intellectual, and social developments that accompanied these events. While this course is primarily concerned with European history, we also consider this history in a global context throughout the semester.

*Fulfills the World Views Frame of Reference.*

*Every Fall*

### **HIS 2260 - Asia in the World**

**3 cr** Contemporary discussions of globalization often lack historical and regional perspective. This course provides just that: an examination of the economic, religious, diplomatic, military and cultural relationships among and between Asians and the rest of the world from ca. 600 to the present time. Focus on India, China, Japan, Vietnam, Indonesia, the Philippines and Pakistan. We will address imperial domination and revolutionary resistance, economic and ethnic nationalism, current dynamics, and the role of historical memory, as in the legacy of World War II.

*Spring*

### **HIS 2285 - Modern Europe**

**3 cr** This course examines European history from the French Revolution to the collapse of the Soviet Union. The class surveys the critical events of the period, including the Industrial Revolution, imperialism, the two world wars, and the Cold War. We focus particularly on the rapid cultural, economic, political, and social transformations of Europe in the

last two centuries, the projection of European power around the world, and the response to European imperialism both inside and outside of Europe.

*Every Spring*

### **HIS 2335 - Asia through Food and Film**

**3 cr** This course uses food and film to teach about cultural experiences of Asians and their historical relationships to the lands and to the peoples they encountered through migration, trade and conquest. Its basic goal will be to stimulate students' thinking and enthusiasm for learning more about Asia, but it also aims to challenge them to consider how culture, environment, economics, and politics intersect in the foods people eat, and how historical change and continuity reflect and reverberate in that intersection. A multisensory understanding of Asian culture and history is gained through readings, films, class lecture and discussion, and cooking and eating a variety of Asian foods. Fees: \$25 for cooking ingredients, restaurant items, and honoraria for guest gourmets to give presentations and cooking demonstrations.

*Fall*

### **HIS 2410 - History and Culture of Latin America**

**3 cr** The pre-Columbian Indian cultures of the New World; the Spanish and Portuguese conquest and colonial empires; the political and cultural divergence that followed independence; the economic and social problems of the Latin American republics and the course of their relations with the United States.

*This course fulfills the World Views Frame of Reference.*

*Spring, odd years*

### **HIS 2431 - African History Before 1885**

**3 cr** An introduction to the richness of African history before its wholesale colonization by Europeans. This course explores societies across the continent, including ancient Egypt, Nubia, Ethiopia, Ghana, Mali, Kongo, Zimbabwe, the Zulu kingdom, and the trading city states of the Swahili coast, as well as smaller stateless societies. We explore the role of long-distance trade in shaping the political, economic, social and cultural history of African societies, including the trans-Saharan, Indian Ocean and transatlantic trade. The course begins with ancient Egypt and ends with the abolition of the transatlantic slave trade, and the beginnings of European colonization.

*This course fulfills the World Views Frame of Reference.*

*Fall*

### **HIS 2432 - African History After 1885**

**3 cr** After 1885, European colonization changed the political map and history of Africa; postcolonial governments continue to struggle with this and other legacies of colonialism, while facing new challenges. Using documentary and feature film, novels, memoirs and scholarly texts, this course provides an introduction to the history of colonial and post-colonial Africa.

*This course fulfills the World Views Frame of Reference.*

*Spring*

### **HIS 2810 - Internship in History**

**3 cr** By arrangement with the coordinator of the history program. See Internships. Signed contract required at time of registration. Variable credit.

### **HIS 2910 - Independent Study**

**3 cr** Provides the exceptionally curious and motivated student the opportunity to explore on an introductory level an aspect of historical study that is not offered by the courses listed in the university catalog. Students need to arrange with an appropriate history faculty member a student-faculty independent study contract prior to registration.

*Every semester*

### **HIS 3130 - The Civil War and Reconstruction**

**3 cr** The Era of the Civil War and Reconstruction represents one of the most important periods in US history. Four million African Americans gained freedom from bondage, 600,000 soldiers perished in the nation's bloodiest war, and the 13th, 14th, and 15th amendments to the constitution redefined the nature of American citizenship. This upper-division course will explore the war and its aftermath by discussing the period's most important themes, reading the work of distinguished authors, and examining documents left by participants. Topics for consideration will include the ebb and flow of military campaigns, the northern and southern home fronts, the politics of war and peace, and the impact of the war on black and white Americans in the North and in the South.

*Spring, odd years*

### **HIS 3210 - Social History of Latin America**

**3 cr** This course is designed to explore various issues in the social history of Latin America. Topics will include race and ethnic relations, labor, gender, rural society, and class as presented in the journal literature, therefore reflecting much of the latest research on these topics.

*Periodically*

### **HIS 3220 - Revolutions in Latin America**

**3 cr** This course examines the role revolutionary violence played in establishing a modern Atlantic world based on the idea of the liberal nation-state. We will take as our guiding assumption that liberation movements in Latin America played a key role in that process, but we will at times consider the critical influence of revolutions in North America and Europe on events in Latin America. We will especially consider the roles of nationalism, Marxism, and anti-colonialism in providing models for revolutionary violence.

*This course fulfills the World Views Frame of Reference.*

*Periodically*

### **HIS 3340 - Europe and the Middle East**

**3 cr** Since ancient times, Europe and the Middle East have had a shared history, a history marked by both conflict and cooperation. This course explores European perceptions of—as well as conflicts and encounters with—the Middle East since the rise of Islam in the seventh century. We examine the political, military, economic, social, and cultural interactions between the two regions as well as the roots of contemporary problems.

*Spring 2017, Spring 2020*

### **HIS 3345 - Masculinities in Modern Europe**

**3 cr** This course examines the many meanings and practices of masculinity in Europe since the French Revolution. Starting with the assumption that ideas about masculinity are culturally constructed, we explore the relationship of masculinities to nationalism, imperialism, work, sexuality, war, politics, and other important elements of modern European history. The role of masculinities in justifying and perpetuating, and at times undermining, systems of power based on race, gender, and sexuality are central to our analysis.

*Fall 2015, Fall 2018*

### **HIS 3365 - The British Empire**

**3 cr** This course will examine the rise and fall of the British Empire, from its origins in Ireland to its decline and (with a few exceptions) fall in the twentieth century. Topics covered include migration, slavery, commerce and trade, anti-colonial nationalism, and ideas of race and gender.

*Spring 2016, Spring 2019*

### **HIS 3450 - Women in European History**

**3 cr** A study of the changing role of women in European history is offered from the end of antiquity to the 20th century. Topics include women in public and private life, the economic and legal position of women, and the changing role of women in society.

*This course fulfills the World Views Frame of Reference.*

*Fall 2016, Fall 2019*

### **HIS 3465 - Apartheid South Africa**

**3 cr** This course will examine the political history of apartheid (1948-1994). We explore the roots of racial segregation and anti-racist protest from the late 19th century, from the discoveries of diamonds and gold, the South African ("Anglo-Boer") War and the formation of the Union of South Africa (1910). The growth of segregation in the following decades is explored, but the focus of the course is after the imposition of apartheid in 1948. We trace the development of different forms of resistance to mounting state repression. The history of apartheid is examined in three periods: the establishment of apartheid and non-violent defiance politics (1948-1960); the Sharpeville Massacre, massive state repression and the move to armed struggle (1960-1976); "Soweto" and the dismantling of apartheid (1976-1994).

*This course satisfies the World Views frame of reference.*

*Fall, even years*

### **HIS 3470 - Modern African History: Texts in Context**

**3 cr** The history of colonial rule in Africa is often thought of as "what Europe did to Africa". Here we are interested in African perspectives of colonial and post-colonial events and processes. We examine how African writers – of all shades of skin color - have viewed and reviewed their history, under colonial rule and in neo- and postcolonial contexts. After we have established the context of colonial rule, we explore a wide range of literature across the continent, including novels and more formal historical and political critiques. Some of these texts were produced under colonialism, and others were written later. They all reflect in fascinating ways on modern African history, from the inside.

*Spring, even years*

### **HIS 3475 - Women and Gender in African History**

**3 cr** This course examines the changing roles of both women and gender in African history, from precolonial through postcolonial societies. Using case studies from different eras and regions, the course explores political, social and economic change, and includes a discussion of sexualities and of African feminist critiques of western feminism.

*This course fulfills the World Views Frame of Reference.*

*Spring, odd years*

### **HIS 3480 - Special Topics: Africa in Global History**

**3 cr** This seminar explores selected advanced topics, ranging from ancient to contemporary African history. The specific topic and course description will be announced prior to each registration period, but each course will examine both primary and secondary sources and will explore African history in the context of global connections and comparisons. This course may be repeated for credit as topics change.

*This course fulfills the World Views Frame of Reference.  
Fall, odd years*

### **HIS 3510 - Chinese History and Culture**

**3 cr** An introductory survey of Chinese history and culture from early China to today. Topics will include images of China in the West; art, language, literature, and beliefs; the evolution of traditional social roles and identities; the rise of the imperial state and problems of empire; Western imperialism; major movements for reform and revolution; the status of women; the cultural revolution; democracy and the roles of intellectuals and artists; and China's international interests today and over time.

*This course fulfills the World Views Frame of Reference.  
Fall*

### **HIS 3520 - Japanese History and Culture**

**3 cr** An introductory survey of Japanese culture and history from ancient times to today, including the foundations and evolution of the Japanese state; the role of Shinto, Buddhism and other belief systems in society and politics; the significance of Chinese influence; rise of the samurai and the philosophy of bushido; the "floating world" of urban Japanese culture; imperial restoration and problems of empire; WWII and the U.S. occupation; and economic competitiveness and Japan's international interests.

*This course fulfills the World Views Frame of Reference.  
Spring*

### **HIS 3570 - History, Memory and War**

**3 cr** This course focuses on three of America's wars with Asia (World War II in the Pacific; the Korean War, and the Vietnam War), and provides an opportunity for each student to undertake a research project on a war of his or her choosing. The course takes a cultural and comparative approach to history and memory. We examine the public history controversies surrounding the representation and interpretation of wars, and we analyze the social, political, and personal interplay of history, collective memory, and national consciousness by comparing Asian, European, and American experiences.

*Spring 2015, Spring 2018*

### **HIS 3610 - History Proctorship**

**1-3 cr** History proctors assume partial responsibility, under faculty supervision, for the progress of students in a History course. Sample duties include conducting study sessions, preparing handouts, leading discussion groups, and tutoring individual students. May be taken more than once (but no more than 3 credits may count toward the major).

*Prerequisite: junior or senior standing and permission of instructor.*

### **HIS 3720 - Topics in Asian History**

**3 cr** This course introduces Asian history by focusing on topics that reflect current events and student interests. Topics will change from year to year, therefore, and may include, for example, the democracy movement in China; Asia through film and fiction; the cultural revolution and beyond; modern Chinese cultural critique; women in Asia, the body in Asia as a site of culture and history; and the struggle for democracy and economic growth in East Asia. This course may be repeated for credit as topics change.

*Periodically*

### **HIS 3810 - Internship in History**

**3 cr** By arrangement with the coordinator of the history program. See Internships. Signed contract required at time of registration. Variable credit.

### **HIS 3910 - Independent Study**

**3 cr** Provides the exceptionally curious and motivated student the opportunity to explore in greater depth an aspect of a history course already taken. Students need to arrange with an appropriate history faculty member a student-faculty independent study contract prior to registration.

### **HIS 4601 - History Research Seminar**

**3 cr** This course is required of all students majoring in History or Social Studies. It is the first in a sequence of two required courses leading to the History Thesis (see HIS 4602). The goal of the course is to teach students how to approach history from the point of view of a historian, reading texts for historiographical, theoretical and methodological significance. In this class, students learn how to conduct quality research and to develop bibliographic and citation skills. They apply these skills when they identify, locate and analyze secondary and primary sources that lead to a substantial research proposal that will form the basis of the History Thesis.

*Prerequisite: Majoring in History or Social Studies; junior or senior status.*

*Fall*

### **HIS 4602 - History Thesis Seminar**

**3 cr** This capstone seminar is required of all students majoring in History or Social Studies. Building on the research proposal developed in HIS 4601, students will continue to locate, evaluate and interpret the significance of primary and secondary sources pertaining to a particular historical research project. This course is conducted as a seminar, with emphasis placed on working together with the professor and all class members to prepare a culminating project for public presentation to the campus community, and submitted in written form as a History Thesis.

*Prerequisite: HIS 4601*

*Spring*

### **HIS 4910 - Independent Study**

**3 cr** Provides the exceptionally curious and motivated student the opportunity to explore in greater depth any aspect of historical study. The study must culminate in a major research paper based on both primary and secondary sources. Students need to arrange with an appropriate history faculty member a student-faculty independent study contract prior to registration.

## **Honors**

### **HON 1010 - First-Year Honors: Great Ideas in the Castleton Curriculum**

**3 cr** As the first course in the university's Honors program, HON 1010 introduces students to some of the most important ideas in the Castleton curriculum--ideas such as the nature of knowledge, the power of art, the relationship between justice and law, theories of space and time, and the goals of feminism. As they grapple with these issues, students are stimulated to expand the range of subjects in which they are interested and to fashion for themselves an educational program characterized by challenge and exploration.

*Restricted to students in the Honors Scholarship Program.*

*This course fulfills the World Views Frame of Reference.*

*Fall*



## **HON 2010 - Sophomore Honors: Creation & Creativity**

**3 cr** Students in the Honors program commence their education at Castleton with HON 1010, a course that introduces them to "Great Ideas" in the Castleton curriculum. This Sophomore Honors course builds on that theme by delving more deeply into the evolution of human knowledge and the subtlety of creative thought. Different sections of the course are taught from different disciplinary perspectives (e.g. the arts, humanities, social sciences, and/or natural sciences).

*Restricted to students in the Honors Scholarship Program.*

*Fall*

## **HON 2020 - Advanced Honors**

**3 cr** The final course in Castleton's two-year Honors program serves to challenge and stimulate academically-advanced students. Specific topics are announced prior to each semester.

*Restricted to students in the Honors Scholarship Program.*

*Spring*

## **Interdisciplinary Liberal Arts**

### **INT 1051 - First-Year Soundings I: An Introduction to The Liberal Arts, Part I**

**1 cr** The student experiences the richness and vitality of the liberal arts through lectures, plays, recitals, poetry readings, dance performances, and other campus-sponsored cultural and intellectual activities during the year. Students are required to attend a minimum of six events during the semester.

*Requires \$60 course fee.*

*Fall, Spring*

### **INT 1053 - First Year Soundings II, an Introduction to the Liberal Arts, Part II**

**0.5 cr** A continuation of First-Year Soundings I. Students must attend at least four events during the semester. Both First-Year Soundings I and II must be taken during the student's first year at Castleton. Consequently, a student may not drop First-Year Soundings unless, in the judgment of the teachers of Soundings, he or she has a very serious reason such as substantial personal hardship or prolonged illness.

*Fee \$60.*

### **INT 1070 - Foundations of Leadership**

**3 cr** Foundations of Leadership helps students to understand, appreciate and reflect on their position in the communities to which they belong, and to learn to foster change in those communities. The course offers a survey of leadership theory and, more prominently, leadership training in the individual, group, and civic skills necessary to develop as leaders capable of significant civic work. The course approaches leadership through an interdisciplinary problem-based method, organizing our discussions and course activities around the students' development of a community-based, civic-engagement project. Throughout the semester, the students will work in teams to develop projects that will be implemented at the end of the term.

*Fall*

### **INT 2015 - The Collapse of a Civilization**

**4 cr** This interdisciplinary course examines the rise and fall of the Mayan civilization of Central America. We study the environment, history, and science of the Maya, paying particular attention to how they interacted with their natural world. We then travel to the mountains of Belize to explore the setting where the Maya once thrived. Upon our return we process what we have learned with an eye towards understanding contemporary sustainability issues.

*This course fulfills the World Views Frame of Reference.*

*Fee: Dependent on current travel costs; approximately \$2000.*

*Periodically*

### **INT 2030 - Southwest Exploration**

**3 cr** This experiential learning course is designed to encompass the totality of the student learning experiences for the *Semester in the American Southwest*. This learning exploration includes daily experiences of living and learning in the Southwest including classroom instruction related to the required coursework and outside-of-classroom learning experiences including multiple field trips to museums, galleries, pueblos, anthropological sites, camping trips, and explorations in the Southwest.

*Must be taken as part of participation in the Castleton Semester in the Southwest.*

*Periodically*

### **INT 3054 - Junior Soundings**

**0.5 cr** The student experiences the richness and vitality of the liberal arts through lectures, plays, recitals, poetry readings, dance performances, and other campus sponsored cultural and intellectual activities during the year. Students must attend at least three events during the semester. In addition, students will be required to attend an orientation session at the beginning of the semester and write an essay in which they reflect upon their General Education experiences.

*Prerequisite: INT 1051 and INT 1053, and junior standing.*

*Fee \$50.*

### **INT 4740 - New Student Seminar Practicum**

**1 cr** This course provides an opportunity for students to learn techniques for facilitating small group discussions and practice those skills during orientation and FYS (First-Year Seminar) program.

This course is repeatable for credit.

## **Mathematics**

### **MAT 0190 - Mathematics Skills Lab**

**1 cr** Required of all students whose test scores on ACCUPLACER indicate weakness in basic mathematical skills. The operations of arithmetic and elementary algebra are developed through problems and examples. Credit for this course does not count toward diploma requirements.

*Periodically*

### **MAT 1010 - Essential Mathematics**

**2 cr** Mathematical analysis and problem solving based on arithmetic and elementary algebra. The course requirements include writing and problem solving assignments. This course may not be used to fulfill the mathematics core

requirement.

*Prerequisite: Students must take a math assessment (ACCUPLACER) for placement purposes prior to registration.*

### **MAT 1020 - Intermediate Algebra**

**3 cr** This course prepares students for the study of precalculus. A brief review of the fundamentals of algebra, equations and inequalities, exponents, and radicals is conducted. Functions and graphs, systems of equations, and polynomial, rational, and exponential functions are covered in this course. This course may not be used to satisfy the math/science frame.

*Prerequisite: Students must take a math assessment (ACCUPLACER) for placement purposes prior to registration or MAT 1010.*

*Every semester*

### **MAT 1221 - Finite Mathematics**

**3 cr** This is an introductory problem-solving course with applications from biology, behavioral science, social science, business and finance. Students examine coordinate systems and graphs, functions, linear programming, matrices and linear systems, game theory, and probability topics. This course is required for those students who need MAT 1221L (PED LAB).

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: Students must take a math assessment (ACCUPLACER) for placement purposes prior to registration or MAT 1010.*

*Every semester*

### **MAT 1221L - Finite Mathematics Pedagogy Lab**

**1 cr** This course is a study of strategies, techniques, materials, technology, and current research used in the teaching of the concepts of finite mathematics to high school and elementary school students. Students will review the traditional and contemporary standards involved in teaching mathematics at the secondary and elementary school level; develop an awareness of the professional resources, materials, technology and information available for teachers; prepare unit and lesson plans with related assessment procedures on a variety of topics; and acquire teaching experience by taking part in individual tutoring, observation at a local school, and/or presenting lessons at the appropriate level.

*Prerequisite: Math Ed major, MAT 1221 or concurrent enrollment.*

*Every semester*

### **MAT 1320 - Precalculus**

**3 cr** This course is designed to prepare students for the study of calculus. Emphasis is placed on the study of functions. Functions are explored from numerical, graphical, and analytic perspectives including the study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Students utilize technology (graphing calculators and/or the internet) on a regular basis.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: Students must take a math assessment (ACCUPLACER) for placement purposes prior to registration or MAT 1010.*

*Every semester*

### **MAT 1350 - Statistics and Health**

**3 cr** The content in this core course builds on the subject matter from Healthcare Research, Healthcare Literature, and Evidence Based Practice. The focus of this course will be on the development of statistical reasoning and practice analyzing actual data that will expose nursing students to basic calculations of descriptive and inferential statistics

using statistical software such as SPSS, Minitab, or R language, these technological and statistical skills are needed to interpret scientific studies and understand the scientific method. Students will also acquire the knowledge and technological skills needed to manipulate quantitative data and use nonparametric and parametric statistics to answer research questions and test hypotheses.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Fall*

## **MAT 1531 - Calculus I**

**4 cr** Topics include limits, differentiation, applications of derivatives, and an introduction to integration. This course may utilize graphing calculators on a regular basis.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: MAT 1320 or equivalent.*

*Every semester*

## **MAT 2021 - Statistics I**

**3 cr** This course prepares students for quantitative methods in their respective fields. Descriptive and inferential statistics, including estimation, hypothesis testing, linear regression and correlation are covered. Basic tools of descriptive statistics, discrete probability, binomial distribution, normal distribution, t-distribution, estimates and sample sizes, hypothesis testing, elementary correlation and regression, contingency tables are explored. Students utilize graphing calculators and spreadsheet software on a regular basis.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: Students must take a math assessment (ACCUPLACER) for placement purposes prior to registration or MAT 1010.*

*Every semester*

## **MAT 2021L - Statistics Pedagogy Lab**

**1 cr** This course is a study of strategies, techniques, materials, technology, and current research used in the teaching of statistics to high school and elementary school students. Students will review the traditional and contemporary standards involved in teaching mathematics at the secondary and elementary school level; develop an awareness of the professional resources, materials, technology and information available for teachers; prepare unit and lesson plans with related assessment procedures on a variety of topics; and acquire teaching experience by taking part in individual tutoring, observation at a local school, and/or presenting lessons at the appropriate level.

*Prerequisite: Math Ed major, MAT 2021 or concurrent enrollment.*

## **MAT 2022 - Statistics II**

**3 cr** This course is a continuation of MAT 2021 and includes estimation, hypothesis testing, single linear regression, and one-way analysis of variance using calculators and statistical software. This course addresses in-depth such topics as the Central Limit Theorem, Chebyshev's theorem, covariance, multiple regression, ANOVA, nonparametric methods, and applications of probability distributions. It includes problems dealing with multiple linear regression, multi-way analysis of variance, nonparametric statistics, enumerative data, and computer applications. Students utilize graphing calculators and spreadsheet software on a regular basis.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: MAT 2021*

*Every semester*

## **MAT 2036 - Biostatistics**

**4 cr** This course introduces statistical concepts and analytical methods as applied to data encountered in ecological, environmental, and biomedical sciences. It emphasizes the basic concepts of experimental design, quantitative analysis of data, and statistical inferences. Topics include probability theory and distributions; population parameters and their sample estimates; descriptive statistics for central tendency and dispersion; hypothesis testing and confidence intervals for means, variances, and proportions; the chi-square statistic; categorical data analysis; linear correlation and regression model; analysis of variance; and nonparametric methods. The course provides students a foundation to evaluate information critically to support research objectives and product claims and a better understanding of statistical design of experimental trials for biological products/devices.

*Students will be required to have a scientific calculator.*

*Prerequisite:*

*Minimum math placement of MAT 1320 or MAT 2021 .*

## **MAT 2532 - Calculus II**

**4 cr** Continuation of Calculus I, with topics to include techniques of integration, applications of integration, improper integrals, sequences, series, and Taylor polynomials. Students in this course may be required to utilize graphing calculators.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: MAT 1531*

*Every semester*

## **MAT 2533 - Calculus III**

**4 cr** Continuation of Calculus II, with topics including polar, spherical and cylindrical coordinates, partial derivatives, multiple integrals and vector calculus such as line integrals, surface integrals, and Gauss's, Green's, and Stoke's Theorems. Students in this course may be required to utilize graphing calculators.

*Prerequisite: MAT 2532.*

*Fall*

## **MAT 2550 - Mathematics: A Cultural Perspective**

**3 cr** This course studies the development of various branches of mathematics from ancient times to the present, and investigates historical and multicultural influences on the development of mathematics, to include non-Western cultures. While mathematics in present-day Western society is usually associated with science and technical fields, mathematical ideas in other cultural groups develop through storytelling and myth, art, music, philosophy, or the structure of marriage rules. This course provides an introduction to mathematics that affects political, sociological and economic situations in modern society. Topics such as voting systems; fairness conditions; power indices; fair division methods and their applications; apportionment methods; Euler and Hamilton circuits and their applications; networks; scheduling; and elementary game theory may be included. Students conduct research and present their findings as written reports and oral presentations.

*This course fulfills the World Views or the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: MAT 1020 or consent of instructor.*

*Spring*

## **MAT 2810 - Internship in Mathematics**

**1-12 cr** *Signed contract required at time of registration.*

## **MAT 2900 - Independent Study**

**1-3 cr** Open on a limited basis. A personal interview with the Mathematics Department faculty is required prior to registration.

Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

## **MAT 3020 - Mathematics for Elementary Teachers**

**4 cr** This course will focus on achieving goals set forth in Vermont's Framework of Standards and Learning Opportunities and the Standards of the National Council of Teachers of Mathematics (NCTM), while strengthening the mathematical knowledge of the prospective elementary school teacher. Students will be given numerous opportunities to discover and construct important mathematical concepts and techniques using a variety of student-centered learning strategies, including the use of manipulative devices, graphing calculators, computers, Internet, portfolio and journal assessment, and Video Vignettes.

*Every semester*

## **MAT 3035 - Teaching Mathematics I**

**3 cr** This course is a study of strategies, techniques, materials, technology, and current research used in the teaching of mathematical concepts to elementary and high school students. Students will review the traditional and contemporary standards involved in teaching mathematics at the elementary to secondary school level; develop an awareness of the professional resources, materials, technology and information available for teachers; prepare unit and lesson plans with related assessment procedures on a variety of topics; and acquire teaching experience by taking part in individual tutoring, observation at a school, and/or presenting lessons at the appropriate level. This course fulfills three pedagogy lab credits in secondary mathematics and may be taken as an elective for MDS majors.

*Prerequisite: Math Ed or MDS major, junior or senior status.*

*Fall*

## **MAT 3210 - Linear Algebra**

**3 cr** This course introduces students to linear algebra including a study of vector spaces, linear transformations, determinants, inner products, and characteristic equations. Topics to be studied include mathematical structures, algebraic properties, and applications of matrices, determinants, vectors, vector spaces, and linear transformations. Students develop and solve mathematical models involving systems of linear algebraic equations and systems of linear differential equations. Students utilize graphing calculators and a computer algebra system.

*Prerequisite: MAT 2532.*

*Spring*

## **MAT 3220 - Probability**

**3 cr** This is a calculus-based course introducing probability theory including discrete and continuous random variables and their probability distributions, multivariate probability distributions, functions of random variables, and limit theorems.

*Prerequisite: MAT 2021, MAT 2532, MAT 2533*

*Fall*

## **MAT 3230 - Mathematical Statistics**

**3 cr** This calculus-based course is a continuation of *MAT 3220* including estimation theory, hypothesis testing, analysis of enumerative data, regression, analysis of variance, and nonparametric statistics.

*Prerequisite: MAT 3220.*

*Spring*

### **MAT 3250 - Applied Statistics**

**3 cr** Methods of analyzing univariate and multivariate data using statistical packages including Minitab, SPSS, and SAS. Topics include descriptive statistics for univariate and bivariate data, basic properties of multivariate distributions, multivariate linear regression, principal component analysis for dimension reduction, factor analysis, canonical correlation analysis, discrimination and classification, and simple multiple series models.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Prerequisite: MAT 2022 or MAT 3230.*

*Every Semester*

### **MAT 3310 - Differential Equations**

**3 cr** This course is a study of first and higher order differential equations with many applications to science. Students explore analytical and numerical solution methods for ordinary and partial differential equations including series solutions and special functions for the solution of ODEs and the use of Fourier series to solve PDEs. Laplace transforms and numerical methods for solving ODEs and PDEs are introduced.

*Prerequisite: MAT 2532 and MAT 3210.*

*Spring*

### **MAT 3410 - Foundations of Mathematics**

**3 cr** This course is an introduction to mathematical proof and serves as a bridge from elementary courses to more advanced mathematics. Students explore fundamental ideas in logic, sets, the theory of numbers, relations and functions.

*Prerequisite: MAT 1531*

*Fall*

### **MAT 3810 - Internship in Mathematics**

**1-12 cr** *Signed contract required at time of registration.*

### **MAT 3820 - Mathematics Tutorship**

**1-3 cr** A supervised experience in individual instruction. To include reading and discussion of individualized instructional systems as well as an actual tutorial experience in MAT 0190 or in a 1000's or 2000's level Mathematics course.

*Prerequisite: Invitation of the Mathematics Department.*

### **MAT 3900 - Independent Study**

**1-3 cr** Open on a limited basis. A personal interview with the Mathematics Department faculty is required prior to registration.

Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

## **MAT 3910 - Independent Foreign Study in Mathematics**

**Credits to be arranged.** Registration by permission of department chair only.  
*Signed contract required at time of registration.*

## **MAT 4010 - Design of Experiments**

**3 cr** Analysis of Variance techniques, basic experimental designs, complete and incomplete blocking, and factorial designs.

*Prerequisite: MAT 2022 or MAT 3230. Marketing Majors should elect this course after BUS 4030.*  
*Periodically*

## **MAT 4020 - Applied Linear Regression**

**3 cr** Linear and multiple regression models. Least squares estimates, correlation, and prediction. Discriminate analysis, factor analysis, and cluster analysis.

*Prerequisite: MAT 1531, MAT 3250.*  
*Periodically*

## **MAT 4035 - Teaching Mathematics II**

**3 cr** A continuation of MAT 3035 Teaching Mathematics I, this course concentrates on in-depth mathematics instruction, multiple assessment techniques, past and present mathematics standards preparing students to become elementary and secondary mathematics instructors. A strong emphasis is placed on the appropriate usage of technology in mathematics instruction. Students shall construct, revise, and execute lesson and unit plans in mathematics. This course fulfills three pedagogy lab credits in secondary mathematics and may be taken as an elective by MDS majors.

*Prerequisite: MAT 3035 or consent of the instructor*  
*Spring*

## **MAT 4110 - Advanced Calculus**

**3 cr** This course is devoted to rigorous presentation of the basics of mathematical analysis of real valued functions of one (real) variable from the standpoint of contemporary/modern mathematics. It is a natural continuation of the sequence of calculus courses and will give proofs of important theorems used in those courses. Emphasis will be on the concepts and theoretical approach to calculus. Topics to be covered include theory of the real number system, theory of sequences and series of real numbers, theory of continuity, differentiability of real-valued functions, and theory of the Riemann integral of real valued functions.

*Prerequisite: MAT 2533 and MAT 3410.*  
*Fall*

## **MAT 4120 - Numerical Analysis**

**3 cr** Numerical computation techniques for solving non-linear and transcendental equations including Newton's method, bisection method, and secant method. Numerical solutions to polynomials, including synthetic division. Numerical interpolation, approximation, integration, and numerical solutions to ordinary differential equations.

*Prerequisite: MAT 3210, MAT 3310 or consent of instructor.*  
*Periodically Offered on a limited basis in consultation with the department chair*

## **MAT 4130 - Abstract Algebra**



**3 cr** This course is an introduction to the principles and concepts of modern abstract algebra. Topics will include groups, rings, and fields with applications to number theory, the theory of equations, and geometry.

*Prerequisite: MAT 2533, MAT 3210 and MAT 3410, or consent of instructor.*

*Spring*

### **MAT 4140 - Geometry**

**3 cr** This course includes a review of Euclidean geometry and an introduction to non-Euclidean geometries including finite geometries and systems of axioms, classical theorems and elementary transformations.

*Prerequisite: MAT 3410 .*

*Spring*

### **MAT 4210 - Teachers as Researchers**

**2 cr** This course is intended for pre-service teachers who are seeking to increase their understanding of mathematics. The course uses data collection and analysis to guide improvement in K-6 mathematics programs. The student will build on the knowledge gained in MAT 3020 to obtain a deeper understanding of mathematics as related to NCTM and the Vermont Framework guidelines. In this course, students will function as researchers by gathering data and analyzing data, as means of improving the curriculum and instruction in K-6 mathematics programs. As researchers, students are encouraged to ask questions, pose problems, and identify means of solving problems by using different strategies. Emphasis will be on student-centered instructional approach, with ample use of manipulatives and technology.

*Prerequisite: MAT 3020 or consent of instructor.*

### **MAT 4710 - Topics in Mathematics**

**1-3 cr** Advanced topics in mathematics offered on a rotating basis. Examples of topics include: complex analysis, topology, Galois theory, number theory.

*Prerequisite: MAT 2533, MAT 3410, or consent of the instructor.*

*Fall*

### **MAT 4720 - Senior Seminar**

**3 cr** An undergraduate research seminar. Students spend the first half of the semester studying and presenting undergraduate research in mathematics. In the second half, students investigate their own topic, prepare a written report, and present their research.

*Prerequisite: Math major, senior standing, or consent of the instructor.*

*Fall*

### **MAT 4810 - Internship in Mathematics**

**1-12 cr** Signed contract required at time of registration.

### **MAT 4900 - Independent Study**

**1-3 cr** Open on a limited basis only and ordinarily restricted to students with upper-level standing. A personal interview with the Mathematics Department faculty is required prior to registration. NOTE: Computer related courses require payment of a materials charge.

Hours by arrangement.

*Prerequisite: Consent of department chair.*

# Music

## MUS 1010 - Music Appreciation

**3 cr** A course in music listening. An overview of various styles, genres, historical periods, and cultures. Through guided listening and reading, students become familiar with the elements of music and develop an appropriate vocabulary for describing and discussing music.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Fee \$20.00*

*Every Semester*

## MUS 1020 - Concerts from Castleton

**3 cr** A traveling music appreciation course that takes advantage of Castleton's proximity to first-class summer music festivals. Seminars/lectures are held before and after each performance for the purpose of introducing the music and sharing reactions. Each student writes a review of each concert, and class meeting times may vary to accommodate the concert schedule.

*Fee for tickets and transportation.*

## MUS 1030 - Music Fundamentals

**3 cr** An introductory course designed to develop skills in note reading and an understanding of such elements as key signatures, chord construction, and intervals. Much in-class time is spent performing.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Fee \$20.*

*Every semester*

## MUS 1040 - String Ensemble

**1 cr** An ensemble for all varieties of stringed instruments. Many different styles of music are performed. Members who are interested will be encouraged to make musical arrangements for the group.

*Prerequisite: Some ability to read music.*

*Every semester*

## MUS 1041 - Class Piano I

**2 cr** The student is introduced to the basic elements of playing the piano. Note reading and improvisation are studied through traditional melodies and simple chord accompaniments. Music majors may test out of this course.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Fee \$ 10.*

*Every semester*

## MUS 1042 - Class Piano II

**2 cr** Playing simple melodies in all keys, with more elaborate improvised accompaniments; playing simple piano pieces. Course is also designed to develop the student's ability to sight-read a four part hymn.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: MUS 1041 or consent of instructor. Music majors may test out of this course.*

*Fee \$10.*

*Spring*

### **MUS 1080 - Global Music**

**3 cr** This course is a study of the world's musical cultures. The course is designed for music, music education, and non-music majors looking to develop an understanding of music in our global era.

*This course fulfills an Aesthetic Understanding or Social and Behavioral Understanding Frame of Reference.*

*Fee \$20.*

*Every Semester*

### **MUS 1090 - Foundations of Music Education**

**3 cr** Students will receive an overview of the history of music education both globally and nationally, the leading music learning theorists, and explore issues specific to music education including music assessment, classroom management in an ensemble setting, multiculturalism in music, and music advocacy.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Spring*

### **MUS 1091 - Sight Singing and Ear Training I**

**1 cr** Students develop skills in the recognition and singing of basic pitch and rhythm materials, and the realization of these materials in standard music notation.

*Prerequisite: Permission of instructor.*

*Fee \$10.*

*Fall*

### **MUS 1092 - Sight Singing and Ear Training II**

**1 cr** Further development of skills in the recognition and singing of basic pitch and rhythm materials, and the realization of these materials in standard music notation.

*Prerequisite: MUS 1091 or consent of instructor.*

*Fee \$10.*

*Spring*

### **MUS 1115 - Musical Pit/Vocal**

**0-1 cr** This is a performance/participation course in the spring musical theater production. This course is a requirement each spring semester for students in the Musical Theater concentration. Concurrent participation in the musical onstage or in the pit is required. Participation in the musical is determined by audition at the end of the fall semester; participation in the pit is determined by permission of instructor.

*Prerequisite: Permission of instructor*

*Spring*

### **MUS 1120L - Performance Lab**

**0 cr** This is a performance lab extension for all levels and sections of applied music lessons. The performance lab is designed to help students develop solo and small ensemble performance skills leading up to the end of the semester jury and final senior recital. The performance lab also gives students the opportunity to share their music with one another and to offer a community supporting the technical growth of the individual performing musician.

BA.MUS and BM.EDU majors, minors, or permission of instructor.

*Pass/No Pass only*  
*Every semester*

## **MUS 1210 - Chorus: University Chorale**

**0-1 cr** As one of Castleton's oldest traditions, the University Chorale is comprised of music majors, minors, and non-majors, bringing a wealth of diversity and energy to the ensemble. Chorale activities include concerts each semester at Castleton, choir retreats, a regional tour in the spring, and an international tour with other department ensembles every four years. The Chorale performs a wide repertoire from different eras and cultures, and combines with community instrumentalists to perform works of a larger scale. The University Chorale has done performances and workshops with noted artists including Francois Clemmons, Esau Pritchett, and Robert DeCormier. A voice placement is required for entrance. May be repeated for credit.

*Fee \$ 50.*

*Every Semester*

## **MUS 1211 - Vocal Technique in the Choral Ensemble**

**0-1 cr** This course is designed for students who would like to improve their vocal skills in a small group setting and receive extra help learning choral repertoire. Students will explore and develop fundamentals of vocal technique, from breathing to tone production, and apply these skills to choral repertoire appropriate for university, community, and church choirs. With instructor permission, Music Education majors with strong skills may take the course as mentors and teaching assistants.

## **MUS 1220 - Wind Ensemble**

**0-1 cr** The Castleton University Wind Ensemble is one of the major performing ensembles on campus. The Wind Ensemble performs works in the traditional wind band repertoire as well as contemporary works of various styles. The ensemble is open to all instrumentalists at the university and select community members with a placement audition required at the beginning of the fall semester. The Wind Ensemble performs at fall commencement, spring concerts, and at local schools. May be repeated for credit. Variable credit.

*This one credit course counts towards the Aesthetic Understanding Frame of Reference.*

*Fee \$50.*

*Every semester*

## **MUS 1230 - Jazz Ensemble**

**0-1 cr** The Castleton Jazz Ensemble is a high power big band. The group performs all genres of big band music including Swing, Be-Bop, Rock, Fusion, and Funk. Student arrangements and compositions are often featured. The group is open to all students; instrumentation includes: trumpets, saxophones, trombones and rhythm section (bass, keyboard, guitar and drums). The group performs on and off campus each semester. May be repeated for credit.

*This one credit course counts towards the Aesthetic Understanding Frame of Reference.*

*Fee \$50.*

*Every semester*

## **MUS 1231 - Music Theory I**

**3 cr** The student is introduced to rhythm exercises, harmony (analysis, written, keyboard), elementary composition, and sight singing. Writing and performance (vocal and keyboard) skills are developed throughout the semester. Designed for students who wish to increase their understanding of the materials of music.

*This course counts as an Aesthetic Understanding or Scientific and Mathematical Understanding Frame or Reference.*

*Prerequisite: MUS 1030 or consent of instructor. Music Majors may test out of this course.*

*Fee \$10.*

*Spring*

## **MUS 1232 - Music Theory II**

**3 cr** More advanced exercises in the study of rhythm, harmony (secondary dominants and modulation), sight singing and ear training (harmonic as well as melodic dictation).

*Prerequisite: MUS 1231 or consent of instructor.*

*Fee \$10.*

*Fall*

## **MUS 1240 - Applied Music - Flute**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1250 - Applied Music - Oboe**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1260 - Applied Music - Bassoon**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1270 - Applied Music - Clarinet**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for

credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1280 - Applied Music - Jazz Piano**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform in recitals, and prepare juried examinations and proficiency examinations. This course may be repeated for credit. This course may NOT be added or dropped after the second week of classes.

*Music majors and minors only, see Music Department for enrollment form and consent.*

*Fee \$350*

### **MUS 1310 - Applied Music - Saxophone**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1320 - Applied Music - Trumpet**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1330 - Applied Music - French Horn**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1340 - Applied Music - Trombone**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1350 - Applied Music - Tuba**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1360 - Applied Music - Percussion**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1370 - Applied Music - Violin**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1410 - Applied Music - Viola**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1420 - Applied Music - Cello**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1430 - Applied Music - String Bass**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1440 - Applied Music - Piano**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1460 - Applied Music - Classical Guitar**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

## **MUS 1466 - Applied Music - Electric Guitar**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for



credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1467 - Applied Music - Electric Bass**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1470 - Applied Music - Voice**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1475 - Applied Music - Euphonium**

**1 cr** The purpose of Applied Music is to prepare students for either a performance career, mastery of an instrument in preparation for teaching, or advanced graduate study in music. In addition to the practice and preparation required for weekly lessons, students are required to attend recitals and concerts sponsored by or as designated by the department. Students are required to perform on recitals, prepare juried examinations and proficiency examinations. Reserved for music majors and minors only. NOTE: See music department for enrollment form and consent. May be repeated for credit. Course may NOT be added or dropped after the second week of classes.

*Fee \$350 per credit.*

*Every semester.*

### **MUS 1510 - Spartan Drumline**

**0-1cr** The Spartan Drumline is comprised of music majors, minors, and non-majors. Students will practice and perform on marching percussion, as well as learn techniques appropriate to the instrumentation of the ensemble. Enrollment is limited to those with previous musical experience, not limited to percussion, or instructor's consent. Activities may include participation in selected winter athletic contests as well as various campus events. The drumline is an extension of The Spartan Marching Band, and may be repeated for credit.

*Lab fee \$ 50.*

*Every semester*

### **MUS 1520 - Spartan Marching Band**

**0-1 cr** The Spartan Marching Band is comprised of music majors, minors, and non-majors. Students will practice and perform in a uniformed collegiate marching band, as well as learn techniques appropriate to the instrumentation of the

ensemble. Enrollment is limited to those with previous musical experience, or instructor's consent. Activities will include participation in home football contests, various campus events, and possible parades. The Spartan Marching Band may be repeated for credit.

*Lab fee \$ 50.*

*Fall*

### **MUS 1530 - Spartan Spirit Band**

**0-1 cr** The Spartan Spirit Band is comprised of music majors, minors, and non-majors. Students will practice and perform at athletic events for select men's and women's basketball and hockey. Enrollment is open to everyone with previous musical experience, or consent of the instructor. The Spirit Band is an extension of The Spartan Marching Band, and may be repeated for credit.

*Lab fee \$ 50.*

*Spring*

### **MUS 1550 - Jazz Combos**

**0-1 cr** The Jazz Combos at Castleton are small ensembles consisting of four to eight members in which the students learn improvisational skills through the performance of classic jazz standards.

*Every semester*

### **MUS 1730 - Special Performance**

**1 cr** Designed for the student engaged in musical activities not otherwise sponsored by the Music Department.

*Prerequisite: Permission of the Music Department. May be repeated for credit.*

### **MUS 1740 - Applied Performance Coaching**

**1 cr** Individual musical performance coaching with a chamber music specialist and/or professional accompanist. Must be taken concurrently with the applied lessons in the primary applied area. May be repeated for credit.

*Fee \$350.*

### **MUS 2020 - Instrumental and Vocal Arranging**

**3 cr** This course covers elementary techniques of arranging for instruments and voices, including ranges, transpositions, and idiomatic usage.

*Prerequisite: MUS 1231 or consent of instructor.*

*Spring*

### **MUS 2030 - Early Field Experience in Music Education**

**1 cr** This course is designed to provide music education students with an opportunity to observe teachers and children in the school environment. It should be taken concurrently with MUS 1090. A minimum of 30 hours of field observation, study and participation are required. Pass/No Pass.

*Prerequisite: MUS 1090 or concurrent enrollment.*

*Spring*

### **MUS 2031 - History of Western Music: Ancient to Baroque**

**3 cr** A study of the forms and styles of music from medieval chant to the music of Bach. An emphasis is placed on experiencing the music through listening and, where possible, participation.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: MUS 1231, MUS 1232 or consent of instructor.*

*Fall, odd years*

## **MUS 2032 - History of Western Music: Classical to Modern**

**3 cr** A study of Western music from Mozart and Haydn to the present.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: MUS 1232 or concurrent enrollment.*

*Spring, even years*

## **MUS 2051 - Conducting I**

**3 cr** Basic elements of conducting skills explored through practical application. Two class periods.

*Spring*

## **MUS 2052 - Conducting II**

**3 cr** A further development of the student's conducting skills, including the experience of conducting a major choral or instrumental ensemble.

*Prerequisite: MUS 2051 or consent of instructor.*

*Fall*

## **MUS 2060 - Introduction to Exceptional Populations in Music Education**

**3 cr** This course examines the development and special needs of children and adolescents who have mental retardation, learning disabilities, speech and language disorders, emotional disturbance, physical disabilities, sensory disabilities, intellectual giftedness and talents, or other exceptionalities. The evolution of special education law and its implications for inclusion of exceptional students into music classroom environments is also investigated.

*Fall, even years*

## **MUS 2110 - Vocal Pedagogy**

**2 cr** Tone production, breathing, diction, intonation, and similar vocal problems are explored.

*Spring, even years*

## **MUS 2115 - Jazz Pedagogy**

**2 cr** The class focuses on the practical and musical aspects of teaching jazz from elementary general music to high school vocal and instrumental jazz ensembles. Subjects studied include the history of jazz, significant performers and composers, vocal and instrumental ensemble setups, rehearsal techniques, repertoire, rhythm section techniques, equipment, recommended recordings, and teaching rationales.

*Fall, odd years*

## **MUS 2120 - String Instrument Teaching Methods**

**2 cr** Basic techniques of violin, viola, cello and double bass. Selection and presentation of teaching materials.

*Prerequisite: MUS 1231 or concurrent enrollment.*

*Fee: \$30.*  
*Spring, Even Years*

### **MUS 2130 - Woodwind Instrument Teaching Methods**

**2 cr** Description: Basic techniques of flute, oboe, clarinet, saxophone and bassoon. Selection and presentation of teaching materials.

*Prerequisite: MUS 1231 or concurrent enrollment.*

*Fee \$30.*  
*Fall, Odd Years*

### **MUS 2140 - Brass Instrument Teaching Methods**

**2 cr** Description: Basic techniques of trumpet, horn, trombone and tuba. Selection and presentation of teaching materials.

*Prerequisite: MUS 1231 or concurrent enrollment.*

*Fee: \$30.*  
*Spring, Odd Years*

### **MUS 2210 - Chamber Singers**

**0-1 cr** The Castleton Chamber Singers is a select SATB ensemble dedicated to preparing high quality repertoire suitable for chamber choir. The Chamber Singers perform a variety of works from Renaissance Motets and Madrigals, to Contemporary Choral Literature. Performances include concerts and tours with the University Chorale, special events, and off-campus venues. Membership is open to University Chorale members by audition in the fall and spring. May be repeated for credit.

*Fee \$30.*  
*Every Semester*

### **MUS 2230 - Woodwind Quintet**

**0-1 cr** This course involves development of performance skills through the study of woodwind quintet literature of varying historical and compositional styles and levels of difficulty. Attention will be given to ensemble competencies such as tuning, balance, sight reading, and interpretation. Coursework will culminate in a public performance.

*Fee: \$25.*  
*Every semester*

### **MUS 2240 - Percussion Instrument Teaching Methods**

**2 cr** Basic techniques of snare drum, tympani, mallet instruments and other instruments of the percussion battery. Selection and presentation of teaching materials.

*Prerequisite: MUS 1231 or concurrent enrollment.*

*Fee \$30.*  
*Fall, Even Years*

### **MUS 3010 - Studies in Music**

**3 cr** A course of changing content: an intensive study of a particular composer (e.g., Mozart, Beethoven, Stravinsky), era (Baroque, Romantic, Contemporary), genre (jazz, computer music, film music) or other topic in the field of music as announced in the course schedule. May be repeated for credit with consent of department chair.

## **MUS 3015 - Music Theory and Aural Skills III**

**4 cr** The concepts of theory and aural skills developed in the first two semesters of the sequence are expanded and elaborated. Music theory topics covered include: advanced harmonic analysis, third and fourth species counterpoint, voice leading, secondary chord functions, modulation, larger form analysis, mode mixture, the Neapolitan chord, and augmented sixth chords. Aural skills topics include: continued exercises in solfège, chord recognition, and melodic and harmonic dictation. The student is exposed to increasingly advanced and complicated exercises and expected to develop skills to meet these challenges in aural skills.

*Prerequisite: MUS 1092 and MUS 1232.*

*Fee \$20*

## **MUS 3070 - Collegium Musicum**

**3 cr** The student researches, compiles, rehearses, and performs at least one semi-public concert during the semester. The student is given experience in estimating ability of available musicians, recruiting the musicians, and performing the music.

*Prerequisite: Consent of the Music Department.*

## **MUS 3165 - Methods of Teaching General Music preK-12**

**3 cr** This course includes methodologies for teaching music in the classroom (Orff, Kodaly, and Dalcroze approaches), computer applications, music textbooks, and classroom materials for music education grades preK-12. Course topics focus on the non-performance music curriculums. This course also includes the study of learning theories appropriate to elementary-aged music students combined with applications in developing practical lesson plans. Classroom meetings are combined with a required minimum of 15 hours of field observation, studies and participation. Observations will take place off campus with classroom music teachers preK-12.

*Prerequisite: MUS 1090 or permission of instructor.*

*Fall, even years*

## **MUS 3166 - Methods of Teaching Choral Music**

**2 cr** This course is designed to facilitate the development of skills, techniques, and professional dispositions that are necessary for choral leadership. Students will develop their philosophy of choral music education, develop score study and preparation skills, develop rehearsal technique and conducting skills, learn how to recruit, audition, and retain singers to/for their programs, understand the placement and seating arrangements of choral ensembles, create a repertoire selection rubric, and develop musical assessment strategies appropriate for choral ensembles. Classroom meetings are combined with a minimum of 8 hours of field observation, studies and participation. Observations will take place on and off campus with ensemble music teachers of grades 5 - 12.

*Prerequisite: MUS 1090 or permission of instructor.*

*Periodically*

## **MUS 3180 - Music Literature Seminar**

**3 cr** Music Literature Seminar is an intensive investigation of solo and chamber ensemble music literature. Students research, analyze and report on repertoire that is appropriate for their major concentration. Individual research, writing, presentations and performance of selected works are required.

*Prerequisite: Instructor permission required*

*Fee \$20*

*Spring, odd years*

## **MUS 3243 - Applied Performance - Flute**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see Music Department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3250 - Assessment of Musical Experiences**

**3 cr** This course addresses the unique issues involved in the assessment of general music, choral, and instrumental programs. Students will focus on the assessment of learners as performers, creators, and responders. Specific areas of study will include aural skills testing, auditioning, ensemble adjudication, written measures of assessment, and MENC National Standards for Music Education.

*Prerequisite: MUS 3165, MUS 3166, or permission of instructor.*

*Fall, odd years*

## **MUS 3253 - Applied Performance - Oboe**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3263 - Applied Performance- Bassoon**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director or Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3273 - Applied Performance- Clarinet**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities*

*Fee \$350*

### **MUS 3275 - Diction for Singers**

**3 cr** This course provides instruction in lyric diction for singers and includes the study of the International Phonetic Alphabet (IPA). Participants will learn to recognize the distinctive qualities with sounds in English, Italian, French, and German and demonstrate that knowledge in writing, speech, and singing.

*Fee \$10*

*Offered periodically*

### **MUS 3283 - Collaborative Piano**

**1 cr** Individualized instruction in the rehearsal and performance of piano in a variety of collaborative contexts. Students gain practical knowledge with hands-on experience in musical collaboration with both instrumentalists and vocalists.

*Prerequisite: Permission of instructor*

*Fee \$350*

### **MUS 3313 - Applied Performance- Saxophone**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director or Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3315 - Methods of Teaching Instrumental Music**

**2 cr** This course is designed to prepare music education majors to lead instrumental ensemble programs in grades 4-12, and to allow experienced directors to refine skills and develop new ideas and strategies. Topics will include rehearsal technique and planning, logistical organization and administration, curriculum development, budget and fundraising, and resource materials. Classroom meetings are combined with a required minimum of 8 hours of field observation.

*Prerequisite: MUS 1090 or permission of instructor*

*Periodically*

### **MUS 3323 - Applied Performance- Trumpet**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3333 - Applied Performance- French Horn**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3343 - Applied Performance- Trombone**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3353 - Applied Performance- Tuba**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3363 - Applied Performance- Percussion**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3373 - Applied Performance- Violin**



**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3383 - Applied Performance- Jazz Piano**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3400 - Applied Conducting**

**1 cr** *Prerequisite: MUS 2051 and MUS 2052 , permission of instructor.*

*Fee \$ 350.*

*Every semester*

### **MUS 3413 - Applied Performance- Viola**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department of enrollment form and consent.*

*Prerequisite: Permission of Director or Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3420 - Junior Recital**

**1 cr** A capstone course in which the student synthesizes and publicly demonstrates the knowledge and skills acquired through the student's Junior year of music study. This event will include a public presentation of representative literature in the student's primary applied area, and designing the program booklet and writing scholarly program notes. Prior to performing a Junior Recital students must have permission of the department chair, have fulfilled all related requirements in the music department handbook, and successfully pass a recital hearing.

*Prerequisite: Instructor permission required*

### **MUS 3423 - Applied Performance- Cello**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3433 - Applied Performance- String Bass**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3443 - Applied Performance- Piano**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3450 - Instructional/Music Application of Computers**

**3 cr** Students will study and use different applications of computers that enhance a student's ability to learn and to express ideas. Topics will include integrated software packages, music specific applications, multi-disciplinary integration, and an introduction to multi-media (experience with a word processor is recommended). **This course fulfills the Gen Ed computing requirement at the Bachelor's level.**

*Fall, even years*

### **MUS 3453 - Applied Performance- Electric Guitar**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.  
Fee \$350*

### **MUS 3463 - Applied Performance- Classical Guitar**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3473 - Applied Performance- Voice**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3483 - Applied Performance- Electric Bass**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

### **MUS 3493 - Applied Performance- Euphonium**

**2 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3743 - Advanced Applied Performance Coaching**

**1 cr** The purpose of Applied Music Performance is to prepare music majors for a performance career or advanced graduate study in music. Students will engage in weekly 50 minute lessons as with the 1000-level Applied Music, but expectations for practice and improvement will be notably higher. In addition, students are required to attend recitals and concerts sponsored by the department; and are required to perform in recitals, and prepare juried examinations and proficiency examinations as detailed in the department handbook. Course may be repeated for credit. Course may not be added or dropped after the second week of classes.

*Music and Music Education majors only, see music department for enrollment form and consent.*

*Prerequisite: Permission of Director of Choral or Instrumental Activities.*

*Fee \$350*

## **MUS 3900 - Independent Foreign Study in Music**

**Credits to be arranged.** Registration by permission of department chair only.

*Signed contract required at time of registration.*

## **MUS 4015 - Music Theory and Aural Skills IV**

**4 cr** The concepts of theory and aural skills developed in the first two semesters of the sequence are expanded and elaborated. Music theory topics covered include: advanced harmonic analysis, third and fourth species counterpoint, voice leading, secondary chord functions, modulation, larger form analysis, mode mixture, the Neapolitan chord, and augmented sixth chords. Aural skills topics include: continued exercises in solfège, chord recognition, and melodic and harmonic dictation. The student is exposed to increasingly advanced and complicated exercises and expected to develop skills to meet these challenges in aural skills.

*Prerequisite: MUS 3015*

*Fee \$20*

## **MUS 4610 - Seminar in Teaching Music**

**1 cr** The seminar prepares the music student for the student teaching experience, supports the student during the experience, and introduces or reviews competencies associated with the role of the professional music educator. Preparation of the teacher licensure portfolio is emphasized. Pass/ No Pass.

*Prerequisite: Taken concurrently with student teaching.*

*Every semester*

## **MUS 4720 - Senior Recital**

**1 cr** A capstone course in which the student synthesizes and publicly demonstrates the knowledge and skills acquired throughout the student's undergraduate study of music. This event will include a public presentation of representative literature in the student's primary applied area, a public lecture discussing this literature, and designing the program booklet and writing scholarly program notes.

*Prerequisite: Fulfillment of all requirements outlined in the Music Department Handbook. Consent of department chair.*

## **MUS 4740 - Senior Seminar**

**2 cr** Directed study or research in music, leading to a public lecture or presentation. May be taken concurrently with MUS 3070. Fulfillment of all other requirements for music majors.

## **MUS 4810 - Orchestral Internship**

**1-3 cr** Practical experience with an orchestra or other large performance group.

*Signed contract required at time of registration.*

*Prerequisite: Approval of department and orchestra or performance group. May be repeated for credit.*

## **MUS 4871 - Directed Student Teaching I**

**6 cr** This course is an opportunity for the student to teach under the guidance of a qualified cooperating teacher and university supervisor. Students seeking teacher licensure in pre K-12 Music must apply, qualify, and be admitted to student teaching. This course is taken concurrently with MUS 4872 and MUS 4610.

*Prerequisite: Completion of required major courses and GPA, departmental recommendation, professional and intellectual competencies as stated within the application requirements.*

*Spring*

## **MUS 4872 - Directed Student Teaching II**

**6 cr** This course is an extension of student teaching in music for licensure in pre K-12 Music. This course must be taken concurrently with MUS 4871 and MUS 4610.

*Spring*

## **MUS 4900 - Independent Study**

**1-3 cr** Hours by arrangement. May be repeated for credit.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair*

## **Nursing**

*Other relevant courses may be found under Biology.*

## **NUR 1030 - Introduction to Professional Nursing**

**3 cr** This course will provide nursing students with foundational concepts essential for the transition from interested layperson to professional nurse. Students will be introduced to professional nursing standards and guidelines, values, and behaviors inherent to the practice of nursing. The focus will include exploration of the development and history of professional nursing, lifelong learning, health policy and political action, code of ethics, legal issues, healthcare delivery systems, patient advocacy, inter-professional teamwork, quality improvement, altruism, and social justice. BS.NUR majors only.

*Prerequisite: BIO 2011 and BIO 2012 with minimum grades of B-.*

*Co-requisite: Recommend previous completion (grades of B- or better) or concurrent enrollment in MAT 1350, NUR 2012, BIO 2125, and BIO 1030 .*

*Lab fee \$407 to cover Nurse Central Subscription, nametags and patches, and ATI services.*

*Fall*

## **NUR 2012 - Health Assessment**

**3 cr** A practical application of health assessment, this course focuses on techniques of history taking, including environmental exposure and genetic risks, and physical examination in a cross-cultural, patient centered context. Using a systems approach, students conduct focused and comprehensive assessments of essentially well individuals across the

lifespan. Students will describe findings and differentiate normal from atypical or abnormal. Simulated and Virtual Hospital experiences provide opportunities for students to integrate communication, assessment and clinical judgment skills as the basis for nursing intervention and practice.

BS.NUR or BS.NUR.RN majors only.

*Prerequisite: BIO 2011 and BIO 2012 with grades of B- or better.*

*Co-requisite: Recommend previous completion (grades B- or better) or concurrent enrollment in BIO 2125 and NUR 1030.*

*Fee \$50*

*Fall*

## **NUR 2035 - Fundamentals of Nursing Practice**

**7 cr** This course introduces concept-based nursing care and the nursing process with an emphasis on the provision of safety, quality, and patient-centered care. The focus is the study of individuals throughout the life span with a concentration on physiological and psychosocial integrity for nursing practice including critical thinking, clinical judgment, caring, pharmacological therapies, infection control, teaching and learning, and mutually respectful communication. Simulated and Virtual Hospital experiences enhance practice experiences in long term care and hospital settings.

BS.NUR majors only.

*Prerequisite: NUR 1030, NUR 2012, and BIO 2125 with grades of B- or better.*

*Co-requisite: Recommend successful completion (grades of B- or better) or concurrent enrollment in NUR 2050 and NUR 2510.*

*Lab fee \$425 to cover Virtual Hospital lab kit and ATI services.*

*Spring*

## **NUR 2050 - Pharmacology for Nurses**

**3 cr** This course provides an essential foundation for the nursing care of patients receiving pharmacologic agents for the prevention and management of alterations in biophysical and psychosocial function. Its focus is the role of the nurse in promoting the achievement of safe and quality outcomes for patients receiving these therapies. Content is systems focused and emphasizes evidence based thinking and clinical decision making in relationship to the basic principles of pathophysiology, pharmacology, diagnostics, and the nursing management of patients receiving commonly prescribed therapies.

BS.NUR or BS.NUR.RN majors only.

*Prerequisite: NUR 1030, NUR 2012 and BIO 2125 with grades of B- or better.*

*Co-requisite: Recommend successful completion (grades B- or better) or concurrent enrollment in NUR 2035 and NUR 2510.*

*Spring*

## **NUR 2510 - Evidence-Based Practice in Nursing**

**3 cr** This course will explore inquiry and scholarship in nursing with a focus on providing students with foundational knowledge regarding critical appraisal and research utilization for its relevance and applicability to selected health care strategies and conditions. The course will also examine the basic elements of the research process and models for applying evidence in clinical practice to support nursing care and quality standards and foster analytical thinking that reduce the variations in patient care.

BS.NUR or BS.NUR.RN majors only.

*Prerequisite: NUR 1030, NUR 2012 and BIO 2125 with grades of B- or better.*

*Co-requisite: Recommend concurrent enrollment in NUR 2050 and NUR 2035.*

*Fall*

## **NUR 3010 - Health Promotion and Protection**

**3 cr** The course focus is individuals' health and wellness across the lifespan. Health values, beliefs, and personal preferences are examined to determine their impact on attitudes and practices. Health data and risk factors are evaluated to establish health deficits. Health promotion models serve as the framework to identify evidence-based nursing interventions to influence individuals' health promotion and health protection. Intervention strategies are actualized through the principles of learning that include assessment of learning style and determinants of learning prior to the use of effective teaching strategies. Emphasis is placed on the role of the nurse as advocate and change to support optimal health outcomes for individuals as members of a family. Evidence-based findings are critically examined and applied in the process of planning, implementing, and evaluating nursing interventions at the primary, secondary, and tertiary levels of prevention.

BS.NUR.RN majors only.

*Fall*

## **NUR 3020 - RN Transition to Professional Nursing Practice**

**2 cr** This course is foundational for RN students who will become leaders and change agents in the complex healthcare system in which they practice. Students with a variety of nursing experiences will come together to examine advocacy, empowerment, life-long learning and self-renewal in their evolving nursing careers. The characteristics of and barriers to professionalism are examined. Representative nursing philosophies, conceptual models and theories are explored to consider how each works to guide the practice of nursing. Through development of a written philosophy of nursing, each student has the opportunity for personal reflection about role change and career development associated with educational advancement in nursing and the role of the professional nurse as a member of the interdisciplinary team.

BS.NUR.RN majors only.

*Co-requisite: Recommend concurrent or successful completion of NUR 3075.*

## **NUR 3040 - Pathophysiology**

**3 cr** The focus of this course is the pathogenesis of disease leading to alterations of human body structure and function across the lifespan. Student examine the etiology and progression of disease and disorder states from the micro (cellular) and macro (organ) levels and the human response to such change. Students integrate and apply pathophysiological concepts to patient care through the development of primary, secondary, and tertiary interventions to attain, maintain, and retain optimal health. Patient centered care based on ethical principles, behaviors and values will be explored as it pertains to pathophysiological disorders.

BS.NUR or BS.NUR.RN majors only.

*Prerequisite: BIO 2125 with a grade of "B-" or better.*

*Co-requisite: Recommend concurrent enrollment in NUR 3060.*

*Fall*

## **NUR 3060 - Nursing Care of Adults**

**8 cr** The focus is the study of individuals with acute and chronic health problems that occur when the ability to meet one or more basic needs is severely compromised. Students will apply the nursing process in health care promotion, health restoration, and health maintenance with a focus on patient outcomes. Students explore the role of clinical microsystems in assuring safe, quality healthcare. Simulated and Virtual Hospital experiences enhance practice experiences in the home, community and acute care settings.

BS.NUR majors only.

*Prerequisite: NUR 2035 with a minimum grade of B-.*

*Co-requisite: Recommend concurrent enrollment or successful completion (grade of B- or better) of NUR 3040.*

*Fall*

## **NUR 3065 - Nursing Informatics**

**3 cr** This course, an integration of nursing, computers, and information science, introduces students to the essential role of informatics in improving patient care outcomes, nursing practice, and creating a safe care environment. Throughout this course students will have opportunities to organize, evaluate, and use health information and knowledge to critically appraise and use information technology to enhance evidence-based practice. The focus of discussions will include ethical considerations, social networking tools, electronic health records, handheld computers, and e-portfolios in health care environments.

BS.NUR or BS.NUR.RN majors only.

*Prerequisite:* NUR 2035 and with a minimum grades of B-.

*Co-requisite:* Recommend concurrent enrollment in NUR 3070 and NUR 3075.

*Spring*

## **NUR 3070 - Care of Clients with Mental Health Problems**

**5 cr** This course provides a concentrated experience in the specialty area of mental health nursing by addressing the nursing care of pediatric, adult, and geriatric clients with a variety of psychiatric disorders and mental health needs including those related to crisis, addiction, and suicide. Emphasis is placed on using effective therapeutic communication techniques, completing a psychiatric nursing assessment, and maintaining patient safety as a member of a multidisciplinary team caring for individuals with mental health needs. Simulated and Virtual Hospital experiences enhance practice experiences in the community and acute care settings.

BS.NUR majors only.

*Prerequisite:* NUR 3060 and NUR 3040 with grades of B- or better.

*Co-requisite:* Recommend concurrent enrollment in NUR 3065 and NUR 3075.

*Spring*

## **NUR 3075 - Community Health Nursing**

**6 cr** This course focuses on community and public health nursing concepts and theories in relation to population-focused health care in diverse settings. Students incorporate the principles of epidemiology and the art and science of nursing to reduce genetic and environmental risk, prevent disease, and promote health in vulnerable aggregates and populations. As advocates for social justice, students collaborate with community partners in service learning activities with the ultimate goal of eliminating health disparities. Simulated and Virtual Hospital experiences enhance practice experiences in local and/or international communities. A clinical practicum of 126 hours is required.

BS.NUR or BS.NUR.RN majors only.

*Prerequisite:* NUR 3060 and NUR 3040 with grades of B- or better.

*Co-requisite:* Recommend concurrent enrollment in NUR 3065 and NUR 3070.

*Spring*

## **NUR 4010 - Family Health Nursing**

**3 cr** The focus of this course is on the family as client. The framework for investigation and assessment is family systems theory combined with a development life-cycle approach. Cultural, ethnic, racial, religious, and socioeconomic variables that strongly influence family life are analyzed. Advanced communication skills and critical thinking are emphasized as students are challenged to critique the best current evidence and family theory in delivering compassionate care to selected families that reflect patient and family preferences. Simulated and Virtual Hospital experience enhance practice experiences in ambulatory and community settings. A clinical practicum of 42 hours is required.

BS.NUR.RN majors only.

*Spring*

## **NUR 4025 - Care of Childbearing and Childrearing Families**



**8 cr** Nursing care of the childbearing family focuses on the nursing care of families during the childbearing phase of the life cycle- from preconception through pregnancy, birth, and the postpartum period. The course focuses on normal and high-risk pregnancy and each phase of the childbearing period. Nursing care of the childbearing family introduces students to caring for children as they grow and develop within a family system. Discussion focuses on commonly occurring physiological disruptions in childhood, from infancy to adolescence. Simulated and Virtual Hospital experiences enhance practice experiences in ambulatory, community, and acute care settings.

BS.NUR majors only.

*Prerequisite: NUR 3075 with a grade of B- or better.*

*Co-requisite: Recommend concurrent enrollment or successful completion (a grade of B- or better) of NUR 4030.*

*Fee of \$414 for ATI services.*

*Fall*

## **NUR 4030 - Management and Leadership in Nursing**

**3 cr** This course provides the basis for understanding leadership and management principles as they relate to the delivery of health care. Emphasis is placed on understanding how the use of leadership and management theories can create a positive difference in the quality of nursing practice. Selected management and leadership models, concepts, and theories are explored. Emphasis is placed on ethical decision-making and the enhancement of communication skills to effectively work with groups and organizations. A clinical practicum of 42 hours of experience is required.

BS.NUR or BS.NUR.RN majors only.

*Prerequisite: NUR 3070 with a grade of B- or better.*

*Co-requisite: Recommend concurrent enrollment in NUR 4615 and NUR 4810.*

*Fall*

## **NUR 4610 - Healthcare Policy, Finance and Regulation**

**3 cr** This interdisciplinary course offered to nursing, business, and political science students, focuses on how healthcare, finance, and regulation policies and legislative processes influence nursing practice and the nature and functioning of the healthcare system in the United States. Students will examine the business principles that underlie how healthcare is organized and financed. The implications of healthcare policy on issues of access, equity, affordability, and social justice in healthcare delivery will be highlighted. Students have opportunities to participate in political processes to influence healthcare policy at the local, state, or national level.

BS.NUR and BS.NUR.RN majors only.

*Prerequisite: NUR 4030 with a grade of B- or better.*

*Co-requisite: Recommend concurrent enrollment in NUR 4615 and NUR 4810.*

*Spring*

## **NUR 4615 - Transition to Professional Nursing Practice**

**3 cr** This course is foundational for students preparing to transition to the first year or practice as a baccalaureate generalist nurse. Students will examine advocacy, empowerment, life-long learning and self-renewal as they prepare to enter the first year of professional practice. The characteristics of and barriers to professionalism are examined. Exploring evolving theories and literature on the challenges of this first year, students will select strategies in preparation for this significant change. Representative nursing philosophies, conceptual models and theories are explored to consider how each works to guide nursing practice. Each student has the opportunity to develop a philosophy of nursing through personal reflection about role change, professional development, and the role of the professional nurse as a member of the interdisciplinary team in a complex health care delivery system.

BS.NUR majors only.

*Prerequisite: NUR 4030 with a grade of B- or better.*

*Co-requisite: Concurrent enrollment in NUR 4610 and NUR 4810.*

*Spring*

## **NUR 4810 - Patient Care Management Capstone**

**8 cr** This generic track capstone course emphasizes the application of the nursing process in the care of patients with increasingly complex acute and chronic health problems. Students set priorities in the role of manager and coordinator of care based on the best current evidence and evaluation of nursing sensitive outcomes. Promotion of factors that create a culture of safety and caring within the clinical microsystem is emphasized. Learning experiences include the classroom and a clinical practicum experience in the acute care setting that is facilitated by an expert nurse preceptor. BS.NUR majors only.

*Co-requisite: Recommend concurrent enrollment in NUR 4610 and NUR 4615.*

*Lab fee of \$449 to cover the nursing pin and ATI services.*

*Spring*

## **Outdoor Educational Recreation**

*Other relevant courses may be found under Physical Education.*

### **OER 1131 - Rock Climbing**

**1 cr** *Fall (First Half of Semester), Spring (Second Half of Semester)*

### **OER 1133 - Rock Climbing and Rappelling**

**1 cr** *Fall (First Half of Semester), Spring (Second Half of Semester)*

### **OER 1150 - Winter Recreation and Camping**

**2 cr** *Additional course fee. Please refer to the individual semester offerings for specific fees.*

*Spring*

### **OER 1170 - Ice Climbing**

**1 cr** The student will be exposed to the equipment, climbing safety and basic techniques of climbing. The course requires the student to be available for at least two weekend days to be determined by the instructor.

*Fee \$75.*

*Periodically*

### **OER 1180 - Introduction to Telemark Skiing**

**1 cr** The student will be exposed to the equipment and technique used in telemark skiing. This course meets at Pico ski area. Equipment is supplied.

*Fee \$150.*

*Periodically*

### **OER 1210 - Orienteering and Camping Skills**

**2 cr** *Additional course fee. Please refer to the individual semester offerings for specific fees.*

*Fall*

### **OER 1211 - Adventure Education – Low Elements**

**2 cr** The Project Adventure Model-An interrelated and sequential approach to adventure education for the physical education class or any classroom environment. Students will learn cooperative warm ups, non-traditional games, trust activities, problem solving initiative, and will include involvement in a low ropes challenge course.

*Prerequisite: Permission of instructor.*

*Fee \$15.*

*Spring*

## **OER 1212 - Adventure Education – High Elements**

**2 cr** The Project Adventure Model-An interrelated and sequential approach to adventure education for the physical education class or any classroom environment. Students will review some cooperative warm ups, non-traditional games, trust activities and problem solving initiatives. Majority of the class will include involvement in low and high ropes challenge course and related material i.e. knot tying, belaying, safety, etc.

*Prerequisite: OER 1211.*

*Fee \$15.*

*Fall*

## **OER 1225 - Wilderness Canoe Tripping**

**1 cr** This class investigates the art of canoeing, through the lens of a wilderness canoe trip leader. Students learn to assess risk and manage it accordingly on a multi-day paddling trip. This involves group management, diverse paddling strategy, choosing and packing appropriate gear, camp set up, menu planning and cooking, route finding, canoe rescue and maintenance. The class culminates with a three-day paddling expedition in the Northeast wilderness. Each student leaves the course confident in his/her ability to lead a multi-day canoe trip through a variety of water types, including flat and white water. Students have the ability to appropriately instruct and monitor a group as they prepare for and engage in a canoe expedition.

*Fee \$125*

*Spring, 7 week course*

## **OER 1230 - Introduction to Mountain Biking**

**1 cr** This course gives the beginning mountain biker the basic skills necessary to navigate off road terrain. The student will be introduced to basic gear shifting, braking and bike control/handling. Students will be exposed to climbing and downhill techniques. A review of bike maintenance is included. Equipment is provided.

*Fee \$50*

*Fall*

## **OER 1240 - Fly Fishing**

**1 cr** This course introduces the student to the basics such as how to cast, fly selection, what to expect, how to read water, trout behavior, how to dress trout and trout identification. Basic fly tying techniques are covered. Equipment is provided and students must be available for a few weekend day trips.

*Fee: \$75.*

*Fall (First Half of Semester)*

## **OER 1320 - Back Country Skiing and Snowboarding**

**1 cr** This is a course for the skier or snowboarder who is ready to take their sport to the next level. Through hands on experience and engaging lecture and slide shows, the student will be given the knowledge to leave the groomed trail and enter into the back country and all it has to offer. The focus will be on wilderness touring and off resort alpine environments. The class will end with an overnight back country excursion. This class will prepare you for a career in

winter wilderness recreation or a lifetime of back country endeavors. Two trips will be available, an alpine trip for snowboarders and alpine skiers and a wilderness ski touring trip.

*Prerequisite:* Ability to ski or snowboard at an advanced level and access to winter camping equipment highly recommended.

*Fee \$75.*

*Spring*

### **OER 2060 - Advanced Wilderness First Aid**

**3 cr** This course provides essential information for developing first aid skills while in the wilderness. Students receive an Advanced Wilderness First Aid certification from SOLO and an American Heart Association Adult CPR certification.

*Fall*

### **OER 2170 - Primitive Survival Skill**

**2 cr** This course is designed to investigate northeastern wilderness environments and the relation to the modern adventurer, minimalist, or nature enthusiast. The course will abandon the technical rhetoric of modern adventure and delve into the lost art of the self-sufficient backcountry wisdom. Included is the study of the psychology of wilderness living and survival, primitive fire building, wilderness food preparation, emergency hunting and trapping, edible plant gathering and preparing g, cordage weaving, shelter construction, water purveying and filtration etc. The class will combine lecture with hands on instruction. The class requires a three day primitive skill "walkabout" in the remote regions of the Green Mountains and a 24 hour solo experience.

*Fall*

### **OER 2220 - Theory of Outdoor Leadership**

**2 cr** This course provides an in depth understanding of industry standard leadership practices in the field of outdoor recreation. Students will have the opportunity to apply the leadership skills and theories discussed throughout the course in a practical setting. A large focus will be directed towards program planning, environmental stewardship, expedition behavior and effective teaching styles.

*Fall*

### **OER 2310 - Winter Mountaineering**

**3 cr** This course provides essential information for survival and adventure in the wild during the winter months. Included is the study of living and survival, food preparation, shelter construction and group dynamics during winter expeditions. The class will combine lecture with hands on instruction. Included are required trips that include weekend and semester vacations. Equipment is provided.

*Fee: \$125.*

*Spring*

## **Physical Education**

*Other relevant courses may be found under Allied Health Sciences.*

### **AHS 1620 - Nutrition for Optimal Health and Wellness**

**3 cr** This course is designed to expose students to the basics of nutrition and the impact of diet on health and wellness. Students will be introduced to basic human physiology and the role of nutrition in optimal functioning of

various physiological systems. The semester will begin with an introduction to basic physiology and basic carbohydrate, fat, and protein metabolism. Subsequent topics include hydration, vitamins, minerals, antioxidants, supplements, and fad diets.

*Fall*

### **PED 1015 - Introduction to Health and Physical Education**

**3 cr** This course is an introduction to the profession of physical education and health education. Discussion of physical education and health education history, philosophy and ethics, career opportunities, recreation, and athletics are included.

*Fall*

### **PED 1040 - Archery**

**1 cr** *Fall (First Half of Semester)*

### **PED 1060 - Water Safety Instruction**

**2 cr** *Spring*

### **PED 1070 - Fitness Swimming**

**1 cr** Main objectives of fitness swimming include: 1) refining and enhancing stroke techniques, 2) improving cardiovascular fitness (aerobic capacity), muscular strength, and muscular endurance, and 3) providing students with the skills and ideas to encourage competency in designing their own swimming work-outs.

*Every semester, 7 week course*

### **PED 1140 - Yoga**

**1 cr** *Frequently*

### **PED 1160 - Tennis**

**1 cr** *Additional course fee. Please refer to the individual semester offerings for specific fees.*

*Fall (First Half of Semester), Spring (Second Half of Semester)*

### **PED 1170 - Endurance Running**

**1 cr** This course assists participants in beginning or improving one's distance running, regardless of previous running experience. Proper body mechanics, equipment, care and prevention of injuries related to running, goal-setting, and various aspects of health are presented. Several systems of training are addressed.

*Periodically, Fall (First Half of Semester) or Spring (Second Half of Semester)*

### **PED 1180 - Golf**

**1 cr** *Additional course fee. Please refer to the individual semester offerings for specific fees.*

*Fall (First Half of Semester), Spring (Second Half of Semester)*

### **PED 1210 - Badminton**

**1 cr** Additional course fee. Please refer to the individual semester offerings for specific fees.  
*Fall (First Half of Semester), Spring (Second Half of Semester)*

### **PED 1215 - Football**

**1 cr** This class is designed to teach the skills needed to play football and develop the teaching methodology needed to coach football. Participation is required and will include peer teaching and lesson planning.  
*Spring*

### **PED 1220 - Basketball**

**1 cr** *Spring (First Half of Semester)*

### **PED 1230 - Softball**

**1 cr** *Spring (First Half of Semester)*

### **PED 1240 - Soccer**

**1 cr** *Fall (First Half of Semester)*

### **PED 1250 - Indoor Soccer**

**1 cr** *Spring (First Half of Semester)*

### **PED 1260 - Therapeutic Massage**

**1 cr** *Periodically*

### **PED 1270 - Martial Arts**

**1 cr** *Fall (First Half of Semester), Spring (Second Half of Semester)*

### **PED 1275 - Ultimate Frisbee**

**1 cr** Ultimate Frisbee is a fast-paced fun game that is played world-wide. This course is an introduction to the rules, basic skills, and strategies for playing ultimate frisbee. Course components include drills to improve individual skills and team play, modified games, and full-game play.  
*Periodically*

### **PED 1280 - Pickleball**

**1 cr** Pickleball is a sport similar to tennis played inside on a gymnasium floor. The dimensions of the court are the same as for badminton. It is a fast and exciting game that is physically challenging.  
*Periodically*

### **PED 1290 - Lacrosse**

**1 cr** This course is an introduction to the game of lacrosse. Participants learn the basic skills of the game including passing, catching, ground ball pick ups, cradling, shooting, defending and conditioning as well as strategies of play, rules, and game formations. A variety of drills are used to teach and improve basic techniques early in the course and progress toward game play. The course touches upon the differences between the men's game and the women's game, but the course is designed and played more like the women's game (without direct contact and use of helmets and other necessary equipment as in the men's game). Video is used to show both the men's and women's game.

*Spring, 7 week course*

### **PED 1310 - Pilates**

**1 cr** An updated approach to the body conditioning system developed by the late Joseph H. Pilates. The exercises combine breath and controlled, precision movement to build core strength and stability. Taught in the Stott Pilates Style.

*Periodically*

### **PED 1350 - Introduction to Sports Administration**

**3 cr** This course is an investigation into the relationships, philosophies, goals, and missions within the administration of athletic, recreation, and physical education programs. Areas of study include the history and evolution of sports management, current trends in the profession, career options and professional development, and an introduction to topical areas such as fund-raising, management, marketing, media outlets and the economics of sport. There is also a significant portion of class dedicated to service-learning, in which students will partner with a community organization to provide administrative services.

*Every semester*

### **PED 1360 - Introduction to Ice Hockey**

**1 cr** This course is designed to teach the novice skater to play the game of ice hockey. Included is basic skating technique, stick handling and puck control, shooting and basic positioning. Helmets, gloves and sticks must be supplied by the student. It is possible to get skates at Rutland Regional Fieldhouse where the class is held. Student must supply their own transportation to Rutland Regional Fieldhouse.

*Every semester, 7 week course*

### **PED 1410 - Reiki Plus**

**1 cr** REIKI is a complement to other therapies, never intended to replace conventional medical care, will not interfere with other modalities, can do no harm and is based on intention. REIKI is not a massage modality, but works on the Autonomic Nervous System, addressing mind, body spirit and is taught "hands-off." The class includes Level I and II REIKI attunements, additional training in smudging, dowsing, muscle testing, crystals, chakras, and singing bowls.

### **PED 1610 - Concepts of Fitness and Skill Performance**

**2 cr** The course emphasizes the development and assessment of fundamental motor skills and fitness levels in physical education candidates. Students are required to demonstrate competent (mature) skill levels and Health Fitness Zone levels on the Fitness Gram for successful completion of this course.

*Prerequisite:*

*Co-requisite: PED 1015*

*Fall*

### **PED 1710 - Field Hockey**

**1 cr** An introduction to the sport of field hockey including skills, rules, officiating, lead-up games and coaching drills. Game strategy and conditioning is included.  
*Spring Second Half of Semester*

### **PED 2010 - Beginning Swimming**

**1 cr** *Fall (First Half of Semester), Spring (Second Half of Semester)*

### **PED 2020 - Teaching Games and Movement**

**1 cr** Students will explore teaching methods and the purpose for playing games in the elementary and secondary environment. Simulated lesson plans will students to understand and refine their teaching skills and knowledge about the use of developmentally-appropriate games.  
*Prerequisite: PED 2410.*

### **PED 2050 - Volleyball**

**1 cr** *Every semester, 7 week course*

### **PED 2055 - Coaching Volleyball**

**3 cr** This course investigates the fundamental principles and techniques of coaching volleyball. The student learns strategies for developing a coaching philosophy, coaching techniques, practice planning, game tactics, the rules of the sport and general team management.

### **PED 2070 - Conditioning**

**2 cr** This course introduces the student to a variety of activities including speed and agility drills, strength training, circuits and cardiovascular training.

### **PED 2072 - Advanced Strength and Conditioning**

**1 cr** This activity course is offered for individuals who have already achieved a high level of physical fitness but wish to participate in strength and conditioning activities to push themselves to an even higher level of fitness. The class will feature a variety of activities including speed and agility drills, strength training, circuits and cardiovascular training. It is recommended that each individual enter the course at a good level of fitness.  
*Fall (First Half of Semester), Spring (Second Half of Semester)*

### **PED 2090 - Principles and Practices of Coaching**

**3 cr** An introduction to the basic principles and practices of coaching to include the administration and organization of athletic programs. Emphasis is placed on methods of organizing and planning practices and games, evaluating and fitting equipment, budgeting, facilities, coaching responsibilities, legal issues and ethics. An investigation into the medical aspects of sports will be discussed with emphasis into conditioning techniques, injury prevention and treatment of athletic injury prevention.  
*Spring*

### **PED 2120 - Psycho-Social Aspects of Physical Activity**



**3 cr** Examines the psychological and sociological frameworks of sport and physical activity for participants at all levels. Includes topics such as motivation, performance enhancement, group dynamics, aggression and socio-cultural influences.

*Every semester*

### **PED 2130 - Horsemanship**

**1 cr** *Additional course fee. Please refer to the individual semester offerings for specific fees.*

*Fall (First Half of Semester), Spring (Second Half of Semester)*

### **PED 2140 - Fitness Center Management**

**3 cr** This course is designed to explore and analyze current management practices in public, private, and corporate fitness centers. Topics to be considered include assessment practices, facility design, planning marketing, organizational aspects, and evaluation. Additionally, a review of certifications through various professional organizations and job opportunities will be discussed.

*Prerequisite:* current CPR certification or permission of the instructor.

*Fall*

### **PED 2150 - Emergency Water Safety**

**1 cr** *Spring (First Half of Semester)*

### **PED 2155 - Professional Rescuer Essentials**

**1 cr** This course is designed to give the student, who is currently certified as a Professional Rescuer, advanced skills including AED and Oxygen Therapy. Both lecture and laboratory environments will be utilized.

*Fall*

### **PED 2160 - Emergency Care and Personal Safety**

**3 cr** Emergency Care is an American Red Cross Emergency Response Course based on the U.S. Department of Transportation (DOT) 1995 First Responder: National Standards Curriculum. This course will provide the participant essential information for developing the functional first aid capabilities of a first responder. As a crucial link in the EMS system, first responders evaluate and treat patients until more advanced medical help can arrive. This course does not provide state licensure for ambulance personnel.

*Fee \$15.*

*Every semester*

### **PED 2170 - Lifeguarding**

**2 cr** *Spring, Full Semester*

### **PED 2180 - Coaching Soccer**

**3 cr** This course investigates the fundamental principles and techniques of coaching soccer. Included within the context of the course, the student will learn correct techniques for coaching skills, developing practices, scouting reports, game plans, conditioning programs, and budgets. The student will also learn rules and nomenclature of soccer, refereeing systems, team management techniques, and preparation of statistics. This course is an NSCAA Regional Diploma course.

*Fee \$60.*

*Fall*

### **PED 2190 - Principles of Coaching Ice Hockey**

**3 cr** This course will focus on the strategy and theory of coaching ice hockey. The facets of the game discussed will be practice and season planning, appropriate instruction of hockey skills, offensive and defensive tactics, scouting, offense and defensive systems, mental training, special teams, goaltending, statistics and coaching professionally. The course will prepare the students to be certified in both Level I (initiation) and 2 (associate) of the USA Hockey Coaching Education Program.

*Spring*

### **PED 2210 - Physical Methods of Stress Management**

**1 cr** *Every semester, 7 week course*

### **PED 2220 - Coaching Basketball**

**3 cr** This course encompasses all aspects of basketball and the variety of philosophies and teaching methods that can be used. The rules of the game, different offensive and defensive strategies, organization of a program and the positive and negative aspects of the coaching profession will be topics of study.

*Fall*

### **PED 2230 - Beginning Scuba**

**1 cr** *Additional course fee. Please refer to the individual semester offerings for specific fees.*

*Periodically*

### **PED 2240 - Coaching Baseball and Softball**

**3 cr** This course will investigate the fundamental principles and techniques of coaching baseball and softball. Included within the context of the course, the student will learn correct techniques for coaching skills, developing practices, game plans, conditioning programs, and budgets. The student will also learn rules and nomenclature of baseball and softball, team management techniques, and preparation of statistics.

*Periodically*

### **PED 2250 - Timid Swim**

**1 cr** *Spring (First Half of Semester)*

### **PED 2260 - Gymnastics/Stunts and Tumbling**

**1 cr** *Fall (Second Half of Semester)*

### **PED 2270 - Racquetball**

**1 cr** *Periodically*

### **PED 2310 - Technology for Health and Physical Education**

**3 cr** This course will provide to students the technology competencies expected of 21st century educators, and specifically the technology skills required in the fields of physical education and health education. Students will learn how to apply what they experience in this course to both their future teaching and to the production of their electronic licensure portfolio. Students are encouraged to supply their own iPad and/or laptop.

*Physical or Health Education majors*

*Spring*

### **PED 2320 - Motor Learning**

**3 cr** This course is designed to present information concerning the fundamental principles and concepts in the acquisition and refinement of motor skills/abilities. The learning and performance of motor skills become cornerstones from which concepts, processes, and strategies are built. The course provides the students with a basic understanding of the discipline and to provide experiences that will enhance their understanding and application of motor learning in a variety of environments. Laboratory sessions are designed to enhance the understanding of the topics covered in lecture.

*Periodically*

### **PED 2350 - White Water Rafting**

**1 cr** *Additional course fee. Please refer to the individual semester offerings for specific fees.*

*Spring (Second Half of Semester)*

### **PED 2370 - Community Health**

**3 cr** A study of current community and world health issues to include an overview of epidemiology, communicable disease, environmental health, health services and consumerism.

*Spring*

### **PED 2390 - Coaching Football**

**3 cr** This course is designed to develop knowledge in the many aspects of coaching football. Included are offensive and defensive positions, stances, job descriptions, formations, schemes, play calling, fronts, coverages, blitzes and stunts. Students learn to use self-scout and opponent video breakdown analysis as it is used for practice and game planning. The terminology, philosophy, strategy, and rules of football are emphasized.

*Spring*

### **PED 2410 - Curriculum and Instruction in Physical Education**

**3 cr** Examines the physical education curriculum at the elementary and secondary levels; emphasizes strategies for planning effective instruction; explores teaching and learning styles; analyzes effective behavior management; and examines safety and liability.

*Prerequisite: PED 1015 and PED 2420.*

*Periodically*

### **PED 2420 - Foundations of Teaching Health and Physical Education**

**3 cr** This course gives students the opportunity to discover the science and art of teaching. Students, through a field-based experience, observe and reflect upon the act of learning in physical education and/or health education at the elementary, and/or secondary levels. Included is a study of the historical, social, and philosophical foundations of contemporary education and an examination of current educational trends and programs. Areas of study include professionalism, school laws, governance of schools, equitable learning, school problems, basic teaching strategies,

development of an educational philosophy, and an introduction to state and national standards for students and teachers. Students will complete a minimum of 20 hours in a supervised classroom setting that involves direct observation and participation. A law enforcement background check completed at the student's expense may be required. Personal transportation is required.

*Prerequisite: Minimum grade of "C" in PED 1015.*

### **PED 2430 - Advanced Scuba**

**1 cr** This course is conducted using course standards and materials through the Professional Association of Diving Instructors (PADI). The PADI Adventures in Diving course, which leads to the Advanced Open Water certification, provides divers with a structured means to explore special diving interests and gain dive experience. This program allows student divers to customize their training path and learn various underwater skills that broaden their awareness of the environment and their capabilities as divers. Students are assessed by demonstrating that they meet measurable learning objectives through the concept of performance-based learning. The course combines classroom, pool, and open-water participation to successfully meet certification requirements. Other topics in the course include diver safety, the aquatic environment, health for diving, programming, teamwork, presentation skills, and research projects. Students will learn about the many career opportunities that are available in the dive industry.

*Fee: \$400.*

*Fall Second Half of Semester, Spring First Half of Semester*

### **PED 2440 - Health and Lifestyle Coaching**

**3 cr** If you could change one thing in your life, what would it be? This course will move you forward in a simple, step by step, fail-safe approach toward even more life fulfillment and healthy living, with the assistance of a certified "circle of life coach" and guidebook. Being a part of this group allows you to come up with better ideas to solve roadblocks, provide the motivation to persist with the goals you set for yourself and pursue and attain even bigger dreams. Students will be exposed to the exploding field of "lifestyle coaching."

*Periodically*

### **PED 2450 - Girls on the Run and Track**

**1 cr** This course involves participating in an experiential learning program that is designed for girls 8-13 years of age. The curriculum centers on encouraging making smart, healthy choices and includes training for a 5K (3.1 mile) run/walk. Student Volunteers commit to two after-school meeting days from mid-March to Mid-May. All students interested in healthy adolescent development and physical activity are welcome.

*Spring (Second Half of Semester)*

### **PED 2470 - Seminar in Sports Administration**

**2 cr** This course will investigate current issues in the Sports Administration field and will provide an opportunity for students to have a supervised field experience in Sports Administration consisting of a minimum of 100 hours.

*Prerequisite: PED 1350 and Sophomore standing.*

*Every semester*

### **PED 2810 - Internship in Physical Education**

**1-3 cr** See section on Individualized Educational Experiences.

*Signed contract required at time of registration.*

*Prerequisite: Permission of department chair.*

### **PED 2910 - Independent Study in Physical Education and Athletics**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Permission of department chair.*

### **PED 3040 - Psychological Aspects of Exercise**

**3 cr** This course will review theories and models about physical activity, exercise and fitness behavior from a psychological perspective. Class discussion will center on topics such as: exercise motivation, physical activity and mental health, physical self-perception, determinants of physical activity, adherence to exercise, interventions, and reinforcement of healthy behavior, e.g., self-confidence, self-efficacy. Emphasis will be placed on exercise psychology from a behavioral medicine perspective and on exercise behaviors of people of all ages with a range in physical activity experience.

*This course fulfills the Social and Behavioral Frame of Reference.*

*Periodically*

### **PED 3060 - Women's Health Issues**

**3 cr** This course will explore and analyze current Women's Health Issues. Topics to be considered are: research; and or lack of research related to issues in women's health, medical ethics and women's health; reproductive technology, human sexuality, family planning, euthanasia, consumer health, the right to life, battered women and battered women's syndrome, politics and poverty in women's health issues, the relation of health issues to social issues, teenage pregnancy, drug abuse and alcoholism, nutrition and weight control, emotional health, mental illness, women and ecology, adoption of preventive health behavior, and social change patterns in areas of concern to women's health.

*Spring*

### **PED 3070 - Methods of Teaching Elementary Physical Education**

**4 cr** Principles and methods of physical education for grades K-6 are presented. Skill themes, movement concepts, and developmentally appropriate standards-based lesson and unit planning are emphasized. Laboratory experiences will involve microteaching in area schools.

*Prerequisite: PED 2410 with a minimum grade of "B", minimum pass score on Praxis Core Academic Skills Test for Educators (or equivalent), and permission of instructor.*

*Fall*

### **PED 3110 - Adapted Physical Education**

**3 cr** Examines inclusion of children with disabilities in the physical education class. P.L. 94-142 and other legal mandates will be a major focus of the course. A practicum experience outside of class is included.

*Prerequisite: PED 2410 or and PED 2420 or permission of the instructor.*

*Spring*

### **PED 3120 - Measurement and Evaluation in Physical Education**

**3 cr** This course is designed to apply principles of measurement and evaluation to teaching physical education. A special emphasis will be placed on test construction, selection and administration. Additionally the student will be presented with various assessment tools in the psychomotor, cognitive, and affective domains used in physical education.

*Prerequisite: PED 2410*

*Spring*

### **PED 3130 - Athletic Facility and Event Management**

**3 cr** This course examines the processes of planning, constructing, equipping, and maintaining athletic facilities. The multi-faceted nature of event planning, organizing and management is thoroughly examined in a variety of athletic and recreation settings.

*Prerequisite: PED 1350, junior standing.*

*Spring*

### **PED 3135 - Teaching Individual Sport Skills**

**3 cr** This course presents the teaching and analysis of motor skill performance using several individual sport skills. Students will learn and apply the principles of planning, progression, lesson organization, and the application of various teaching approaches to the following activities, including but not limited to: snowshoeing, bowling, geocaching, First Tee youth golf, and tennis. Four off-campus meetings required for bowling and golf activities.

*Prerequisite: PED 2410*

*Fee \$30.00*

*Spring*

### **PED 3140 - Methods of Teaching Secondary Physical Education**

**4 cr** Principles and methods of teaching physical education for grades 7-12 are presented. Characteristics of learners, effective teaching techniques, unit and lesson planning, and implementation of lessons are emphasized. Laboratory experiences will involve microteaching in area schools.

*Prerequisite: PED 2410 with a minimum grade of "B", minimum pass score for Praxis Core Academic Skills Test for Educators (or equivalent), and permission of the instructor.*

*Spring*

### **PED 3150 - Methods of Teaching Health Education**

**3 cr** This course is designed to provide students with principles, methods, and techniques that may be utilized for health promotion in schools and in community health settings. Students will have the opportunity to analyze fundamental concepts and skills that are essential in the development and success of school health programs. Students will develop different modes of health education presentation and evaluation; a major component of the latter will be the development of creative lesson plan/presentation formats directed at various ages in various settings.

*Fall*

### **PED 3160 - Legal and Ethical Principles in Sport**

**3 cr** This course examines legal and ethical concepts related to sports administration, including participation and eligibility issues; constitutional due process; Title IX and other constitutional amendments; facility, coaching, and employment contracts; and tort law applications to participants and spectators. This course also provides some essential components, concepts, models, and techniques for students to use in managing ethical dilemmas and develop sound ethical practices.

*Prerequisite: PED 1350 or permission of the instructor.*

*Spring*

### **PED 3170 - Seminar in Sports Information Practices**

**3 cr** This course outlines the fundamentals of communicating in a sports environment in a seminar format. The topics include sports information in print and broadcast news, as well as communication in public relations. Principles of sports information including, computer applications and statistical methods in the collegiate and professional levels will be presented.

*Prerequisite: PED 1350 and junior standing.*

*Fall*

### **PED 3210 - Sports Promotion**

**3 cr** The course examines the promotion and marketing of sports activities, organizations and sports equipment. Topics covered are careers in sports marketing, product concepts, promotion of events, broadcast rights and sponsorship programs. Special attention is paid to how sports promotion fits into the sports administration profession.

*Prerequisite: BUS 2230.*

*Fall*

### **PED 3220 - Teaching Net and Racquet Sports**

**3 cr** This course presents the teaching and analysis of racquet, net, and wall games. Students will learn and apply the principles of lesson organization, assessment of motor skills, and the application of various teaching approaches. Emphasis will be placed on planning and applying developmentally appropriate activities for all learners.

*Prerequisite: PED 2410*

*Periodically*

### **PED 3320 - Teaching Team Motor Skills**

**3 cr** This course presents the teaching and analysis of motor skill performance using several sport and game topics. Students will learn and apply the principles of planning, progression, extension, refinement, lesson organization, and the application of tactics and strategy to team play.

*Prerequisite: PED 2410*

*Fall*

### **PED 3821 - Practicum in Sports Administration I**

**1 cr** 50 hours of on-site supervised hands-on experience or other professional development activities in the Sports Administration field. The course will have at least five classroom meetings and/or online meeting requirements throughout the semester. The student will be responsible for regular contact with the instructor and a final debriefing.

*Prerequisite: PED 2470*

*Periodically*

### **PED 3822 - Practicum in Sports Administration II**

**1 cr** 50 hours of on-site supervised hands-on experience or other professional development activities in the Sports Administration field. The course will have at least five classroom meetings and/or online meeting requirements throughout the semester. The student will be responsible for regular contact with the instructor and a final debriefing.

*Prerequisite: PED 2470 and PED 3821*

*Periodically*

### **PED 3900 - Independent Study in Physical Education and Athletics**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of the department chair.*

## **PED 4020 - Applied Nutrition and Weight Control**

**3 cr** Principles of human nutrition, the metabolism of nutrients during rest and exercise modes; the role of carbohydrates, fats, proteins and vitamins during rest and exercise; the role of exercise in the energy balance system for weight control; a study of various fad diets for weight control; and the concepts of overweight and obesity will be studied. An individualized project will be included.

*Prerequisite: BIO 2012 or consent of instructor.*

*Spring*

## **PED 4030 - Organization and Administration of Physical Education and Athletics**

**3 cr** An investigation of the operation and relationship of physical education and athletic programs. Areas of study include budget and finance, equipment and facilities, scheduling, current trends in the professions, intramurals and recreation, career placement, and liability.

*Prerequisite: Permission of instructor.*

*Every semester*

## **PED 4080 - Governance of Sports**

**3 cr** This course examines the purpose and practice of sports governance and how it relates to the administration and management of sports. The course will assess the value and practice of governance for a sport entities including youth sport, high school sport, intercollegiate sport including the NCAA, the Olympic Games, international federations, and professional sports. This course will also cover elements of NCAA regulations, rules interpretations, and enforcement decisions.

*Junior or senior Sports Administration majors*

*Prerequisite: PED 1350*

*Spring*

## **PED 4110 - Strategic Sport Management**

**3 cr** Students assess the strategic management cycle and decision-making processes utilized in considering alternatives, choice and the evaluation of strategy as it applies to sporting organizations. It also includes case study analysis of national and international sport and non-sport organizations. Links between decision-making, leadership, culture and ethical behavior in relation to strategy formulation are also examined. Restrictions: Junior and Senior Sports Administration Majors.

*Prerequisite: PED 1350.*

*Fall*

## **PED 4120 - Advanced Event Management**

**3 cr** This course prepares students to organize and promote grassroots and major sporting events. Students learn about event management and then gain practical experience through event marketing and sponsorship, volunteer recruitment, and event operations.

*Prerequisite: PED 3130.*

## **PED 4610 - The Ethics of Coaching and Leadership**

**3 cr** This course is designed to help future (or current) athletic coaches, physical educators, and athletic administrators understand the concept of ethics as it relates to their everyday duties and responsibilities in sport. The class will involve an in-depth analysis and synthesis of personal and professional ethics as they relate to such topics as: sportsmanship, coach-player relationships, sport rules and regulations, professional conduct, athlete training and



development, financing sport, recruiting, drugs and alcohol usage within sport, and social issues as they relate to sport. Students will engage in lecture, peer discussion, role-playing scenarios, case study reviews, and the development of a personal-professional ethics philosophy regarding themselves as a future (or current) professional in the field of coaching, teaching, or administration of sport.

*Junior standing or permission of instructor*

*Spring*

### **PED 4720 - Seminar in Teaching Physical Education**

**1 cr** The seminar prepares the student for the student teaching experience, supports the student during the experience, and introduces or reviews competencies associated with the role of the professional educator. Preparation of the teacher licensure portfolio is emphasized. Course is offered pass/no pass only.

*Co-requisite: Taken concurrently with PED 4871 and PED 4872.*

*Every semester.*

### **PED 4810 - Internship in Physical Education**

**1-12 cr** See section on Individualized Educational Experiences.

*Signed contract required at time of registration.*

*Prerequisite: Permission of department chair.*

### **PED 4811 - Internship in Sports Administration**

**9-12 cr** 450-600 hours of on-site supervised hands-on experience in the Sports Administration field. In addition to the hours, the student will be responsible for close contact with faculty supervisor, proposal writing, debriefing and professional development.

*Prerequisite: Permission of instructor.*

*Every semester*

### **PED 4820 - Field Experience**

**1-3 cr** An opportunity for the Physical Education Major to have field experience teaching on campus. They will help with the teaching and class management of a skills course.

*Signed contract required at time of registration.*

### **PED 4871 - Directed Student Teaching In Physical Education I**

**6 cr** This course is an opportunity for the student to teach under the guidance of a qualified cooperating teacher and university supervisor. Students seeking teacher licensure in K-12 Physical Education must apply, qualify, and be admitted to student teaching. Course is taken concurrently with PED 4872 and PED 4720. completion of required major courses and GPA, departmental recommendation, professional and intellectual competencies as stated within application requirements.

### **PED 4872 - Directed Student Teaching in Physical Education II**

**6 cr**

### **PED 4900 - Independent Study in Physical Education and Athletics**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

## **PED 4910 - Senior Thesis**

**3 cr** The course is designed to introduce students to research writing and research development in sports medicine including exercise science and athletic training. The formulation of a research proposal will be the primary emphasis. In addition, students present their proposals orally and in poster format.

*Prerequisite: Senior standing and permission of the instructor.*

*Every semester*

## **PED 4920 - Senior Research Project**

**3 cr** This course is designed to complete the research process started in PED 485 Senior Thesis. The student will take the previously developed proposal and bring it to its ultimate conclusion. Inherent in this process is the project's acceptance by the Human Subjects Institutional Review Board, developing an informed consent, data collection, statistical analysis and writing the results, discussion and conclusion of the project. The student will present the project orally and publish the research in the class journal.

*Prerequisite: PED 4910 or currently enrolled.*

*Periodically*

# **Philosophy**

## **PHI 1010 - Introduction to Philosophy**

**3 cr** This course is a study of several major philosophical problems concerning reality, knowledge, and value, and the theories of some of the greatest thinkers on those problems. Topics to be studied include the nature of moral value, human happiness, social justice, the nature of mind, the problem of free will and determinism, our knowledge of the world, the existence of God, the problem of evil, and others. Readings are drawn from the works of such philosophers as Plato, Aristotle, Kant, Locke, and Descartes.

*This course fulfills the World Views Frame of Reference.*

*Every semester*

## **PHI 1020 - Critical Thinking**

**3 cr** An examination of reasoning skills in ordinary language and argument as distinct from the formal techniques of logic.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

## **PHI 1030 - Introduction to Logic**

**3 cr** An examination of the principles of good reasoning through a study of deductive logic, inductive logic, and informal fallacies.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Every semester*

## **PHI 1040 - Introduction to Ethics**

**3 cr** This course is an introduction to philosophical problems about the nature of moral value, conduct, and character. Topics include problems in the nature of moral judgment and moral knowledge, theories of morally right action, and the practice of moral decision-making. Students will study selections from Aristotle, Mill, Kant, Nietzsche, Rawls, etc. *This course fulfills the World Views Frame of Reference.*  
*Fall*

### **PHI 2010 - Comparative Religions**

**3 cr** This course is a study of several major religions, Hinduism, Buddhism, Judaism, Christianity, Islam, and perhaps some African and Native American religious traditions. The philosophies of Taoism and Confucianism will also be considered. Special attention is given to religious ideas about the divine or spirituality, the nature of reality, human nature, and the proper life for humans. *This course fulfills the World Views Frame of Reference.*  
*Prerequisite: Previous course in Philosophy or consent of instructor.*  
*Fall*

### **PHI 2060 - Business Ethics**

**3 cr** This course is an introduction to ethical problems in business. Included is a survey of theories of economic justice and the ethical implications of socialism and capitalism. Central moral problems include problems regarding hiring, firing, reverse discrimination, employer and employee rights and responsibilities, truth in advertising, responsibilities to the environment, and the responsibilities of multi-national conglomerates. *This course fulfills the Social and Behavioral Understanding Frame of Reference.*  
*Periodically*

### **PHI 2110 - Asian Philosophy**

**3 cr** This course is a survey of the major philosophical traditions of Asia, to include Hinduism, Jainism, Buddhism, Confucianism, Taoism, Shinto, and Zen Buddhism. Included is an introduction to their mythology, art, music, and ritual as these exemplify philosophical ideas. *Periodically*

### **PHI 2120 - Social and Political Philosophy**

**3 cr** This course is a study of philosophical problems about society and politics. Problems to be addressed include: What is the nature of a good society? What is the purpose of government? What are justice, equality, and liberty? Thinkers to be studied include Plato, Aquinas, Hobbes, Locke, Rousseau, Mill, Marx, Nozick, and Rawls. *This course fulfills the Social and Behavioral Understanding Frame of Reference.*  
*Periodically*

### **PHI 2740 - Selected Topics in Philosophy**

**1-3 cr** This course allows faculty and students to pursue subjects in philosophy that are treated briefly, or not at all, in the regular philosophy courses. The specific subject of the course will be announced at registration, as well as whether credits from this course will count toward the philosophy minor. Students may take this course more than once. *Periodically*

### **PHI 3011 - History of Philosophy I**

**3 cr** An historical survey of western philosophy from the pre-Socratics to the sixteenth century. Problems and theories in metaphysics, epistemology, ethics, and political philosophy are studied through the writings of the Pre-Socratics,

followed by Plato, Aristotle, the Stoics and Epicureans, St. Augustine, St. Thomas Aquinas, Bacon, and Hobbes.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: Previous course in Philosophy or consent of the instructor.*

*Periodically*

## **PHI 3012 - History of Philosophy II**

**3 cr** A continuation of PHI 3011 from the seventeenth-century to the present. Philosophers studied include Spinoza, Descartes, Leibniz, Locke, Berkeley, Hume, Kant, Hegel, Mill, Nietzsche, Marx, Russell, and Wittgenstein, Quine, and Rorty.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: Previous course in Philosophy or consent of the instructor.*

*Periodically*

## **PHI 3020 - Medical Ethics**

**3 cr** This course is a study of current ethical problems in medicine and health care. Topics include ethical problems about the doctor-patient relationship, problems at the end of life, the beginning of life, and problems concerning the health care system. Specific issues to be discussed may include abortion, euthanasia, new reproductive technologies, the rights and responsibilities of patients, doctors, nurses, and other health care professionals, and justice and the health care system.

*This course fulfills either the Social and Behavioral Understanding Frame of Reference or the World Views Frame of Reference.*

*Spring*

## **PHI 3040 - Philosophy of Mind**

**3 cr** A study of philosophical problems concerning the nature of the mind, including the mind-body problem.

*Prerequisite: previous course in philosophy or consent of instructor.*

## **PHI 3050 - Philosophy of Science**

**3 cr** This course is a survey of philosophical problems in science including the nature of scientific method, scientific law, prediction, and explanation.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Periodically*

## **PHI 3060 - Aesthetics**

**3 cr** Aesthetics, or Philosophy of Art, is an examination of problems and theories of the nature of art and aesthetic value. Problems concern the definition of art, the nature of beauty and aesthetic value, the nature of aesthetic judgments, the relationship between art and morality, and the nature of artistic creativity.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Prerequisite: Previous course in Philosophy or consent of the instructor.*

*Periodically*

## **PHI 3110 - Metaphysics**

**3 cr** This course is an examination of some traditional and current problems in metaphysics, including theories of the nature of reality- materialism, idealism, dualism- the problem of universals, the nature of causality, time and space, and theories of human nature.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite:* Previous course in Philosophy or consent of the instructor.

*Periodically*

### **PHI 3160 - Environmental Ethics**

**3 cr** This course is a survey of ethical issues involving humans and the natural environment. Central problems are: Of what moral value is, or what moral responsibilities do humans have toward, the natural world? Animals? Future generations? Are the ethical issues at odds with economic issues? Current ethical theories or movements to be studied include the Land Ethic, Deep Ecology, Biocentrism, and Ecofeminism.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Spring, even years*

### **PHI 3170 - Western Faiths**

**3 cr** This course is a survey of the three major monotheistic religions of the West: Judaism, Christianity, and Islam. Particular attention will be given to the sects or divisions within Islam.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite:* PHI 2010 Comparative Religions is recommended, though not required.

*Spring*

### **PHI 3220 - Theory of Knowledge**

**3 cr** A study of philosophical problems about the nature of knowledge, belief, and truth.

*Prerequisite:* previous course in philosophy or consent of instructor.

### **PHI 4510 - Seminar in Philosophy**

**3 cr** An opportunity for faculty and advanced students in philosophy to concentrate on specific figures, issues, or periods in philosophy. Examples are Contemporary Philosophy, Seminar in Plato, Seminar in Existentialism, or Philosophy in Literature.

*Prerequisite:* previous course in philosophy or consent of instructor.

### **PHI 4620 - Senior Thesis in Philosophy**

**3 cr** An opportunity for senior students in philosophy to study intensively on a philosophical subject in conjunction with a philosophy faculty member.

*Prerequisite:* senior student in philosophy.

## **Physics**

### **PHY 1051 - General Physics I**

**4 cr** An introduction to the concepts and theories of physics. Topics include forces, motion and energy. A weekly laboratory section explores concepts and the role of experimentation in science. May not be taken for credit if credit has been received for PHY 2110 or equivalent.

Lecture and lab.

*This course fulfills the Scientific & Mathematical Understanding Frame of Reference*

*Lab fee \$50*

*Fall*

## **PHY 1052 - General Physics II**

**4 cr** A continuation of PHY 1051. Topics include electricity, magnetism, light and modern physics. May not be taken for credit if credit has been received for PHY 2210.

Lecture and lab.

*Prerequisite: PHY 1051*

*Lab fee \$50*

## **PHY 1110 - Introduction to Astronomy**

**3 cr** Planets, stars, and other celestial bodies; the history and methods of astronomy; the theory of relativity; the origin and evolution of the universe. Focuses on scientific procedure, the necessity of rational thinking in problem solving, and the limitations of science.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Periodically*

## **PHY 1140 - Astronomy: Exploring the Universe**

**4 cr** An exploration of our Universe, beginning with the creation of the Universe and covering all its parts such as galaxies, stars, black holes, planets, comets, asteroids, and life. Telescopes and space travel, tools used to explore our Universe, will also be covered. The scientific process and the ability to communicate scientific ideas will be emphasized. Lab activities include day and night time observations of the sky.

Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab fee \$50.*

*Periodically*

## **PHY 1150 - Physics for Elementary Teachers**

**4 cr** This course is designed especially for pre-service elementary teachers. We focus on physics topics, demonstrations and activities appropriate for K-6 students. The material is chosen based on the Next Generation Science Standards. Both mastering the topics and learning how to present them effectively to elementary students will be emphasized. We will also explore the merit and role of science education.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab fee \$50*

*Periodically*

## **PHY 2110 - Physics I**

**4 cr** An introduction to the concepts and theories of physics for science majors. Topics include forces, motion, and energy. A weekly laboratory section explores concepts and the role of experimentation in science. This course will present and use elementary calculus in order to solve physics problems. University level pre-calculus or calculus is recommended but not required. May not be taken for credit if credit has been received for PHY 1051.

Lecture and lab.

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Lab fee \$50.*

*Fall*

## **PHY 2210 - Physics II**

**4 cr** A continuation of PHY 2110. Topics include electricity, magnetism, light and modern physics. May not be taken for credit if credit has been received for PHY 1052.

Lecture and lab.

*Prerequisite: PHY 2110*

*Lab fee \$50.*

*Spring*

## **PHY 2810 - Internship in Physics**

**1-12 cr** *Signed contract required at time of registration.*

## **PHY 2910 - Independent Study**

**1-3 cr** The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. The number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned.

*Prerequisite: At least four prior credits in Physics.*

## **PHY 3810 - Internship in Physics**

**1-12 cr** *Signed contract required at time of registration.*

## **PHY 4810 - Internship in Physics**

**1-12 cr** *Signed contract required at time of registration.*

## **PHY 4910 - Independent Study**

**1-3 cr** The student must initiate the application with a written proposal to the instructor with whom the student wishes to work. The number of credits to be earned must be stated. The original proposal, signed by the student and the instructor, must be submitted to the department chair for approval. This process must be completed prior to registration for the semester in which credit is to be earned.

*Signed contract prior to registration.*

*Prerequisite: At least eight prior credits in Physics.*

## **Political Science**

*Other relevant courses may be found under Economics, Environmental Studies, Geography, Global Studies, and History.*

## **POS 1020 - American Politics and Government**

**3 cr** Various approaches to the study of politics and some of its fundamental issues, such as the authority and function of the state, the rights of the individual and the pursuit of justice, equality, life, liberty, and happiness. Emphasis on American politics and government.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.  
Every semester*

### **POS 1030 - Comparative Politics and Government**

**3 cr** An introduction to the study of politics by comparing different types of political regimes, with particular attention to the politics and daily lives of their peoples.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.  
Every semester*

### **POS 2040 - International Relations**

**3 cr** An examination of relations between the nations and peoples of the world, with attention to the various theoretical attempts to make sense of international relations; conflicting interpretations of the modern nation-state system; the post World War II world; East-West conflict, North-South conflict; the causes of war; and the search for global and economic order.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.  
Prerequisite: Sophomore standing or above or consent of instructor.  
Spring*

### **POS 2210 - Political Ideologies**

**3 cr** This course will survey a wide variety of modern and contemporary ideologies, and analyze several in greater depth. These will include Marxism-Communism, Socialism, Liberalism, Capitalism, Libertarianism, Feminism, Nazism-Fascism, Environmentalism, Anarchism, Theocratic Utopianism and several types of Multi-culturalism.

*Periodically*

### **POS 2310 - Environmental Politics**

**3 cr** This course will analyze various aspects of environmental policy making in both the U.S. and internationally. It will begin with various philosophical and ideological perspectives concerning the relationship between man and nature. There will be consideration of how environmental issues interact with various other types of societal goals, particularly economic prosperity, security and freedom. The class will study aspects of the environmental policy process and its outcomes in the U.S. by the use of a number of case studies relevant to particular policy problems (including air and water pollution; biological engineering; and energy). It will also be a consideration of the international regimes to deal with these issues, and the relationship between environmental and economic development issues.

*Fall, odd years*

### **POS 2320 - U.S. Campaigns and Elections**

**3 cr** This course concentrates on this year's presidential election process. We consider the institutions and processes of the electoral systems in the United States at the national, state and local levels. We analyze the effect of the structure of the electoral system itself, as well as the impact of political parties, interest groups, the media, campaign financing, political culture and ideology. And we examine how well the U.S. electoral system supports the principles and goals of democracy.

*Fall 2012, Fall 2016*

### **POS 2510 - Research Methods**

**3 cr** This course provides students with a broad understanding of how research is conducted in social science disciplines, focusing on the discipline of Political Science. Students will become aware of a wide array of research



tools available to address questions in the study of politics and government. More importantly, they will learn how to select the appropriate research tools based on the nature of the research question being addressed. The course begins with the study of how to frame research questions, formulate hypotheses, and then test hypotheses. Next, we explore the nature of data (quantitative and qualitative) and approaches in the rigorous collection of data. We also review many existing data sources for secondary analysis.

*Fall, even years*

### **POS 2610 - Current Issues in U.S Politics**

**3 cr** This course is an analysis of a number of important and controversial issues within the contemporary American political system from the perspectives of underlying ideologies, the impact of institutional structures, and the influence of various interest groups. We ask: How are political interests defined? Whose interests are served? Who decides?

*Spring, odd years*

### **POS 2910 - Independent Study**

**1-3 cr** Available by arrangement with the instructor and department chair. A student-faculty contract must be executed prior to registration.

*Signed contract required at time of registration.*

### **POS 3221 - Political Philosophy I**

**3 cr** What is justice? the good life? and how can one live a good life? These are among the many questions raised by this course which is taught in a seminar format that encourages student participation, leadership and discussion. Plato's Republic is the main text that is read as a way of contrasting classical and modern political philosophies and seeing with fresh eyes the present human condition and the many questions and problems it poses.

*This course fulfills the World Views Frame of Reference.*

*Fall, odd years*

### **POS 3222 - Political Philosophy II**

**3 cr** The study of modern political thinkers such as Machiavelli, Hobbes, Locke, Rousseau, Burke, Mill and Marx, in order to understand their influence on current perceptions of the human condition. Attention will also be given to the fundamental disagreement between modern and classical political philosophies as a way by which new perspectives on current political issues may be reached.

*This course fulfills the World Views Frame of Reference.*

*Spring, even years*

### **POS 3240 - Cases in Civil Liberties**

**3 cr** This course is an analysis of Supreme Court decisions in the general area of Civil Liberties and Civil Rights, particularly concentrating on the rights of freedom of religion, expression, and assembly; the rights of privacy; and the rights related to equal protection of the laws (such as non-discrimination in voting, employment, education, housing, etc.). We will be employing a combination of the case method (analysis of actual Supreme Court decisions) and a consideration of the political, socio-economic, and cultural context in which the issues are formulated, and decisions are made and implemented.

*Prerequisite: POS 1020.*

*Periodically*

### **POS 3250 - International Organizations**

**3 cr** This course will be an analysis of the purposes, structures, and processes of a wide variety of both governmental and non-governmental international organizations, with a particular emphasis on the reasons for the growing significance of such organizations in the contemporary international community. A major focus will be the United Nations and its evolving roles in the post-Cold War era. We will use the issue of the relationship between human rights and national interests as a perspective for organizing our analysis of the development of international organizations as possible alternatives to, or adjuncts of, the sovereign nation state.

*Prerequisite: POS 1030 or POS 2040.*

*Periodically*

### **POS 3260 - Middle Eastern Politics and Government**

**3 cr** The Middle East has been an important region of the world since the beginning of recorded history. Many of the oldest civilizations arose in this area and made significant contributions to the development of world culture. Today, the region continues to have great significance to the larger world community, culturally, economically, and strategically. This course will be a consideration of the political systems of a number of Middle Eastern and North African nations (from Iraq to Morocco), with special attention not only to the government structures and processes, but also the culture and socio-economic context in which these political systems exist. There will be an emphasis on the dynamic interaction between religious and secular authority, and between tradition and modernity, and how these issues have particularly influenced the development of many of these nations.

*Fall semester, alternate years Fall, odd years*

### **POS 3320 - European Politics and Government**

**3 cr** In this course, students examine a number of political systems of the European continent. We consider the governmental structures and political processes of Great Britain, France, Germany, Italy and Russia in detail. Then we briefly survey some elements of the post-Communist regimes in Eastern Europe, and conclude with a consideration of the significance and impact of the European Union.

*Fall 2010, Fall 2013*

### **POS 3420 - Congress and The Presidency**

**3 cr** This course is an in-depth exploration of the legislative and executive branches of the U.S. government. The course is composed of three parts. The first part explores the general makeup and processes of Congress, the rules and committee structures of each chamber, and how committee rule and party organization shape the work of the chambers. The second part of the course explores the organization of the White House, the Cabinet, and the executive bureaucracy. Lastly, we explore how Congress and the President cooperate and compete in social policy, economic policy, and national security. In this exploration, the course highlights the policy preferences, ideological goals, political ramifications, and power motivations that shape cooperation and competition among the two branches in the course of governing.

*Fall, odd years*

### **POS 3510 - Quantitative Analysis**

**3 cr** This course provides students with the knowledge and skills to conduct quantitative research in Political Science. Students will work with SPSS software to perform data analysis, learning how to produce and interpret statistical procedures. The scope of the class proceeds from understanding variability in frequency distributions and measures of central tendency to multi-variate and logistic regression analysis.

*Prerequisite: POS 2510 and MAT 2021*

*Spring, odd years*

### **POS 3710 - Topics in Political Science**

**3 cr** An in-depth exploration of the major topics in political science and public policy. Topics will be announced prior to each time the course is taught; and described in the registration bulletin.

*Prerequisite: Sophomore standing or above; or consent of instructor.*

*Spring, even years*

### **POS 3910 - Independent Study**

**1-3 cr** Available by arrangement with the instructor and department chair. A student-faculty contract must be executed prior to registration.

*Signed contract required at time of registration.*

### **POS 4010 - US Foreign Policy**

**3 cr** This course will be an analysis of US foreign policy in terms of its historical, and theoretical roots; the institutional policy-making structure; domestic and international influences on policy-making; and enduring and emerging issues. There will be particular emphasis on the impact on US foreign policy of the end of the Cold War, and globalization. The class will consider questions, such as: Is there a "new world order" developing in the twenty-first century? What will be, or should be, the role of the US in this order? What are likely to be the major US foreign policy issues of the next several decades? How will the evolution of the role of international institutions affect US foreign policy goals and strategies?

*Spring 2013, Spring 2016*

### **POS 4610 - Senior Seminar in Political Science**

**3 cr** This research seminar allows students to develop and complete a research project in Political Science that evidences appropriate methodology and substantive knowledge. The completed project will be presented in both oral and written form.

*Prerequisite: POS 3510 - Quantitative Analysis.*

*Spring*

### **POS 4810 - Internship in Political Science**

**1-12 cr** Supervised field experience in approved settings may be arranged by a written contract between the student, advisor, and Political Science coordinator. Students are expected to have adequate preparation in the discipline of Political Science. Signed contract required at time of registration.

### **POS 4910 - Independent Study**

**1-3 cr** Available by arrangement with the instructor and department chair. A student-faculty contract must be executed prior to registration. Signed contract required at time of registration.

## **Psychology**

### **PSY 1012 - Introduction to Psychological Science**

**3 cr** A survey of a wide variety of topics studied by psychological scientists. The course objective is to introduce students to the terms, concepts and methods of psychological science.

**This course is equivalent to Introduction to Psychology; students will not receive credit for both courses.**

*This course fulfills the Social and Behavioral Understanding Frame of Reference.  
Every semester*

### **PSY 1030 - Psychology of Consciousness**

**3 cr** This course examines various ways that people have constructed the world in which they live. Topics will include sleep, dreams, meditation, biofeedback, hypnosis, false memories, special states of awareness, and attributional styles.  
*Periodically*

### **PSY 1050 - Human Growth and Development**

**3 cr** A survey of human developmental psychology from the prenatal period to late adulthood. The major focus is on theoretical and practical implications of developmental research for cognitive, personality and social development. Special attention will be given to interactions between maturation and experience.  
*Every semester*

### **PSY 2040 - Social Psychology**

**3 cr** Scientific study of interpersonal behavior. Topics typically discussed are attitude change and social influence, aggression and violence, impression formation, group processes, conformity and attraction.  
*This course fulfills the Social and Behavioral Understanding Frame of Reference.  
Every semester*

### **PSY 2110 - Educational Psychology**

**3 cr** An examination of the principles and theories of learning as they apply to the developmental changes of the child. Special emphasis will be placed on how the child learns and ways of producing optimal conditions for childhood learning.  
*Every semester*

### **PSY 2150 - Police Psychology**

**3 cr** This course introduces psychological theory and practice as it relates to specific problems of police and correctional officers. Topics covered include: crisis intervention, stress and its management, interviewing and interrogation, human relations.  
*Spring*

### **PSY 2170 - Drugs and Behavior**

**3 cr** An inquiry into the natural functioning of the brain's neurotransmitters and the impact of psychoactive drugs on mood, behavior, cognition, and perception. The major classes of recreational drugs such as stimulants, depressants, opiates, and psychedelics will be explored along with the major classes of medicinal drugs such as anti-psychotics, anti-depressants, and anxiolytics.  
*This course fulfills the Social and Behavioral Understanding Frame of Reference.  
Fall*

### **PSY 2210 - Applied Behavior Analysis I**

**3 cr** This is a service-learning course. As such, students will learn the content of the course while engaged in service in local schools. The course examines the principles of operant, respondent, and social learning. Emphasis is directed at

the application of these principles toward classroom management, behavior change, and self-control.

*Fall*

### **PSY 2212 - Applied Behavior Analysis II**

**3 cr** This is a service-learning course that extends the development of students' knowledge of modern learning theory through application of this theory in local schools. Students increase understanding of course content as they provide service in the community.

*Spring*

### **PSY 2230 - Industrial/Organizational Psychology**

**3 cr** An introduction to psychology applied to work and organizations. Topics include personnel screening and selection, performance, appraisal, leadership, motivation, job satisfaction and career development.

*Periodically*

### **PSY 2280 - Positive Psychology**

**3 cr** This course explores the meaning of work and play in people's lives from the standpoint of positive psychology. This subfield of psychology focuses on helping people understand and enhance their strengths and virtues so that they may lead fulfilling lives. Rather than the traditional psychological emphasis on mental health problems, positive psychology is about helping normal people become happier, more productive, and cultivate optimism. We explore the values people hold for work and play, while considering the challenges and rewards of "the good life."

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Fall*

### **PSY 2810 - Internship in Psychology**

**1-12 cr** Signed contract required at time of registration.

### **PSY 2820 - Careers in Psychology**

**3 cr** A review of career options in psychology. Students will learn job hunting and resume writing skills along with approaches to choosing and applying to graduate programs in psychology. Students will be expected to realistically evaluate their interests, abilities, values, career, and life goals.

### **PSY 2900 - Independent Study**

**1-3 cr** Available by arrangement with department chair.

*Signed contract required at time of registration.*

### **PSY 3010 - Theories of Personality**

**3 cr** Examination of individual differences in human behavior. Heavy emphasis is placed on research findings pertaining to the learning, experiential and cognitive factors contributing to personality development.

*Every semester*

### **PSY 3040 - Cognitive Psychology**

**3 cr** Examines research on topics central to cognitive science: perception, attention, memory, thought and language. A cognitive lab will provide hands-on demonstrations of important experiments in cognitive psychology.  
*Every semester*

### **PSY 3060 - Child Psychopathology**

**3 cr** An analysis of theory, research, and therapy of psychological disorders of children, including early infantile autism, neurophysiological developmental problems, learning difficulties, developmental retardation, juvenile delinquency, and psycho-physiological disorders.  
*Fall*

### **PSY 3070 - Abnormal Psychology**

**3 cr** The description and classification of deviant behaviors. The continuity between normal and varying degrees of maladjustment is stressed.  
*Every semester*

### **PSY 3130 - Health Psychology**

**3 cr** Examination of the biopsychosocial model of health and disease. Topics will include: overviews of behavioral interventions and biofeedback, stress and stress management, pain and pain management, cancer, asthma, weight control and obesity, eating disorders and adherence to medical regimens.  
*This course fulfills the Social and Behavioral Understanding Frame of Reference.*  
*Spring*

### **PSY 3150 - Cognitive Development**

**3 cr** Examines systematic research and theory relating to issues in children's thinking, providing critical appraisals of Piagetian and information processing approaches to perception, language, memory, intelligence and individual differences in thought due to cognitive style, experience and gender.  
*Spring, odd years*

### **PSY 3151 - Psychological Research I**

**4 cr** Introduction to the scientific method as applied to behavior. Emphasis is on the development of scientific attitudes as well as the development of the basic research skills of data collection, analysis and interpretation. **This course fulfills the Gen Ed computing requirement for Psychology majors.**

*Prerequisite: PSY 1012.*  
*Spring*

### **PSY 3152 - Psychological Research II**

**4 cr** Fosters further development of scientific attitudes and research skills. Student research conducted in PSY 3151 is refined and prepared for publication. **This course fulfills the Gen Ed computing requirement for Psychology majors.**  
*Prerequisite: PSY 3151.*  
*Fall*

### **PSY 3160 - Criminal Behavior**

**3 cr** An examination of the physiological, cognitive and learning factors involved in criminal behavior from a psychological perspective.

*Fall*

### **PSY 3220 - Juvenile Delinquency**

**3 cr** A social systems approach to the explanation, treatment and control of delinquent behavior. Research and theory from psychology, sociology and anthropology will be emphasized.

*Spring*

### **PSY 3240 - Social Development**

**3 cr** Examines systematic research and theory relating to issues in social and personality development, in particular: the development of conceptions of the self, achievement, aggression, altruism and moral development, sex differences and differential effects of familial and extra familial influences.

*Spring, even years*

### **PSY 3265 - Child and Adolescent Development**

**3 cr** This course surveys the major areas of the psychology of child and adolescent development, emphasizing an understanding of the important methods, terms, theories, and findings in the field of child development.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Every semester*

### **PSY 3410 - Biopsychology**

**3 cr** Biopsychology is the study of behavior as driven by the biology of the brain and the structure of the nervous system. Two main objectives of the course are: 1) to appreciate the complexity of sensory capabilities and abilities such as memory, judgment, coordination, and planning, and 2) to gain awareness of the spectrum of brain diseases and consequences of traumatic brain injury.

*Prerequisite:*

*Every semester*

### **PSY 3810 - Internship in Psychology**

**1-12 cr** *Signed contract required at time of registration.*

### **PSY 3820 - Psychology Proctorship**

**3 cr** Psychology proctors assume responsibility, under supervision, for the progress of students in psychology courses at various levels or serve as a laboratory assistant in an upper level psychology course.

*Prerequisite: Permission of the department coordinator of proctorship.*

### **PSY 3900 - Independent Study**

**1-3 cr** Available by arrangement with department chair.

*Signed contract required at time of registration.*

### **PSY 4020 - Psychological Testing**

**3 cr** Introduction to the theory, development and utility of psychological testing with emphasis on the administration and interpretation of intelligence tests.

*Prerequisite: Basic course in Statistics or consent of the instructor.*

*Spring*

### **PSY 4030 - Language and Thought**

**3 cr** An examination of the “higher” cognitive capacities of humans and other primates. Topics related to language will include speech production, speech recognition, reading and an analysis of the syntactic skills of children and chimpanzees. Topics related to thought will include planning, decision making, problem solving and reasoning.

*Fall*

### **PSY 4050 - Nature and Nurture**

**3 cr** This course engages the student in the classic Nature versus Nurture debate in developmental psychology. Students will read classic and contemporary texts and evaluate the relative importance of genetics and environment in the development of children.

*Spring, odd years.*

### **PSY 4060 - Psychology and Law**

**3 cr** Examines psychological theory and research as they relate to the judicial process. Topics covered include insanity, mental competence, eyewitness testimony, and jury decision making.

*Prerequisite: PSY 1012.*

*Spring*

### **PSY 4070 - Correctional Psychology**

**3 cr** Examines the prison environment and the effectiveness of punishment, treatment and rehabilitation from a psychological perspective.

*Fall*

### **PSY 4120 - History of Psychology**

**3 cr** This course examines the historical trends that have contributed to the growth of psychology. Emphasis is placed upon the current states of the discipline as the context for an examination of historical issues.

*Prerequisite: 9 credits in PSY courses.*

*Periodically*

### **PSY 4230 - Psychology of Rape**

**3 cr** This course examines the crime of rape from a psychological and legal perspective. Topics include: why rape occurs, becoming a survivor of rape, whether rapists can be rehabilitated, serial rapists, prison rape, male victims of rape, and legal reform.

*Fall*

### **PSY 4320 - Advanced Research**

**3 cr** This course is designed for students who would like to conduct an intensive research project under the close supervision and guidance of the psychology faculty. Students will be responsible for data collection, analysis,



interpretation, and oral presentation at a national or regional research conference.

*Spring*

### **PSY 4421 - Psychology Practicum I**

**3 cr** In this course students will operationalize acquired skills, principles, and concepts in psychology and education. Students will function in a professional capacity in the delivery of psychological services in a public school setting under the supervision of a certified school psychologist in the state of Vermont. Students will be involved in assessment, consultation, and intervention activities, with the primary target population being school-aged children. Students must commit to participation over two semesters and complete both Psychology Practicum I and II.

*Prerequisite: PSY 4020 , and permission of instructor*

*Fall*

### **PSY 4422 - Psychology Practicum II**

**3 cr** This course is a continuation of Psychology Practicum I in which students operationalize acquired skills, principles, and concepts in psychology and education. Students will function in a professional capacity in the delivery of psychological services in a public school setting under the supervision of a certified school psychologist in the state of Vermont. Students will be involved in assessment, consultation, and intervention activities, with the primary target being school-aged children. Students must commit to participation over two semesters and complete both Psychology Practicum I and II.

*Prerequisite: PSY 4421 and permission of the instructor*

*Spring*

### **PSY 4740 - Readings in Psychology**

**3 cr** Discussions of contemporary readings focusing on construct systems and adaptation to modern society. Representative authors include Tim O'Brien, Loren Eiseley, Peter Matthiessen, Carlos Castaneda, Lynn Andrews, J.A. Swan, Jacob Bronowski and Jerome Bruner.

*Periodically*

### **PSY 4760 - Seminar in Psychology**

**3 cr** Seminars designed to develop knowledge or skills through intensive readings, discussions, and projects in areas of psychology of special interest to a small group of students.

*Prerequisite: PSY 1012.*

### **PSY 4810 - Internship in Psychology**

**1-12 cr** *Permission required. Signed contract required at time of registration.*

### **PSY 4900 - Independent Study**

**1-3 cr** Available by arrangement with department chair. Signed contract required at time of registration.

### **PSY 4915 - Senior Thesis**

**3 cr** This course provides opportunities for advanced work on a topic of the student's choice which will lead to a written thesis.

*Prerequisite: permission of the department chair.*

## **PSY 4920 - Honors Thesis**

**3 cr** Involves continuing work on the honors student's thesis.

*Prerequisite:* Acceptance into the Honors program.

## **Science**

*Other relevant courses may be found under Biology, Chemistry, Geology, and Physics.*

### **SCI 1050 - The Science of Food**

**4 cr** In this course students learn about the science of food and cooking. Topics include the production, preparation and consumption of meat, bread, cheese, vegetables, fruits, spices, and beverages, such as coffee and beer. Nutrition, metabolism, and health concerns related to each of the food classes will also be discussed. Laboratory exercises include the preparation, analysis and consumption of various food items.

lecture and lab

*This course fulfills the Scientific and Mathematical Understanding Frame of Reference.*

*Fee \$20*

### **SCI 1220 - Science and Sustainability**

**3 cr** Sustainability is a broad buzzword that seeks to redirect our view of man's use of Earth's resources to practices that will prolong or maintain their availability. For humans to live sustainability, the Earth's resources must be used at a rate at which they can be replenished. However, there is now clear scientific evidence that humanity is living unsustainably, and that an unprecedented collective effort is needed to return human use of natural resources to within sustainable limits. This course explores what science has to offer as we consider mankind's needs for energy, food and raw materials to support a growing population and nation building. Global problems will be balanced with a discussion of local issues that are key to the success of Vermont, New England and America. This course is intended for non-science majors but majors are welcome.

*Periodically*

### **SCI 1230 - Pathways to Science**

**1 cr** Pathways to Science is a broad spectrum science course that explores a wide variety of science topics in many different areas of science. Throughout this course students will learn skills needed to succeed in science. The course is geared toward first year and sophomore level students by aiming to provide a solid base of science terminology and principles. Pathways to Science is an introduction in how to succeed in science, how to initiate a research project, and how to get through the first two years of a science program. Students will identify future goals, career objectives, and put together a plan for graduation.

*Biology, Ecological Studies, Environmental Science, and Geology majors.*

*Pass/No pass only.*

*Spring*

### **SCI 2100 - Science Colloquium**

**1 cr** Visiting scientists, department faculty, Castleton students, and scientists in the workforce will give presentations about current scientific research and careers in science. Students are given an opportunity to interact with the invited speakers and strengthen their personal scientific network. This science research seminar is open to any Natural Sciences major or minor (BIO, CHE, EXS, GEY, HLT, ENV) and is meant to introduce students to a wide range of current research areas and potential careers in science. This course is repeatable for credit.

*Pass/No pass only.*

*Prerequisite: Students enrolled in a major or minor offered by the Natural Sciences Department or permission of the instructor.*

*Fall*

## **SCI 2210 - Introduction to Geographic Information Systems**

**3 or 4 cr** (also listed as GEO 2210)

This course is designed to introduce students to the basic concepts of modern geographic information systems (GIS). The class will consist of lectures, discussions, readings, demonstrations, and hands-on training exercises using ESRI's GIS software. This will give students experience in defining spatial problems and solutions, organizing and locating geographic data, manipulating data for display, and map creation and use of a desktop GIS. Students will be expected to use what they have learned to develop a final GIS project. **This course fulfills the Gen Ed computing requirement at the Bachelor's level.**

*Lab fee \$40.*

*Spring, even years*

## **Sociology**

*Other relevant courses may be found under Anthropology, Criminal Justice, Geography, Psychology, and Social Work.*

### **SOC 1010 - Introduction to Sociology**

**3 cr** A systematic introduction to the study of social behavior and social organization. The major conceptual tools of sociology are used to explore the structure, processes, and content of social action; to provide insight into the regularity and diversity of human social behavior.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Every semester*

### **SOC 1030 - Social Problems**

**3 cr** An examination of such problems as population, pollution, poverty, crime, and racism as they exist in contemporary American society.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Every semester*

### **SOC 2040 - Race, Ethnicity, Class and Gender**

**3 cr** An exploration of the historical and contemporary roots for discrimination (especially on the institutional level) on the basis of race, ethnicity, class, and gender. This course examines issues such as culture, identity, and oppression.

*Prerequisite: SOC 1010 or consent of instructor.*

*Every semester*

### **SOC 2080 - Thinking Bodies**

**3 cr** *Crosslisted as WGS 2080*

An interdisciplinary study of the ways in which society thinks about bodies in relation to social locations. Students examine the various ways in which bodies are socially constructed, disciplined, and assigned meanings based on race, class, gender, sexuality, nationality, age, and disability. This course encourages students to consider experiences of embodiment from sociological and feminist perspectives.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.  
Periodically*

### **SOC 2130 - The Community in American Society**

**3 cr** Examination of the structure and functions of the community within the framework of the rural-urban continuum. Critical analysis of representative institutions, formal and informal associations, and the impact of change on community organizations.

*Prerequisite: SOC 1010 or consent of instructor.*

*Fall*

### **SOC 2170 - Gender Studies**

**3 cr** This course will provide an examination of the ways in which gender affects the personal and social experiences of women and men. Some of the topics to be addressed are historical perspectives, gender socialization, interpersonal relationships, sexuality and sexual orientation, power dynamics, and the roles performed by women and men in major social institutions.

*Fall*

### **SOC 2210 - Deviant Behavior**

**3 cr** An examination of theories of etiology and distribution of deviant behavior.

*Prerequisite: SOC 1010 or consent of instructor.*

*Spring*

### **SOC 2230 - Death And Dying**

**3 cr** An examination of the changing response to death and dying from the personal, familial, instructional, historical and societal perspectives with examination of the development of new attitudes, approaches and programs to deal with the issue.

*Fall*

### **SOC 2240 - The Changing Family**

**3 cr** The changing structure and functions of the American Family are analyzed from a variety of different perspectives including premarital and marital roles, parent-child interaction, and the termination of the marital relationship.

*Prerequisite: SOC 1010 or consent of instructor.*

*Spring*

### **SOC 2260 - Demographics and Diversity**

**3 cr** This course will identify the major demographic trends in the United States. The course will utilize a demographic perspective to examine the following issues: birth rates/pregnancy rates, resegregation in public schools, school drop out rates/graduation rates, prison population/recidivism rates, divorce, poverty, access to healthcare, life expectancy, Social Security, Medicare/Medicaid, and long-term care.

*Prerequisite: SOC 1010, ANT 1010 or consent of instructor.*

*Spring*

### **SOC 2710 - Selected Topics in Sociology**

**3 cr** Specialized study in Sociology with specific topics to be announced prior to each semester. Course offerings will be determined by student demand and faculty availability. Specific topics may include: countercultures, globalization, business, the military, construction of the other, oral history, qualitative methods.

*Prerequisite: SOC 1010.*

*Periodically*

### **SOC 2900 - Independent Study**

**1-3 cr** Available by arrangement with coordinator.

*Signed contract required at time of registration.*

### **SOC 3070 - Medical Sociology and Mental Illness**

**3 cr** A critical analysis of health, illness, and mental health, environmental and occupational health care systems, the health care work force, social movements, and social change in the field of health and mental health care.

*Prerequisite: SOC 1010 or consent of instructor.*

*Fall*

### **SOC 3120 - Sociology of Education**

**3 cr** This course explores the ways in which the educational system reproduces social class through such means as tracking in schools, unequal distribution of funding for schools, and the favoring of certain groups in the classroom and educational system on the basis of such factors as race, ethnicity, and gender.

*Prerequisite: SOC 1010 or consent of instructor.*

*Spring*

### **SOC 3140 - Sociology of Popular Music**

**3 cr** A sociological analysis of the origins, evolution, and place of popular music forms in modern societies, with emphasis on the American experience. Special attention is paid to the dynamic interplay between popular cultural (emergent) and mass cultural (commodified) forms of music—especially soul, jazz, rhythm and blues, rock, punk, reggae, and rap—as well as the social conditions and subcultures from which such music arises.

*Prerequisite: SOC 1010 or consent of instructor.*

*Periodically*

### **SOC 3150 - Sport And Society**

**3 cr** An examination of current issues in the sociology of sport, focusing on how the institution of sport is a microcosm of society and how it provides insights into a society's national psyche, economic, and political systems, social problems, international relations, and issues of social change. Applying the theories and methods of sociology to the analysis of sport, the course examines the relationship between sport, culture, and society.

*Prerequisite: SOC 1010 or consent of instructor.*

*Periodically*

### **SOC 3160 - Anthropology of Religion**

**3 cr** This course offers a cross cultural and sociological examination of the function, meaning, and evolutionary significance of religious symbols and practices in human societies. An examination of the origin and evolution of spiritual or supernatural cultures— including animism, magic, witchcraft, myth, and theism— will provide a historical and cross cultural perspective on the varieties of religious experience.

*Prerequisite: SOC 1010, or ANT 1010, or consent of instructor.  
Periodically*

### **SOC 3210 - Criminology**

**3 cr** An interdisciplinary study of the causes of crime and criminal behavior, with particular emphasis on sociological perspectives. Classical through contemporary criminological theories will be examined, as well as patterns and varieties of crime.

*Prerequisite: SOC 1010 or consent of instructor.*

*Spring*

### **SOC 3220 - Social Movements of The 1960's**

**3 cr** A study of the significant social movements of this decade of rapid social change. Analysis will be made of how social movements such as civil rights and the Anti-war movement drew upon cultural, intellectual and political currents of the time. SOC 1010 or consent of instructor.

*Fall*

### **SOC 3310 - Community Action Seminar**

**3 cr** In this seminar, students will become actively engaged in the process of building strong communities. By employing service-learning techniques, students will implement and carry out a community project that responds to the needs of the people of the community, and through this process of community organization, students will be invested in the project and be responsible for its outcome. The goals of the seminar are to foster a sense of social responsibility and develop the skills necessary for active participation in a democracy.

*Prerequisite: SOC 2130 or permission of the instructor.*

*Spring*

### **SOC 3610 - Seminar in Advocacy**

**4 cr** Students taking this course are trained to be peer advocates for the CHANGE Initiative (Creating, Honoring, Advocating and Nurturing Gender Equity). Students will attend a weekend long training to learn how to advocate for survivors of sexual assault, relationship violence, stalking, and harassment as well as attending weekly classes. Students are required to staff the PAC phone line and will do programming to change campus culture and decrease problems mentioned above.

*Prerequisite: Application and permission of the instructor.*

*Fall*

### **SOC 3810 - Internship in Sociology**

**1-12 cr** An opportunity for the student to take a position of responsibility in a professional environment under the direction of an on-site supervisor and a faculty member. Not more than 6 credits may be counted toward the 31 credit sociology major.

*Signed contract required at time of registration.*

*Prerequisite: Permission of the coordinator.*

### **SOC 3820 - Sociology Proctorship**

**3 cr** Sociology proctors assume responsibility, under faculty supervision, for the progress of students in Sociology courses at various levels or serve as laboratory assistants in SOC 3910. May not be taken more than twice for credit.

*Prerequisite: Junior or Senior standing and consent of instructor.*

## **SOC 3910 - Research Methods**

**4 cr** Introduction to the basic methods of sociological research design, data collection, the organization and analysis of data, and their interpretation through an actual research project. **This course fulfills the Gen Ed computing requirement for Sociology majors.**

*Prerequisite: Junior majors in SOC, CRJ or acceptance in Social Work program, or consent of instructor.*

## **SOC 4020 - Sociological Theory**

**3 cr** Critical analysis of the development of sociological thought from Comte to the present, with particular emphasis on the theoretical contributions which have been instrumental in the emergence of sociology as an academic discipline.

*Prerequisite: SOC 1010 or consent of instructor.*

## **SOC 4720 - Capstone Seminar in Sociology**

**3 cr** A seminar designed to provide the Sociology major with an opportunity to demonstrate an understanding of basic sociological concepts and their application to the research process.

*Prerequisite: SOC 3910 and SOC 4020.*

## **SOC 4810 - Internship in Sociology**

**1-12 cr** An opportunity for the student to take a position of responsibility in a professional environment under the direction of an on-site supervisor and a faculty member. Not more than 6 credits may be counted toward the 31 credit sociology major.

*Signed contract required at time of registration.*

*Prerequisite: Permission of the coordinator.*

## **SOC 4910 - Independent Study**

**1-3 cr** Available by arrangement with coordinator.

*Signed contract required at time of registration.*

## **Social Work**

*Other relevant courses may be found under Sociology.*

## **SWK 1010 - Introduction to Human Services**

**3 cr** An overview of the organization, values, theories and variety of activities of various human service professions, with specific emphasis on Social Work. Designed to acquaint students with the range of human services and to test interest in a helping career. Social work majors must get a C or better to continue on with social work required courses.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

## **SWK 1810 - Early Field**

**1 cr** Pre-professional helping experience in local Social Service Program. NOTE: Students with prior human services experience may be exempted from this requirement. See Instructor.

*Prerequisite: SWK 1010, or taken concurrently with SWK 1010.*

*Every Semester*

## **SWK 2011 - Human Behavior In The Social Environment I**

**3 cr** An examination of the life cycle from a perspective of systems analysis. Studies conception to adolescence focusing on the interrelationships among physiological, psychological, social and cultural systems. Specific emphasis is on the social institutions that affect movement of the individual through the life cycle.

*Prerequisite: SOC 1010, PSY 1012. BIO 1010 or BIO 2011 prerequisite or concurrent, or permission of the instructor.*

*Fall*

## **SWK 2012 - Human Behavior In The Social Environment II**

**3 cr** A continuation of SWK 2011 covering the stages of the life cycle from adolescence through death. In addition, an understanding of the behavioral dynamics of large systems is developed and applied to practical situations.

*Prerequisite: SWK 2011 or consent of instructor.*

*Spring*

## **SWK 2020 - Family Violence**

**3 cr** Analyzes the psychosocial dynamics of families disrupted by domestic violence. Aspects of child abuse, spouse abuse and elder abuse will be covered. Differential social work assessment and intervention will be emphasized.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Every Semester*

## **SWK 2030 - Human Sexuality**

**3 cr** An explanation of contemporary issues, theories and practices from an interdisciplinary perspective. Students will analyze videos and a range of written content with respect to sexual messages and behavior. Aspects of sexual obstacles and conflicts with appropriate modes of intervention will also be highlighted.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Fall*

## **SWK 2040 - Discrimination in American Society**

**3 cr** An understanding of the dynamics and American history of prejudice and discrimination in relation to racial and ethnic minorities, women and the aged is developed. Special emphasis placed on issues relevant to Social Welfare.

*Prerequisite: SOC 1010 or consent of instructor.*

*Spring*

## **SWK 2050 - Intervention with Families and Children**

**3 cr** An introduction to basic strategies and interventions used to help families and children cope with psychosocial/environmental needs, difficulties and problems. Problem areas include child abandonment, sexual and physical abuse, learning difficulties, marital discord, dysfunctional communication, and gang membership. Emphasis is placed upon research and practice outcomes in child welfare settings.

*Prerequisite: SWK 1010, or SOC 1010, or PSY 1012, or consent of instructor.*

*Fall*

## **SWK 2130 - Introduction to the Study of Aging**



**3 cr** A critical theoretical approach to the study of aging. A life span developmental perspective will frame issues on aging. Students will gain an understanding of the sociological, psychological, biological, and political aspects of aging. Application of knowledge for helping professionals will be emphasized through an interdisciplinary framework.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Fall*

### **SWK 2710 - Selected Topics in Social Work**

**3 cr** Specific topics to be announced in the Semester Course Offerings. Course offerings will be determined by student interest and availability of faculty. Specific topics may include: Community Organization, Social Work with Groups, Social Work with the Elderly, Developmental Disabilities, Psychosocial Aspects of AIDS, Rural Social Work, Social Work in Health Care Settings, Radical Social Work, and Child Welfare. No topic may be taken more than once for credit.

### **SWK 2900 - Independent Study**

**1-3 cr** Available by arrangement with coordinator.

*Signed contract required at time of registration.*

### **SWK 3010 - Social Work Practice I**

**3 cr** The process of social work intervention, including professional values and roles and the development of practice skills. Required of students in the Social Work Program. Student must earn a grade of "C" or better for admission into SWK 4811.

*Prerequisite: SWK 1810 and SWK 2011; or consent of instructor; taken concurrently with SWK 3020.*

*Spring*

### **SWK 3020 - History And Philosophy Of Social Work**

**3 cr** Provides a theoretical model of professionalization for analyzing social work's historical development. Examines how social work moved from its original altruism to become identified with case work rather than social reform. A critical review of issues central to social policy and social services.

*Prerequisite: SOC 1010, SWK 1010, SWK 2011; taken concurrently with SWK 3010 except with consent of instructor.*

*Spring*

### **SWK 3030 - Advanced Study in Social Work**

**3 cr** Specific topics to be announced in the Course Schedule Catalog. See SWK 2710 for general subject areas and possible topics. No topic may be taken more than once for credit.

### **SWK 3820 - Social Work Proctorship**

**1-3 cr** Social Work proctors assume responsibility, under faculty supervision, for the progress of students in Social Work courses at various levels. Among other duties Social Work proctors will tutor students, and assist them with assignments, projects and research. In this role a student proctor will assist Social Work faculty toward achieving the course's stated goals and learning outcomes. A written contract may be required upon the faculty member's request. May not be taken more than twice for credit.

Junior or Senior standing.

*Graded only*

## **SWK 4010 - Social Welfare Policies, Programs and Issues**

**3 cr** A critical theoretical approach to social policy development and analysis. Examination of the adequacy of current social welfare programs and services. Emphasis will be placed on value choices, politics, and praxis in the development and implementation of social welfare policy as a response to social problems in American society.

*Prerequisite: SWK 2040, SWK 3020.*

*Fall*

## **SWK 4020 - Social Work Practice II**

**3 cr** An in-depth study of the beginning and middle phases of the helping process with focus on engagement, assessment, interviewing, and communication skills in work with micro, mezzo, and macro client systems. Theoretical concepts are applied to practice situations and methods for evaluation of practice are explored. Student must earn a grade of "C" or better for admission into SWK 4030.

*Prerequisite: "C" or better in SWK 3010 and SWK 3020. SOC 3910 must be taken as a prerequisite or concurrently with SWK 4811.*

*Fall*

## **SWK 4030 - Social Work Practice III**

**3 cr** Application of professional ethics, knowledge, methods, strategies, and skills in practice with client systems of differing size, complexity, and problem manifestation. Emphasis is placed upon the termination of intervention, student self evaluation, and the demands of different practice settings.

*Prerequisite: "C" or better in SWK 4020 and SWK 4811. Taken concurrently with SWK 4812.*

*Spring*

## **SWK 4720 - Social Work Capstone Seminar**

**3 cr** This is the final culminating course in the Social Work education experience which integrates material from the whole of the social work curriculum as students prepare to enter practice or graduate school.

*Prerequisite: SWK 4020 and SWK 4811. Must be taken concurrently with SWK 4030 and SWK 4812.*

*Spring*

## **SWK 4811 - Field Experience I**

**6 cr** Field instruction in area social agencies offering opportunities to acquire skill in social work practice. NOTE: Social Work agreement must be signed prior to taking this course (see p. 91).

*Prerequisite: "C" or better in SWK 3010, must earn a "C" or better for admission into SWK 4030. See eligibility for field instruction in Social Work Program Manual. Two full days a week. Taken concurrently with SWK 4020.*

*Fall*

## **SWK 4812 - Field Experience II**

**6 cr** A continuation of SWK 4811. Taken concurrently with SWK 4030.

*Prerequisite: "C" or better in SWK 4020 and SWK 4811.*

*Spring*

## **SWK 4900 - Independent Study**

**1-3 cr** Available by arrangement with coordinator.  
*Signed contract required at time of registration.*

## **Social Science**

*Other relevant courses may be found under Anthropology, Economics, Geography, Global Studies, History, Political Science, Psychology, Sociology, and Social Work.*

### **SSC 1010 - Introduction to the Study of Community**

**3 cr** Characteristic insights of geographers, historians, and sociologists applied to small-scale societies, through first-hand observation on field trips as well as reading and classroom work.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

### **SSC 2900 - Independent Study**

**1-3 cr** Available by arrangement with coordinator.  
*Signed contract required at time of registration.*

### **SSC 4910 - Independent Study**

**1-3 cr** Available by arrangement with coordinator.  
*Signed contract required at time of registration.*

## **Spanish**

*Other relevant courses may be found under Foreign Language and Literature.*

### **SPA 1011 - Spanish I**

**1-3 cr** The first course in a two-course sequence. Systematic introduction to the Spanish language. Development of aural comprehension, speaking, reading and writing skills. This may be used to fulfill one general education requirement.

Three class hours plus one hour supervised lab per week.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: ENG 0040/ENG 1010 or equivalent.*

*Fall*

### **SPA 1012 - Spanish II**

**3 cr** Continuation of SPA 1011.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: SPA 1011 or consent of instructor and ENG 0040/ENG 1010 or equivalent.*

*Spring*

### **SPA 1180 - Latin America: Past and Present**

**3 cr** This course offers an introduction to Latin America by exploring the history, economy, and culture of this rich and diverse region. The multifaceted heritage, which is the backbone of Latin America, will be studied through

documentaries, films, journal articles, literary and historical texts, architecture, music, and the visual arts.  
*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*  
*Every semester*

### **SPA 2011 - Spanish III**

**3 cr** Systematic and intensive review of first-year university or two-year high school Spanish in the first seven weeks. The second seven weeks will be devoted to continued study of Spanish grammar, directed composition, and vocabularies for everyday use. Informal oral and written reports. Three hours of class. Lab work will be assigned by instructor as needed.  
*This course fulfills the World Views Frame of Reference.*  
*Prerequisite: SPA 1012 or two years high school Spanish or consent of instructor.*  
*Fall*

### **SPA 2012 - Spanish IV**

**3 cr** Continuation of SPA 2011.  
*This course fulfills the World Views Frame of Reference.*  
*Prerequisite: SPA 2011 or consent of instructor.*  
*Spring*

### **SPA 2020 - Intermediate Spanish: Introduction to Contemporary Literature**

**3 cr** Selected readings in contemporary literature from Spain and Latin America. Written and oral reports.  
*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*  
*Prerequisite: Simultaneous registration in SPA 2012 or consent of instructor.*  
*Spring*

### **SPA 2030 - Spanish American Cultures**

**3 cr** Reading in a special topic area to introduce students to the Hispanic world. As topics change, this course may be repeated for credit. Readings in Spanish and English.  
*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*  
*Prerequisite: Simultaneous registration in SPA 2012 or consent of instructor.*  
*Spring*

### **SPA 2040 - Business Spanish**

**3 cr** Development of business-oriented vocabularies. Introduction to the “art” of business letter writing. Translation of letters from and into Spanish.  
*Prerequisite: Simultaneous registration in SPA 2012 or consent of instructor.*  
*Spring*

### **SPA 2050 - Spanish for Health Professionals**

**3 cr** This introductory course is intended for medical personnel who need a practical orientation to Spanish for the purpose of communicating with Hispanic patients. It emphasizes vocabulary and structures in situational contexts taught by audiolingual methods. Dialogues, oral manipulation of the most needed structures and expressions will be practiced as students are guided toward liberated expression. By the end of the course, students will be expected to demonstrate competence in listening comprehension, speaking skills, and limited ability to read in the target language.

### **SPA 2110 - Incas, Aztecs and Mayas**

**3 cr** This course examines the foundation, evolution, and the cultural apex of the Inca, Aztec and Maya societies. These civilizations are studied through their art, architecture, myths, religion, music, agriculture, pottery, and literature. The course also reflects upon the living heritage left by these civilizations.

*Prerequisite: Intermediate level Spanish fluency.*

*Periodically*

### **SPA 2120 - Spanish Pedagogy Lab for Elementary Education**

**1-2 cr** The purpose of this course is to expose students to teaching a foreign language at the elementary school level. The course gives students the necessary tools and enables them to perfect many techniques to create their own classroom games, activities, and songs. Emphasis is placed on recycled, available, low-tech, and self-made materials. This course also pays attention to the challenges of classroom management. The course may be repeated once.

*Prerequisite: Intermediate level Spanish fluency.*

*Periodically*

### **SPA 2125 - Spanish Pedagogy Lab for Secondary Education**

**1-2 cr** The purpose of this course is to expose students to the rationale behind the acquisition and teaching of a second language at the middle school and high school levels. Students learn relevant terms regarding language proficiency and the ability to distinguish between competencies vs. performance. Upon completion of the course the student will be able to answer questions regarding language acquisition in accordance with the Vermont and National Standards for Foreign Language Education. This course may be repeated once.

*Prerequisite: Intermediate level Spanish fluency.*

*Periodically*

### **SPA 2215 - Spanish Conversation through Art**

**3 cr** Through regular practice and conversation students develop familiarity and fluency with the Spanish language. Conversations about paintings, sculpture, movies, modern and ancient art will be a critical part of the class. There will also be conversations about practical activities that are part of daily life. Students maintain an ongoing journal building their vocabulary.

*Periodically*

### **SPA 2820 - Spanish Field Experience**

**1-2 cr** This course is an opportunity for students to work with teachers and children teaching Spanish in the school environment. It prepares the student for an introductory Spanish teaching experience under the guidance of a qualified university supervisor.

*Periodically*

### **SPA 2910 - Independent Study**

**1-3 cr** The student should refer to the special section of this catalog for the description of the Independent Study and the procedures to follow. Not open to first year students. Sophomore or Junior students register for SPA 2910, Seniors for SPA 4910. By permission of program coordinator only.

*Signed contract required at time of registration.*

### **SPA 3010 - Advanced Grammar, Composition and Conversation**

**3 cr** Thorough review of Spanish grammar. Weekly compositions and oral reports. Exercises in translation. Required for Spanish majors and minors.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: SPA 2012 or consent of instructor.*

*Fall*

### **SPA 3020 - Business Writing in Spanish**

**3 cr** Further development of business oriented vocabularies and practice in accurate translation of business letters. Directed and free composition of business letters in Spanish.

*Prerequisite: SPA 2030 and SPA 3010 or simultaneous registration in SPA 3010 or consent of instructor.*

*Fall*

### **SPA 3030 - Advanced Composition and Conversation**

**3 cr** Further development of written and spoken fluency in Spanish.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Spring*

### **SPA 3040 - Spain: The Making of the Canon (1492-1899)**

**3 cr** An introduction to the major authors, genres, and themes of Spanish Literature from 1492 through the 18th Century.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

### **SPA 3050 - Spain: The Making of the Canon (1900 to the present)**

**3 cr** An introduction to the major authors, genres, and themes of Spanish Literature from the 18th Century to the present.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

### **SPA 3060 - Latin America: The Making of the Canon (1492-1899)**

**3 cr** An introduction to the major authors, genres, and themes of Latin American Literature from 1492 through the 18th Century.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

### **SPA 3070 - Latin America: The Making of the Canon (1900 to the present)**

**3 cr** An introduction to the major authors, genres, and themes of Latin American Literature from 1900 to the present.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

## **SPA 3080 - Spanish Civilization**

**3 cr** An examination of Spanish civilization from historical, psychological, literary, and artistic perspectives. Topics for special concentration include: The land and its history; psychology of men and women as evidenced in machismo, donjuanismo, and feminism; the Spanish preoccupation with death. (Readings from Saenz-Alonso, Valle Inclan, Unamano, and Baroja); and music (Albeniz, de Falla, Granados) and art (Goya, El Greco, Velaquez, and Picasso). Taught in Spanish.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 2012, SPA 2020 or consent of instructor.*

*Spring, odd years*

## **SPA 3110 - Latin American Novel and Short Story**

**3 cr** Emphasis on contemporary writers such as Garcia Marquez, Carpentier, Borges and Rulfo. Taught in Spanish.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

## **SPA 3120 - Golden Age Theater**

**3 cr** History of the Spanish stage through the end of the seventeenth century. Works by Lope de Vega, Tirso de Molina, Cervantes and Calderon de las Barca. Taught in Spanish.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

## **SPA 3130 - Twentieth Century Spanish Literature**

**3 cr** Generation of 98. Theatre and poetry of Garcia Lorca. Selected work from the post-Civil War period. Taught in Spanish.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Spring*

## **SPA 3150 - The Novel of the Mexican Revolution**

**3 cr** This course will devote itself to the exploration of two main subjects: the response of the established Mexican literature to the phenomena of the revolution at the time and the production of a long-lasting literary activity that centers on the revolution and its consequences.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Spring, even years*

## **SPA 3160 - Latin American Women Writers**

**3 cr** This course focuses on the writings of the most prominent Latin American women writers of recent times. A variety of literary genres—poetry, essay, drama and novel will be studied. The topics of "machismo" and "marianismo" as well as the dynamics between the different socio-cultural realities and literature will be studied.

*This course fulfills the Aesthetic Understanding or World Views Frame of Reference.*

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

## **SPA 3710 - Special Topics in Literature and Culture**

**3 cr** This course enables faculty and students to explore subjects that are treated only briefly, or not at all, in regular Spanish courses. The specific subject of the course will be announced at registration.

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

## **SPA 3720 - Directed Study Seminar**

**3 cr** Study of one of the catalog courses in a semester when that course is not being offered. The Directed Study Seminar enables the student to meet a forthcoming Spanish course prerequisite or make up a needed course which may not be offered again before graduation. The student and the instructor meet at regular intervals throughout the semester. The usual course requirements- reading, papers, oral reports and tests, are a part of the Directed Study. The Directed Study Seminar number corresponds to the level of the catalog course and would be listed as follows: SPA 3710 Directed Study. Seminar: Golden Age Theatre.

*Prerequisite: Same as regular course.*

## **SPA 3810 - Spanish Proctorship**

**1-2 cr** Language proctors assume responsibility under supervision for beginning level language labs. Responsibilities include supervision of tapes and grammar review. This course may be repeated.

*Prerequisite: Student must have completed SPA 2011 and SPA 2012 with a grade of B or better. Variable credit with consent of program coordinator.*

## **SPA 3820 - Internship in Spanish**

**Variable cr, 1-12** This course provides an opportunity to work with the community in a professional environment that is related to the Spanish languages and cultures, under the direction of an on-site supervisor and a faculty member. Not more than 6 credits may be counted toward the 30 credit Spanish major. This course may be repeated.

*Signed contract required at time of registration.*

*Prerequisite: Permission of the coordinator.*

*Every Semester*

## **SPA 4020 - Teaching Spanish as a Foreign Language in Pre K-12 Schools**

**3 cr** The main objective of this course is to become acquainted with the basic methods and techniques used in teaching Spanish as a foreign language. Special emphasis will be given to the role of technology in teaching Spanish as a foreign language. Throughout the course students will be asked to promote the integration of the four language skills: speaking, listening, reading and writing. Students will supplement their classroom work with visits to area K-12 schools.

*Prerequisite: SPA 3010 or consent of instructor.*

*Periodically*

## **SPA 4720 - Directed Study Seminar**

**3 cr** Study of one of the catalog courses in a semester when that course is not being offered. The Directed Study Seminar enables the student to meet a forthcoming Spanish course prerequisite or make up a needed course which may not be offered again before graduation. The student and the instructor meet at regular intervals throughout the semester. The usual course requirements- reading, papers, oral reports and tests- are a part of the Directed Study. The Directed Study Seminar number corresponds to the level of the catalog course and would be listed as follows: SPA 3710 Directed Study. Seminar: Golden Age Theatre.

*Prerequisite: Same as regular course.*



## **SPA 4910 - Independent Study**

**1-3 cr** The student should refer to the special section of this catalog for the description of the Independent Study and the procedures to follow. Not open to first-year students. Sophomore or Junior students register for SPA 2910, Seniors for SPA 4910. By permission of program coordinator only.

*Signed contract required at time of registration.*

## **Theater Arts**

*Other relevant courses may be found under Communication, Dance, and English.*

### **THA 1001 - Stage Production**

**1 cr** Students participate in department productions, either as actors or in a technical capacity. Evaluation is based on the hours spent on production, the quality of the performance, the seriousness of purpose and, quality of participation. This course is repeatable for credit.

*Prerequisite:*

*Fee \$15.*

*Every semester*

### **THA 1010 - Plays From Castleton**

**3 cr** A traveling theater appreciation course which utilizes the unique proximity of Castleton to first-class summer theater festivals. Classes are held before and after each performance to introduce the play and to share reactions. Students write substantial review/reaction papers on four productions.

*Fee is for tickets/transportation.*

### **THA 1041 - Introduction to Theater Arts**

**3 cr** Designed to develop an understanding and appreciation of the varieties of theatrical experience.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Every semester*

### **THA 1111 - Stagecraft**

**3 cr** Basic course in the physical mounting of a stage production. Scenery, lighting, properties, sound and technical effects are examined. The course includes a weekly two hour lab and may include crew work on productions.

*This course counts towards the Aesthetic Understanding Frame of Reference, and may be repeated once for credit.*

*Fee \$30.*

*Every semester*

### **THA 2011 - Survey of Theater History I**

**3 cr** An examination of the critical periods of Theater History from the Greeks through Shakespeare. Representative plays from each period will be explored, as plays are some of the best reflections of any particular culture.

*This course fulfills the World Views Frame of Reference.*

*Fall*

### **THA 2012 - Survey of Theater History II**

**3 cr** An examination of the critical periods in Theater History from French Neoclassicism to the present. Representative plays will be explored, as plays are some of the best reflections of any particular culture.

*This course fulfills the World Views Frame of Reference.*

*Prerequisite: THA 2011.*

*Spring*

### **THA 2110 - Voice and Diction**

**3 cr** In this course students will learn the skills necessary to produce a good speaking voice, correct faulty speech habits, and develop practices in public speaking.

*Spring, even years*

### **THA 2121 - Acting I**

**3 cr** This course will emphasize principles of acting at the beginning level. Emphasis will be placed on exercises and course work related to relaxation, talking and listening, body dynamics, concentration, sensory awareness, imagination, improvisation, actions and objectives in addition to other basic concepts related to the actor's process. Performance requirements include individual and group exercises and two-character scene work.

*This course counts towards the Aesthetic Understanding Frame of Reference.*

*Every semester*

### **THA 2122 - Acting II**

**3 cr** Continuation of THA 2121 with concentration on character analysis. Performance requirements will include monologue and scene study experiences.

*Prerequisite: THA 2121.*

*Spring*

### **THA 2130 - Costume Design and Construction**

**3 cr** A study of the principles and techniques of costume design for the theater. In addition to dealing with design projects and their realization, the course provides an overview of costume history with focus on the current production's period. May be repeated once for program credit.

Lecture and workshop.

*Lab fee \$30.*

*Fall, odd years.*

### **THA 2140 - Introduction to Theatrical Design**

**3 cr** This course serves as an introduction to the design and technical aspects of theatre performance. It also serves as a preparatory course for more advanced work in the specific areas of design (scenery, sound, properties, lighting, and costuming).

*Fee \$30.*

*Spring*

### **THA 2160 - History of Musical Theater**

**3 cr** An examination of the Musical as a performing art from its roots to current day. Musicals will be explored from aesthetic, cultural, political, social, and historical perspectives.

## **THA 2510 - Scenic Painting**

**3 cr** This class is designed to introduce students to the study and practice of scenic art and scenic painting. Students will learn the fundamental techniques of painting and texturing associated with such basic scenic design applications as wood graining, marbling, stenciling, etc.

*Fee \$30*

*Spring, odd years*

## **THA 2750 - Special Topics in Theater**

**3 cr** In-depth examination of a variety of specific elements from different areas of theatre. Exact course descriptions will be provided prior to each registration period. May be taken multiple times for credit as topics change.

*Prerequisite: THA 1041.*

*Spring*

## **THA 2900 - Independent Study**

**1-3 cr** Hours by arrangement.

*Signed contract required at time of registration.*

*Prerequisite: Consent of department chair.*

## **THA 3020 - Acting for the Camera**

**3 cr** Instruction and practice in the basics of acting for both TV and film style productions: playing to the camera, shooting out of sequences, blocking, and other production considerations.

*Prerequisite: THA 2121.*

*Alternate years.*

## **THA 3030 - Children's Theater**

**3 cr** This course focuses on the development of scripted and non-scripted works for performance by and/or for children. Students will create productions and may work on productions in the community.

*This course fulfills the Aesthetic Understanding frame of reference.*

*Spring*

## **THA 3050 - Stage Makeup**

**3 cr** A course in the art of makeup as a design element and augmentation of characterization. Various kinds of makeup and character types will be explored. The course will culminate in character analysis, design and makeup execution for a character.

*Lab Fee \$60.*

*Fall, even years.*

## **THA 3120 - Lighting Design**

**3 cr** Explores the practical and artistic elements of lighting the stage. The fundamentals of instrumentation and control are explained. Also included will be systems of nomenclature and computer aided drafting techniques for the development of lighting plots. Emphasis will be on practical experience in developing the student's sense of lighting aesthetics.

*Lab fee \$30.  
Fall, odd years*

### **THA 3123 - Acting III**

**3 cr** An advanced acting studio which deals with acting styles and advanced audition techniques. The course will culminate in acting juries.

*Prerequisite: THA 2121 and THA 2122.  
Fall, Odd years*

### **THA 3124 - Acting IV**

**3 cr** An advanced acting studio that deals with acting theorists and their practices through scene study, analysis, and performance.

*Prerequisite: THA 3123.  
Spring Even years*

### **THA 3211 - Directing I**

**3 cr** An introductory directing course which deals primarily with script analysis and research methods in preparation for the directing of major productions for the theater.

*Prerequisite: THA 1111, THA 2121, and/or the consent of the instructor.  
Fall, even years*

### **THA 3212 - Directing II**

**3 cr** An intermediate directing course which deals with script analysis and research methods in preparation for the directing of major productions for the theater. The course is designed as a lab application with numerous directing projects assigned.

*Prerequisite: THA 3211.  
Spring, odd years*

### **THA 3220 - Computer Aided Design for Theatre**

**3 cr** Students will learn the use of computer aided design software specifically as it applies to theatre design; starting with basic two-dimensional shapes and working up to fully rendered three-dimensional models.

*Fee \$30  
Fall, odd years*

### **THA 3310 - Dramatic Theory and Criticism**

**3 cr** This course examines the work of major playwrights and critical theories of western theater from the Ancient Greeks to the present. The class will rely heavily on extensive reading of dramatic literature and the theories and criticisms that followed as well as informed group discussions of the required reading.

*Fall*

### **THA 3331 - Scene Design**

**3 cr** An examination of the elements of design as they relate to the translation and reinforcement of the dramatic image of a play script into the visual environment of a production. Includes development, completion and critical analysis of

original projects.  
Lecture and workshop.  
*Lab fee \$30.*  
*Spring, odd years*

### **THA 3810 - Internship in Theater**

**1-12 cr** Credit to be arranged. The student assumes a position of responsibility in a professional theater or related facility or organization under the supervision of an on-site professional and a faculty member. Permission of department. Registration by permission of department chair only.  
*Signed contract required at time of registration.*

### **THA 4020 - Stage Management**

**3 cr** Students study the function and role of the theatrical stage manager. Tools such as rehearsal and performance reports, a stage manager's book, and stage management kit will be employed.  
*Prerequisite: THA 1041 and THA 2140.*  
*Fee \$30.*  
*Spring, odd years*

### **THA 4030 - Portfolio Preparation**

**1 cr**

In this course students will produce a portfolio for professional review. Resumes, cover letters, headshots, various portfolio presentation methods as well as interview and audition techniques will be addressed and prepared.  
*Senior standing.*  
*Prerequisite: Permission of department.*  
*Spring*

### **THA 4332 - Advanced Design for the Theater**

**3 cr** An in-depth examination of a single area of design for the theater as it relates to the translation and reinforcement of the dramatic image of a play script into the visual environment of a production. Includes the development, completion and critical analysis of several original projects in either scenic, lighting, or costume design. It is expected that several of the student projects will be realized.  
*Prerequisite: THA 3331 and THA 2140 or consent of instructor.*  
*Lab fee \$30.*

### **THA 4410 - Theater in Education**

**3 cr** Explores the range and possibilities of theater as a pedagogical method. Emphasizes the use of theater as a developmental teaching tool, and as a means of reinforcing other areas of K-12 school curriculum. Students may be required to work directly with children in a classroom or extra-curricular setting.  
*This course counts towards the Aesthetic Understanding Frame of Reference.*  
*Fall*

### **THA 4720 - Senior Project in Theater**

**3 cr** The student selects a project, in consultation with his or her advisor, for public presentation. A proposal of the project, from concept to planning and realization, is a requirement for the course. The department strongly recommends students engage in collaborative projects, such as a fully realized state production.

*Prerequisite: Senior standing or consent of instructor. As needed by seniors.*

### **THA 4810 - Internship in Theater**

**1-12 cr** The student assumes a position of responsibility in a professional theater or related facility or organization under the supervision of an on-site professional and a faculty member.

*Signed contract required at time of registration.*

*Prerequisite: Permission of department.*

### **THA 4910 - Independent Study**

**1-3 cr** Permission only.

*Signed contract required at time of registration.*

## **Women's and Gender Studies**

*Other relevant courses are listed [here](#).*

### **WGS 1020 - Introduction to Women's And Gender Studies**

**3 cr** This course enables students to understand and appreciate the rich and varied field of Women's and Gender Studies; to identify and explain ideas about gender and the ways that it has affected individuals; to understand how gender identity is shaped by race, class and culture, and what it means and has meant to be a gendered subject in the United States and abroad.

*This course fulfills the Social and Behavioral Understanding or World View Frame of Reference.*

### **WGS 2080 - Thinking Bodies**

**3 cr** *Crosslisted as SOC 2080*

An interdisciplinary study of the ways in which society thinks about bodies in relation to social locations. Students examine the various ways in which bodies are socially constructed, disciplined, and assigned meanings based on race, class, gender, sexuality, nationality, age, and dis/ability. This course encourages students to consider experiences of embodiment from sociological and feminist perspectives.

*This course fulfills the Social and Behavioral Understanding Frame of Reference.*

*Periodically*

### **WGS 2710 - Special Topics**

**3 cr** Specialized topics in Women's and Gender Studies that reflect student interests and instructor expertise of specialties. Special topics will be announced the semester prior to the semester of the course offering.

### **WGS 2910 - Independent Study**

**1-3 cr** Provides the exceptionally curious and motivated student the opportunity to explore on an introductory level an aspect of the study of women and / or gender that is not offered by the courses listed in the course catalog. Students need to arrange with an appropriate faculty member a student-faculty independent study contract prior to registration.

*Must be approved by women's studies coordinator.*

## **WGS 3210 - Feminist Thought**

**3 cr** This course examines the various waves of feminist movements, as well as the many feminist perspectives that exist. Students will be exposed to the contributions of feminist thinkers and understand the key debates within Women's and Gender Studies.

*Junior or Senior standing*

*Prerequisite: WGS 1020*

## **WGS 3310 - Feminist Methods: Research and Action**

**3 cr** This course provides an introduction to feminist research methods. Students will be encouraged to apply their understanding of feminist theories to the methods presented in this course. Students will examine various feminist epistemologies, or ways of knowing. This course will engage the following central questions: Is there a feminist research method? What are feminist research methods? Should there be feminist research methods? How do feminist research methods overlap with or differ from other research methods?

*Junior or Senior standing*

*Prerequisite: WGS 1020 recommended*

*Spring*

## **WGS 3710 - Special Topics**

**3 cr** Specialized topics in Women's and Gender Studies that reflect student interests and instructor expertise of specialties. Special topics will be announced the semester prior to the semester of the course offering.

## **WGS 3910 - Independent Study**

**1-3 cr** Provides the exceptionally curious and motivated student the opportunity to explore in greater depth an aspect of a women's studies course that the student has already taken. Students need to arrange with an appropriate faculty member and a student-faculty independent study contract prior to registration.

*Must be approved by women's studies coordinator.*

## **WGS 4510 - Activism and Advocacy Project in WGS**

**3 cr** This course is designed to support student involvement in the community through activism and advocacy. Students must design a sustainable project that serves the university and broader communities, and demonstrates students' involvement and agency.

*Junior or Senior standing or permission of the WGS program coordinator.*

## **WGS 4610 - Senior Project in Women's and Gender Studies**

**3 cr** This is a capstone course that allows a student to either write a senior theoretical thesis in Women's and Gender Studies or work on a creative art form, such as film, installation art, music, etc. Students will prepare and present their culminating research or creative project, which incorporates feminist theory and praxis.

*Prerequisite: At least 12 credit hours of WGS related courses or senior standing.*

*Every Semester*

## **WGS 4810 - Field Experience in Women's and Gender Studies**

**3-6 cr** Students design and conduct an activist project in close supervision with a WGS faculty member to get hands-on experience to bring social change. Unlike internships, this course includes a major research component.

*A maximum of 6 credits of WGS 4810 may be applied towards the major or minor.  
Every semester*

## **WGS 4820 - Internship in Women's and Gender Studies**

**1-6 cr** Students who are Women's and Gender Studies majors and minors undertake career placements with local, state, or national organizations that address needs and conditions in today's society from the perspective of gender. A signed contract is required at the time of registration. Students must have at least 12 credits in Women's and Gender Studies or permission of instructor.

## **WGS 4910 - Independent Study**

**1-3 cr** Provides the exceptionally curious and motivated student the opportunity to explore in greater depth any aspect of women's studies. The study must culminate in a major research paper or project. Students need to arrange with an appropriate faculty member and a student-faculty independent study contract prior to registration. Must be approved by women's studies coordinator.

# **Student Life**

Castleton offers opportunities for all students to become involved in co-curricular activities. From this involvement students can realize personal growth and develop their leadership skills through out-of-class activities that complement and enhance academic coursework. Each student is urged to become involved with one or more of the clubs and organizations that are available at the university. Castleton offers more than 50 clubs and organizations, 29 varsity intercollegiate teams, intramural sports, a chorus, a wind ensemble, plays, concerts, dances, movies, and student government-that are organized and maintained by and for the students.

Castleton fields 29 intercollegiate athletic teams that compete in the National Collegiate Athletic Association (NCAA), Division III, Eastern College Athletic Conference (ECAC) and the North Atlantic Conference (NAC). These teams are participants in regional tournaments against New England opponents and on occasion have succeeded in reaching national tournament competition. Outdoor and indoor facilities are available for student use including intramural contests or friendly scrimmages. The Student Health and Physical Education (SHAPE) facility includes two full size gymnasiums, a six-lane swimming pool, two racquetball courts, and 3000 square foot fitness center and climbing wall.

The 165-acre Castleton campus is within easy driving distance of Killington/Pico and Okemo ski resorts where Castleton students can ski for recreation. Adjoining the campus is a fine riding facility, the 2,000-acre Pond Hill Ranch with more than 70 miles of trails. Equestrian instruction is available through the Department of Health, Human Movement, & Sport. There are swimming, sailing, fishing, and golfing opportunities in the nearby Lake Bomoseen area.

# **New Student Programs**

New students are introduced into the Castleton community through a two-part process. In May, new students receive information about summer registration. Registration for new transfer and first-year students entering in the fall occurs during the summer. During the summer registration sessions students have the opportunity to speak with a faculty advisor before choosing their courses for the fall semester.

The second part of the introduction of new students to Castleton occurs in the form of a mandatory Orientation program which occurs on the weekend just prior to the start of the fall semester. In this program, through a series of meetings, receptions, conferences, small group activities, informal gatherings and social events, students are exposed to much of what they need to know in order to have a successful beginning to their Castleton University careers. New students will



have an opportunity to meet the President, the Deans, and many of the administrators, faculty, and staff who can assist students in their lives at Castleton as well as many upperclass men and women with whom the new students will be spending their year.

First-year students are also assigned first-year advisors, professors from different departments who teach the First-Year Seminar. In addition to serving as the instructor in a student's First-Year Seminar, these faculty members will serve as advisors during orientation and throughout a student's first year. After the first year, a student will be assigned an advisor in his or her major. These advisors will provide students with the support and guidance they need to succeed at the university.

For new **international students** entering Castleton in the fall, a mandatory international orientation program precedes the new student orientation.

For those students entering Castleton at mid-year, a registration program is held prior to the start of the spring semester. International students entering Castleton at this time will also have a mandatory orientation program.

## Athletics

The athletics department is located in the Spartan Complex. Under the leadership of the associate dean for athletics and recreation, the university is committed to both intercollegiate, club, and recreational athletic opportunities.

Castleton fields 29 intercollegiate athletic teams (men's and women's soccer, alpine skiing, Nordic skiing, tennis, cross-country, basketball, lacrosse, ice hockey, golf, indoor/outdoor track and field, women's softball, men's football, men's baseball, women's field hockey, women's volleyball) that compete in the National Collegiate Athletic Association (NCAA), Division III, and the Eastern College Athletic Conference (ECAC), and the North Atlantic Conference (NAC).

Club sports that compete against other schools are programs supported by both student association and individual resources. These programs change with the current interests of students. Currently there are men's and women's rugby, equestrian, and cheerleading clubs.

Recreational sports and general fitness activities are available in the S.H.A.P.E. facility. Intramurals are organized in many sports (basketball, soccer, volleyball, floor hockey, etc.), and the Department of Health, Human Movement, & Sport offers skills courses for students to learn and/or improve their skills in particular sports.

## Campus Media

The student-run radio station, WIUV (91.3 FM), is an important part of campus life. WIUV serves both the university and the local community, broadcasting varied programs of music, news, sports, and weather, as well as airing public service and education spots.

The constantly expanding music library contains a large assortment of music, rock, hip-hop, jazz, classical, and much more. Emphasis is placed on student ability to run all aspects of the station. Membership is open to students, faculty, staff, and members of the local community. Some students studying communication may use the station as a laboratory experience.

Video Magazine is produced biweekly by students in television production classes.

The Castleton Spartan is the university's student newspaper, which has a companion website at [www.castletonspartan.com](http://www.castletonspartan.com). Any student is welcome to join the club and become involved in the biweekly production of the eight-page print copy and the frequently updated website. Students can write stories, columns, reviews and editorials. They can produce videos for the website and learn to upload stories to it. They can take photographs, help

with the design of the print product or seek out advertising. Communication Department credits can be earned by working on the paper if approved by the advisor.

## **Career Services**

The Career Services Director, in collaboration with the Director of Community Service and the Alumni Director, coordinates programs to enhance the opportunities for students to explore possible life-work plans and tailor their learning experiences to support those plans.

The Career Services Office, located in the Campus Center, offers annual on-campus Career, Graduate School, Study Abroad, and Part-Time Jobs Fairs. In addition, hands-on workshops in resume design, interviewing techniques, job search skills and career webinars are offered throughout the year. Alumni Career Conversations are offered throughout the year allowing students to network with alumni in a variety of careers.

All students are encouraged to take the on-line self-discovery software including FocusCareers (MBTI based) that assists in choosing a major and making career decisions.

## **Communication from the University**

Students may receive official communication from the university via campus mail, campus e-mail, or as mail to their home addresses. Each student will be assigned a Castleton e-mail address. Students are expected to monitor their university e-mail accounts since important messages from instructors and administrators are sent to those accounts. Some official correspondence will only be sent to university e-mail addresses.

Full-time matriculated undergraduate students all receive on-campus mailboxes. Students are responsible for checking their campus boxes. Some official correspondence will only be sent to campus boxes. For students who do not have campus boxes, or during breaks, mail from the university will be sent to the students' home addresses on file in Financial & Registration Services. Financial Aid information will be emailed to the student at her/his Castleton email address.

It is the student's responsibility to make sure that Financial & Registration Services has an accurate address on file. Change of Address forms are available in Financial & Registration Services.

## **Discipline**

Students are representatives of the University and are expected to show respect for law, morality, personal honor, and the rights of others. In addition, students are bound by those statements of the university's policies, regulations and code of conduct that are found in the Catalog, the University Handbook and documents distributed as addenda or supplements to these.

Disciplinary cases are handled by the Dean of Students, the Dean's designee and/ or one of the university's duly constituted judicial bodies, in accordance with procedures found in the University Handbook. The residence hall staff, and/or the University Court may deal with minor problems in the residence halls or an incident that happens on campus.

Statements of university disciplinary and judicial procedures can be found in the University Handbook or the university website [www.castleton.edu/campus/colleghandbook/index.htm](http://www.castleton.edu/campus/colleghandbook/index.htm) and other documents available upon request from the Student Life Office.

## Religious Life

Two churches are located in Castleton within walking distance of the university--Catholic and Federated (Congregational/Methodist). A Jewish Synagogue is located in Rutland, as are churches of most religious denominations. Student organizations such as Christian Fellowship and Fellowship of Christian Athletes offer organized activities on campus through which students may develop their religious life.

## Residence Life and Dining

Castleton maintains eleven residence halls. Five of the halls, Adams, Castleton, Haskell, Morrill and Wheeler are similar suite-style buildings. Each suite consists of four double occupancy bedrooms, a living room and a bathroom. Three of the halls, Ellis, Babcock, and Hoff Hall are corridor style. Each of the three houses, South, Audet, and North include six pods each containing three double occupancy bedrooms and a bathroom. Smoking is not allowed in any residence hall.

It is a condition of admission that all first-year, traditional age, full-time undergraduate matriculated students must live in a university residence hall and eat in the university dining facilities unless they commute from their parent's or legal guardian's home. It should be noted that Residence Life contracts are binding for the entire academic year. Castleton adheres to a policy requiring first-year students to live on campus because participation in the social, cultural and recreational opportunities of campus life enhances the formal learning that takes place within the classrooms.

The university contracts Sodexo to provide food service on campus. There are various board plans available to residential students. All residential students are required to have a meal plan. Commuter students, staff, and visitors are welcome to eat in the dining facilities either by purchasing a meal plan or by paying the regular per meal price at the door.

## Student Activities

Castleton's 50-plus student organizations enable participants to gain valuable leadership experience as well as offering many activities for the campus community. Students must be in good academic standing in order to hold a leadership position in a campus organization.

Several clubs, such as the Student Education Association, Physical Education Majors, and Criminal Justice Club, to name a few, work closely with academic departments to provide co-curricular opportunities for interested students. Clubs such as the Rock Climbing Club and Outing Club take advantage of Vermont's great outdoors.

The Theater Arts Department presents several productions each year, giving students valuable acting and behind-the-scenes experience. Castleton supports an active chorus and wind ensemble. In addition, the Soundings (Introduction to Liberal Arts) program sponsors numerous cultural events each semester ranging from dance performances to distinguished guest lecturers.

## Student Employment

Students who qualify for employment under the federal work-study program (that is, those who are awarded Federal Work-Study by the Financial Aid Office ) may seek part-time employment in one of approximately 30 departments/offices during regular academic terms. Eligible students may also work part-time or full-time during vacation periods and during the summer. While most jobs require that the student be eligible for federal work-study funds, a limited number of part-time jobs are available for those students who are not eligible for federal work-study.

Additional information is available on the financial aid webpage:  
[www.castleton.edu/financialaid/federalworkstudy.htm](http://www.castleton.edu/financialaid/federalworkstudy.htm) or by contacting Financial & Registration Services.

## **Student Government Association**

Every matriculated undergraduate student is a member of the Castleton Student Government Association. The right to membership is granted whether the student lives on campus or is a commuter.

The Student Congress, the Campus Activities Board, and the University Court are the chief vehicles of student government. The Congress supervises the expenditure of over \$350,000 a year collected through the annual CU Student Association Fee. This fee funds a busy schedule of music, films, comedians, special events, and club activities.

### Wellness

## **Wellness Center**

The Castleton Wellness Center supports the educational mission of Castleton by striving to encourage the physical, emotional, intellectual, social, occupational, and spiritual health of students through a comprehensive array of services. Health Services, Counseling Services, Wellness Education, and Violence Prevention and Advocacy are provided free of charge to all Castleton Students. Alcohol and Other Drug Services are also available to students for a fee.

## **Wellness Education**

The Campus Wellness Education programs support individual students, classes, clubs, residence halls, faculty, and staff on pertinent health and wellness topics for the university community including alcohol and other drugs, sleep, sexual health, stress management, healthy eating, and cold/flu prevention. Services include workshops and presentations, health education guidance, campus wide awareness events, and health literacy materials. Technical assistance and coordination is also provided to student organizations and classes educating the campus about health-related issues. BASICS (Brief Alcohol or marijuana Screening and Intervention for College Students) is run through Campus Wellness Education as a service for students who are looking to explore their alcohol or marijuana use.

## **Health Services**

Registered nurses assess illness and injury, triage, initiate emergency protocols as needed, provide information regarding therapeutic interventions, promote wellness education, and make appropriate referrals to local primary care providers. If students require a referral to an off-campus health care provider, the student will be responsible for all expenses incurred. There are several general practice physicians in the town of Castleton as well as a variety of medical and dental specialists in nearby Rutland. Emergency medical service is available at the Rutland Regional Medical Center, and the regional ambulance service provides 24 hour service to the university community.

Students are required to have a completed medical history form, including an up-to-date immunization record, on file in the Wellness Center. Failure to provide these materials may result in cancellation of a student's class registration.

## **Counseling Services**

Licensed counselors and masters-level interns provide short-term counseling and referral, crisis intervention, group counseling, psycho-educational workshops and presentations, and consultation to the community. Counseling services also coordinate the Student Support Network, a program that teaches Castleton students to notice signs of distress in

their fellow students, respond to those students with empathy, recognize warning signs for suicide, and assist students in distress to get help on campus from any number of mental health resources.

## **Alcohol and Other Drug Evaluation and Counseling**

A licensed alcohol and drug counselor provides alcohol and drug evaluations, individual counseling, and group counseling. There are fees involved in drug and alcohol counseling for students who seek services as part of sanctions for breaking state or community laws. Groups are also offered free of charge for students concerned about someone else's use of alcohol or other drugs as well as for students who are choosing not to use drugs or alcohol.

## **Violence Prevention and Advocacy**

The CHANGE initiative at Castleton stands for Creating, Honoring, Advocating, and Nurturing Gender Equity. The CHANGE Initiative Coordinator facilitates a group of students who are the Peer Advocates for CHANGE (PAC). These students and the CHANGE Coordinator are trained to respond to calls and emails that involve sexual assault, relationship violence, stalking, and harassment. The CHANGE Coordinator also develops programs, projects, presentations and campaigns that address diversity, LGBTQ students, and gender equity concerns.

## **Editor's Note**

Castleton University prepares this catalog with the student in mind. While not a contract per se, this catalog, in combination with subsequent catalogs, each semester's *Course listing*, the *University Handbook*, and special announcements, identifies the expectations for a student to earn the distinction of being a Castleton University graduate. Careful and thorough reading will allow the completion of requirements with few, if any, misunderstandings.

Castleton University reserves the right to make changes in the course offerings, degree requirements, charges, regulations, and procedures contained herein as educational and financial considerations require.

Audited financial statements are available for review through the Vermont State Colleges.

### Non-discrimination Statement

Every member of Castleton University should work to ensure non-discriminatory processes and practices with faculty, staff, and students. Qualified students are recruited for, admitted to, and participate in all university programs without discrimination on the basis of race, color, gender, sexual orientation, religion, creed, national origin, age, veteran status, or disability. The university will provide reasonable accommodations to create equal opportunity for students with known disabilities. Faculty, administrators, and staff are employed without discrimination on the basis of race, color, gender, sexual orientation, religion, creed, national origin, age, veteran status, or disability unrelated to job requirements. The university will make reasonable accommodations to the known disability of an otherwise qualified applicant or employee. Additionally, the university will engage in affirmative efforts to recruit, admit, and support students, and to recruit, employ, and support employees, in order to achieve the diversity that advances the educational mission.

Castleton University complies with state and federal laws related to equal opportunity and non-discrimination. Any questions or complaints about potential or perceived discrimination in violation of any state or federal law should be directed to Janet Hazelton, Equal Opportunity Officer, Woodruff Hall, 802-468-1208; or the Vermont State Colleges Office of the Chancellor in Waterbury; or the Vermont Office of the Attorney General; or the Equal Opportunity Employment Commission in Washington, D.C. Please contact the Equal Opportunity Officer if auxiliary aid or service is needed to apply for admission or employment.

For a complete copy of the university's grievance procedures [click here](#). Copies are also available from the Human Resources office in Woodruff Hall and the Student Life Office in the Campus Center.