FALL SEMESTER

New and Returning Resident Students Check Into Residence Halls ................................................. August 16, 2012 (Thursday, 8 a.m.–4 p.m.)
Add/Drop Sessions ............................................................ August 17 (Friday, 2–5 p.m.)
Classes Begin ........................................................................ August 20 (Monday, 8 a.m.)
Last Day for Late Registrants ................................................ August 22 (Wednesday)
Change Period Ends (Five Class Days) .................................. August 24 (Friday)
Family and Community Weekend ........................................ September 21–23 (Friday–Sunday)
Last Day to Withdraw from First Seven-Week Courses ........ September 28 (Friday)
Fall Recess—NO CLASSES ................................................. October 8 (Monday)
Second Seven-Week Courses Begin ..................................... October 9 (Tuesday)
Midterm Grades Available for Students Online ...................... October 12 (Friday, Noon)
Pre-scheduling for Spring 2013 ............................................ October 29 through November 2 (Monday–Friday)
Last Day to Withdraw Without Academic Penalty ................... November 12 (Monday)
Thanksgiving Recess—NO CLASSES .................................. November 19–25 (Monday–Sunday)
Instruction Ends .................................................................. December 3 (Monday)
Final Exam Week ............................................................... December 4–8 (Tuesday–Saturday)
Residence Halls Close .......................................................... December 8 (Saturday, Noon)
Final Grades Available for Students Online .......................... December 12 (Wednesday, Noon)
Semester Ends ..................................................................... December 14 (Friday)
Last Day to Make Up Fall 2012 Incompletes ......................... February 4, 2013 (Monday)

SPRING SEMESTER

New Resident Students Check Into Residence Halls ................ January 17, 2013 (Thursday, Noon–4 p.m.)
Returning Resident Students Check Into Residence Halls .......... January 20 (Sunday, Noon–4 p.m.)
Add/Drop Sessions - Registrar's Office ................................ January 20 (Sun. 1–4 p.m.) Jan. 21–23 (Monday–Wednesday)
Classes Begin ..................................................................... January 21 (Monday)
Last Day for Late Registrants .............................................. January 23 (Wednesday)
Change Period Ends (Five Class Days) ................................. January 25 (Friday)
Winter Break—NO CLASSES .......................................... February 23 (Saturday, Noon) through March 3 (Sunday)
Last Day to Withdraw from First Seven-Week Courses .......... March 8 (Friday)
Second Seven-Week Courses Begin .................................... March 18 (Monday)
Midterm Grades Available for Students Online ..................... March 19 (Tuesday, Noon)
Spring Break—NO CLASSES ............................................. April 6–14 (Saturday, Noon–Sunday)
Pre-scheduling for Fall 2013 ................................................ April 22–26 (Monday–Friday)
Last Day to Withdraw Without Penalty ................................. April 26 (Friday)
Honors Convocation .......................................................... May 1 (Wednesday)
Instruction Ends ............................................................... May 10 (Friday, Noon)
Final Exam Week ............................................................... May 13–17 (Monday–Friday)
Commencement .................................................................. May 18 (Saturday, 10:30 a.m.)
Residence Halls Close ....................................................... May 18 (Saturday, 3:00 p.m.)
Final Grades Available for Students Online .......................... May 23 (Thursday, Noon)
Semester Ends .................................................................... May 24 (Friday)
Last Day to Make Up Spring 2013 Incompletes ..................... September 3, 2013 (Tuesday)
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**CATALOG DISCLAIMER**

Notwithstanding anything contained in this Catalog, SUNY Canton expressly reserves the right, wherever it deems advisable, (1) to change or modify its schedule of tuition and fees, (2) to withdraw, cancel, reschedule or modify any course, program of study, degree or any requirement in connection with the foregoing, and (3) to change or modify any academic or other policy. Please be advised that, due to printing deadlines, information in this Catalog may be outdated. Changes in information in this Catalog and new academic regulations, policies or programs will be published on campus and in each semester’s registration materials. It is the responsibility of each student to ascertain current information that pertains to the individual’s program, particularly with regard to satisfaction of degree requirements, through consultation with the student’s advisor, the office of the student’s dean, and other appropriate offices such as the Registrar or Financial Aid. In preparing this Catalog, efforts are made to provide pertinent and accurate information; however, SUNY Canton assumes no responsibility for Catalog errors or omissions.
SUNY Canton’s Mission and Goals

Great Majors. Great Careers.

MISSION STATEMENT

SUNY Canton is dedicated to providing a progression of accessible, affordable, high-quality applied programs that enable students in the North Country, New York State, and beyond to achieve their highest potential both personally and professionally.

VISION STATEMENT

Educating the leaders of tomorrow for careers in the global technological economy.

VALUES STATEMENT/DISTINCTIVE IDENTITY

We Value…
A Student-Centered Philosophy… by keeping students’ best interests at the center of everything that we do.
Excellence… by challenging everyone to perform at a consistently high level through continuous quality improvement.
Integrity… by treating others with honesty and respect during every interaction.
Success… by creating an environment that encourages maximum personal and professional growth and helps students translate that growth into meaningful action.
Diversity… by fostering a culture of inclusiveness that values individual differences, gives voice to all in the campus community, promotes the free exchange of ideas based on merit, and encourages a global perspective.
Access… by offering affordable career-oriented public higher education to motivated, mature and disciplined students through innovative delivery methods.
Sustainability… by implementing viable long-term options for resource usage, disaster management, transportation, and waste management in connection with all campus activities and weaving sustainability concepts throughout the curriculum.
Flexibility… by embracing change to better address the needs of the college community and society at large.

INSTITUTIONAL STUDENT LEARNING OUTCOMES

1. Communication Skills
2. Critical Thinking
3. Professional Competence
4. Inter-intrapersonal Skills

COLLEGE GOALS

• Offer programs in business, public service, health, liberal arts and engineering technologies that prepare students to enter rewarding careers and continue their education.
• Deliver a program of general education which provides a broad set of coherent and focused educational experiences aimed at enabling students to acquire knowledge and skills that are useful and important for all persons.
• Provide a community that enhances the development of leadership skills and creativity; encourages intellectual, ethical, and cultural growth; promotes an appreciation of our multicultural society; and advocates physical and emotional well-being.
• Promote excellence and innovation in teaching, advance scholarship and research, encourage continuous curricular evolution, and integrate technology into educational experiences.
• Design and implement extended and alternative programs to address the needs of national and international students, businesses, government agencies, and other specialized audiences.
• Advance the institution through philanthropic activities, external funding and cultivation of strong alumni relations.
CAMpus EnVIrOnMEnT

The State University of New York at Canton is a public, coeducational, residential college located on a spacious campus along the banks of the Grasse River. Its northern location places SUNY Canton close to the Adirondack Mountains, the St. Lawrence River, and major Canadian cities such as Ottawa and Montreal.

ACADEMICS

SUNY Canton is Northern New York's four- and two-year college for technology, health, management and public service. SUNY Canton offers more than 40 majors leading to bachelor's degrees, associate degrees, and one-year certificates. Numerous articulation agreements with other institutions provide further opportunities in fields such as business administration, forestry and medicine. Graduates of two-year programs are encouraged to enroll in bachelor's degree programs or begin their careers immediately.

SUNY Canton's 3,800 students are taught by faculty who have both outstanding academic credentials and excellent technical experience. Most have on-the-job professional experience, are licensed in their fields, and are current practitioners in their professions.

CAMpus EnVIrOnMEnT

Academic facilities include numerous classroom buildings containing many specialized labs for practice in technology-based disciplines. Southworth Library houses more than 65,000 books, 6,000 microforms, 300 periodical subscriptions and 1,500 video and audio recordings. The library provides access to an impressive number of electronic information research databases.

The Computer Center provides access for all students in open computer labs and networked computer classrooms. Students receive an email account and can access the Internet in computer labs or via wireless network access in most areas of campus, including all residence hall rooms. Tutoring services were rated #1 among other SUNY institutions in a student survey and are offered free of charge, enabling students to successfully adjust to college-level academic demands. Students can also check out laptop computers at the library.

New Construction: SUNY Canton's extraordinary recent growth has resulted in the construction of two new beautiful facilities. The College opened its $42 million athletic facility in July 2011. The massive building includes a brand new ice arena, fitness center, basketball courts, field house, and swimming pool. Other recent additions include a beautiful, lighted, synthetic turf field and a baseball field. The combination of great facilities will provide our sports teams the best training and playing options. SUNY Canton is expanding its sports offerings and added women's volleyball, men's golf, women's lacrosse and men's lacrosse in the 2011-12 academic year. That brings the total number of sports teams to 13, including men's and women's basketball, cross country, soccer; men's ice hockey, softball and baseball. The Kangaroos will add women's ice hockey in 2012-13.

Grasse River Suites is the name of the new 305-bed, apartment-style residence hall on campus. It opened in August 2011 and features all single rooms in three, four, and five bedroom suites.

The four existing residence halls were newly renovated for Fall 2008. They house 950 students in single rooms, doubles, triples and suites. Special theme floors allow students to select living and learning options best suited to their interests. There's even a residence hall that allows small pets. Chaney Dining Center provides meals for residential students, and snack bars located around the campus make it easy to grab a quick bite to eat.

There are numerous student clubs, and the Richard W. Miller Campus Center serves as the hub for a wide range of cultural and recreational activities. Since the campus is located in a residential community that welcomes college/community interaction, students find that SUNY Canton provides a fine blend of college learning and community involvement.

Many SUNY Canton alumni pursue careers in the technologies. Two-thirds of each graduating class choose to enter productive careers directly after graduation. Each year, nearly 100 percent of these graduates are successful in finding jobs for which SUNY Canton prepared them.

CAMpus HisToRy

Originally founded in 1906 as the School of Agriculture (SOA) at St. Lawrence University, SUNY Canton was the first postsecondary, two-year college in New York authorized by the Legislature. In 1941, SOA was renamed the New York State Agricultural and Technical Institute (ATI). ATI became a member college of the State University of New York in 1948. To recognize advanced technology programs added in the 1950s and '60s, the College underwent another name change in 1965, this time becoming the State University of New York Agricultural and Technical College at Canton or ATC. In 1987, the University’s Board of Trustees authorized yet another name change to the College's present designation as State University of New York College of Technology at Canton.

In 1997, SUNY Canton received bachelor’s degree granting approval from the SUNY Trustees and the Governor of New York State. Since then, more than 20 bachelor's degrees have been approved, and several others are in development. Three brand new bachelor's degree programs were recently approved for Fall 2011. SUNY Canton most recently added a bachelor of science degree in Applied Psychology which will begin being offered in Fall 2012.
LOCATION

The village of Canton is situated in the St. Lawrence Valley near the northern foothills of the Adirondack Mountains and the scenic Thousand Islands. The location is perfect for those who enjoy outdoor activities, which range from camping, boating and hiking to cross-country and downhill skiing. Lake Placid, site of the 1980 winter Olympics, is less than two hours away and offers a multitude of activities throughout the year. For those who wish to have a more metropolitan experience, Montreal and Ottawa are approximately two hours north across the Canadian border. These two cities provide a variety of attractions for shopping, plays and concerts as well as beautiful parks and recreational facilities.

The College is located on the outskirts of the village along the Grasse River, which adds to its beauty and relaxed atmosphere. The village is a short walk from campus and offers several unique shops and restaurants.

ACCREDITATIONS

SUNY Canton is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104-2680 — Telephone (267) 284-5000, Fax (215) 662-5501. The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

The Air Conditioning Engineering Technology, Civil Engineering Technology, Electrical Engineering Technology, and Mechanical Engineering Technology programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The Veterinary Science Technology program is accredited by the American Veterinary Medical Association. The National League of Nursing Accrediting Commission has accredited the Nursing, AAS program. The Physical Therapist Assistant program is accredited by the Commission on Accreditation in Physical Therapy Education. The Dental Hygiene, AAS program is accredited by The American Dental Association (ADA), Commission on Dental Accreditation (CODA). The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE).

Alumni Association

The Alumni Association maintains contact between the College and its alumni, keeping them informed about the College’s programs and activities and encouraging their participation.

The Association works with the Canton College Foundation in coordinating the College’s Annual Fund program to provide financial support for a variety of college activities. As a result of these efforts, funds can be provided for student scholarships and emergency loans, faculty research and special projects, and other activities in need of financial support.

Associated Colleges of the St. Lawrence Valley

SUNY Canton is a member of the Associated Colleges of the St. Lawrence Valley, a consortium that also includes Clarkson University, SUNY Potsdam, and St. Lawrence University. The Associated Colleges, with approximately 12,500 students in two villages 11 miles apart, expands opportunities through such activities as cross-registration for courses at the other three campuses, coordination of social events, and library privileges at all four college libraries.
## Degree Programs

### Bachelor’s Degrees (ACT/SAT Required)

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<td>Alternative &amp; Renewable Energy Systems, B. Tech.</td>
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<td>1965</td>
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<td>Applied Psychology, B.S.</td>
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<td>2235</td>
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<td>Civil and Environmental Technology, B. Tech.</td>
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<td>1359</td>
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<td>1911</td>
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<td>Criminal Justice: Law Enforcement Leadership, B. Tech.</td>
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<td>Dental Hygiene, 2 + 2, B. Tech.</td>
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<td>Electrical Technology, B. Tech.</td>
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<td>Health and Fitness Promotion, 2 + 2, B. Tech.</td>
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### Articulation Agreements

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<tr>
<th>Code</th>
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<th>Program Title</th>
<th>Prerequisite Regents Exams (NYS)</th>
<th>Precalculus (ACT/SAT)</th>
<th>Algebra (ACT/SAT)</th>
<th>Algebra II (ACT/SAT)</th>
<th>Biology (ACT/SAT)</th>
<th>Chemistry</th>
<th>Physics</th>
<th>English (ACT/SAT)</th>
<th>Associate Degree or Equivalent</th>
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### Certificate Programs

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<th>Code</th>
<th>Page</th>
<th>Program Title</th>
<th>Prerequisite Regents Exams (NYS)</th>
<th>Precalculus (ACT/SAT)</th>
<th>Algebra (ACT/SAT)</th>
<th>Algebra II (ACT/SAT)</th>
<th>Biology (ACT/SAT)</th>
<th>Chemistry</th>
<th>Physics</th>
<th>English (ACT/SAT)</th>
<th>Associate Degree or Equivalent</th>
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</thead>
</table>

*Refer to Programs of Study (pages 53-109) for specific requirements. **Selective Admission (see page 86, 94, and 104 for more information). If you have questions, are a transfer or an out-of-state student, please call the Office of Admissions (1-800-388-7123) for more information.
ADMISSION TO CANTON

Admission to the State University of New York at Canton is based on the academic and personal qualifications of applicants and is made without regard to sex, age, race, color, creed, national origin, sexual orientation, military status, or disability of individuals. Admission will be offered to qualified applicants whose academic preparation and experience indicate a foundation for success in their chosen curricula.

Candidates for admission to SUNY Canton must have earned a high school diploma with a preferred minimum 75 cumulative average or a high school equivalency (GED) with a minimum score of 245/2450. Please review the prerequisites listed for each program. All admissions decisions are subject to the discretion of the Director of Admissions. For students needing preparatory courses before being admitted to a program of interest, it may be necessary to extend the time needed to complete the academic program and to earn an associate or baccalaureate degree. This will not affect students enrolled in one-year certificate programs.

Admitted students will be required to submit a $100 enrollment deposit, which is refundable if students withdraw prior to May 1st.

Full-time SUNY Canton students selecting an associate degree must declare a major by the end of two semesters (24 college credit hours). Full-time students pursuing a baccalaureate degree must declare a major by the end of three semesters (36 college credit hours).

For more information, contact the Office of Admissions at 315-386-7123, 800-388-7123, or www.canton.edu.

DEGREES OFFERED

The College offers the opportunity for students to earn the degrees of Bachelor of Technology, Bachelor of Business Administration, Bachelor of Science, Associate in Applied Science, Associate in Science, Associate in Arts, or a Certificate of one-year study. While most curricula are available to new students only in the Fall Semester of each academic year, some may commence in either Fall or Spring semesters.

ADMISSION INTERVIEWS

Prospective students and their families are strongly encouraged to visit the campus and discuss college plans with an admissions counselor. Admissions interviews are offered Monday through Friday, as well as at Open Houses on select Fridays and Saturdays. The interview provides an opportunity to discuss curricula and career choices, college life, and financial aid at the College. All visiting students and their families will be offered a tour of the campus. Tours are offered regularly at 10 a.m. and 2 p.m., Monday through Friday.

Please contact the Office of Admissions at 800-388-7123 to schedule a visit.

HOW TO APPLY FOR ADMISSION

An application for admission may be completed online at www.canton.edu/apply or www.suny.edu/student. Paper copies can be obtained by contacting the Office of Admissions. In addition to the application form, applicants must submit all secondary school transcripts, showing date of graduation or score reports for the General Equivalency Diploma, and all previous college transcripts to the Office of Admissions at SUNY Canton.

WHEN TO APPLY FOR ADMISSION

Prospective students are encouraged to submit their application before April 1 for the fall semester and December 1 for the spring semester. Decisions with respect to admission are made on a rolling basis, unless otherwise specified. It is recommended that students apply as early as possible. An applicant for associate's in Dental Hygiene, Nursing, Physical Therapist Assistant, or Veterinary Science Technology is recommended to apply before the priority deadline of February 1st. Candidates for admission to the spring semester should note that it is not possible to commence studies in all curricula, and they should carefully review www.canton.edu for the listing of available spring-start programs.

ADMISSION AS FRESHMEN

Candidates for admission to the College must meet the following minimum requirements:

1. Be a graduate of a secondary school accredited by its State Education Department, hold a high school equivalency diploma (GED) with a minimum score of 245/2450, or meet certain home-school criteria.

IEP diplomas are not considered. Students with an IEP diploma must pass the GED with a score of 245/2450.

2. Have completed, with a satisfactory level of achievement, the minimum course prerequisites for the curriculum selected.

3. Demonstrate academic preparation necessary for success in the curriculum selected.

The most important criterion for admission as freshmen directly from high school is the secondary school record (grade point average, rank-in-class, pattern of course work). For candidates not applying directly from high school, additional criteria, such as an essay, may be required.

The Office of Admissions reserves the right to request additional information, and applicants may, of their own accord, submit additional supportive documents.
HOME-SCHOOLED STUDENTS

Home-schooled students must provide supplemental materials as part of their application for admission to SUNY Canton. Students of compulsory school age must provide one of the following:

1. A high school diploma from an accredited state secondary school.
2. Letter from Superintendent of Schools certifying that the student has completed the substantial equivalent of a four-year high school course. In addition, please provide a copy of the student’s coursework and any other documents that will aid in the decision process (e.g. ACT/SAT scores).

Students beyond compulsory school age must provide one of the following:

1. Option #1 as stated above.
2. Option #2 as stated above.
3. GED with a score of 245/2450.
4. Proof of passing and completing all requirements for the required five Regents examinations or approved alternative assessments for these examinations.
5. Completing 24 semester hours or the equivalent as a recognized college-level or certificate at a degree-granting institution.
6. Proof of previously earning and being granted a degree from a degree-granting institution.

The above is in compliance with section 3.47 of the Rules of Regents and with section 100.10 of the Regulations of the Commissioner of Education. In addition to submitting the above, students may be required to take the Accuplacer exam for placement purposes.

PLACEMENT TESTING

SUNY Canton does not require, but strongly encourages, prospective associate degree students to take the SAT or ACT exams. Prospective bachelor degree students are required to take either the SAT or ACT exams. All new, matriculated freshmen students will be assessed by Admissions for proper placement in English and Math courses, as well as Science courses where required. Students required to test will be notified after acceptance into the College. Information regarding the Accuplacer placement test can be found at www.canton.edu/placement_testing. Students may be exempt from the Accuplacer exam or locally produced placement exam if they meet the following criteria:

ENGLISH/READING:
• ACT scores of 21 or better on the English/Reading sections or
• SAT scores of 500 or better on the Verbal section or
• English Regents score of 80 or better

MATH:
• ACT score of 21 or better on the Math section or
• SAT score of 540 or better on the Math section or
• Math A Regents score of 80 or better and/or Integrated Algebra Regents score of 80 or better

ADVANCED PLACEMENT AND PROFICIENCY EXAMINATION CREDIT

SUNY Canton has a proficiency examination program to serve students who seek recognition for achievement acquired outside the conventional college classroom. Admission with advanced standing may be granted on the basis of satisfactory completion of College-Level Examination Program (CLEP) Subject Examinations, the Advanced Placement Program, both administered by the College Entrance Examination Board, and the International Baccalaureate (IB) examinations. Further, the College participates in selected Excelsior College Examinations (ECE) sponsored by the New York State Education Department. Interested students should check with the Office of Admissions regarding credits awarded for these examinations.

HONORS PROGRAM

The purpose of SUNY Canton’s Honors program is to attract and retain academically gifted students and provide them with an outstanding educational experience. The Honors program is designed to enhance student’s academic and personal growth. All Honors program students are required to abide by the following requirements:

• Maintain a minimum 3.2 GPA*
• Complete at least 15 hours of honors course credits for 4-year students by the completion of their academic program
• Complete at least 9 hours of honors course credits for 2-year students by the completion of their academic program
• Must have 85% participation in the Honors program seminars per academic year (i.e. faculty research presentations)
• Must have 85% participation in the Honors program non-seminar activities per academic year; complete an honors project or paper to be presented at the Scholarly Activities Fair
• Attend at least 3 honors events per semester on and off campus
• Fulfill at least 25 hours of community service by completion of their academic program for 4-year students
• Fulfill at least 15 hours of community service by completion of their academic program for 2-year students
• Inform the Honors Program Coordinator whenever their address (including phone number and email) or academic major changes
• Attend class regularly unless a legitimate excuse is given; maintain academic integrity

*If an honors student's GPA falls below 3.2, he or she will be placed on honors probation for a maximum of two semesters. Honors program students are expected to maintain a GPA of 3.2 to retain active status in the program. Each Honors program student's grades will be reviewed at the end of each semester. A letter will be sent informing the student of his/her status. Students on honors probation may not enroll for either honors independent study nor may they enter into an honors contract. If the GPA is still below 3.2 after two semesters, the student will be dismissed from the program.

Once eligible and accepted for the Honors program, students are encouraged to seek out honors contract courses. An honors contract course includes:

• Non-honors courses can be turned into honors courses through contracts to help satisfy Honors program requirements
• Agreement between a student and a faculty member
• It provides an opportunity for a student to complete an independent project in a non-honors class by further exploring related topics in an existing class

In general, honors contract courses satisfy more rigorous standards than are generally expected by the non-honors syllabus. An honors contract course should delve more deeply into the subject matter for the course addressing more sophisticated questions and methods. While the honors modifications to the course should fit within the content and intent of the course’s learning outcomes, the character and quality of the assignment should be augmented. Simply increasing the volume of work required does not constitute an honors activity; whenever possible, the honors assignments should be done as an alternative to some or all of the regular course assignments. An honors contract course should provide planned opportunities for the student to meet with the instructor to review, discuss, and revise, as needed, the honors components of the course.

ADMISSION PROCEDURES AND REQUIREMENTS FOR INTERNATIONAL STUDENTS

An application for admission may be completed online at www.canton.edu/apply or www.suny.edu/student. In addition to the application form, applicants must submit an autobiographical essay, secondary school transcripts (translated to English), and all previous college transcripts (must be translated to English and evaluated by a credential service, such as World Education Services, www.wes.org), to the Office of Admissions at SUNY Canton. A $40.00 non-refundable application fee (in U.S. funds) must accompany the application. This fee may not be waived for any reason. In the interest of time, it is recommended that the fee is paid by credit card when an online application is submitted. As an alternative method of payment, certified check can be made payable to SUNY ASC.

Students for whom English is a second language, a Test of English as a Foreign Language (TOEFL) score of at least 500 (paper), 173 (computer) or 61 (Internet-Based) is required for admission consideration. Other tests, such as IELTS, SAT, and ACT will be looked at for admission if the TOEFL is not offered in your area. To be assured for full consideration for Fall admission, the application must be submitted no later than July 15th. If applying for Spring admission, the application must be completed with all supporting documents no later than December 15th. It may take several months to obtain the appropriate visa, so it is recommended that students apply for admission as early as possible.

Additional supporting documents, such as a passport copy with the biographical information and photograph, and the Foreign Student Financial Statement will be required upon admission in order to obtain an I-20. These forms must be completed and certified by the appropriate financial institution. Please make sure the form is accurate and signed in all appropriate places to avoid delays with the I-20 processing.

The application will be reviewed when all required information is received. All supporting documents should be sent to Office of Admissions, SUNY Canton, 34 Cornell Drive, Canton, NY 13617-1098, USA

TRANSFER STUDENT ADMISSION

Applicants, who have previously registered at another college or university, following graduation from high school, are considered transfer students. In addition to completing the Application for Admission, transfer students must also submit an official transcript from every college or university previously attended and an official high school transcript with graduation date listed or high school equivalency score report. Transfer students must meet specific GPA and credit hour requirements for their program of application. Some degree programs have specific requirements for admission. Transfer students should contact the Office of Admissions for further information at 1-800-388-7123.

For all transfer students, equivalency credit for course work shall be determined by the respective School Dean. A preliminary evaluation of coursework will be sent after student’s admission or can be viewed on the student’s UCanWeb page or by contacting the SUNY Canton Registrar’s Office. Courses completed at another institution transfer only as credits, i.e., letter grades and quality points do not transfer.

The Office of Admissions reserves the right to request additional information, and applicants may, of their own accord, submit additional supportive documents.
Admissions

Readmission

Students are considered to be readmits if they meet one of the following criteria: (1) have not attended classes as a matriculated student at SUNY Canton for at least one semester and have not attended another college; (2) have graduated and have not attended another college since graduation; (3) planning to graduate from SUNY Canton and continue in a different degree program (i.e. associate’s degree to bachelor’s degree).

Students must complete a Readmission Application available at the Office of Admissions or online at www.canton.edu.

Credit For Prior Learning

From Other Institutions of Higher Learning

Applicants for admission who have attended other institutions of higher learning may be admitted with advanced standing depending upon the courses completed and grades earned. Applicants for advanced standing should apply for admission in the same way as other applicants; but in addition, they must request the Registrar of all institutions of higher learning which they have attended to forward official transcripts of work completed to the College. SUNY Canton accepts credit for courses transferred with a grade equivalent to a C or above at SUNY Canton. Prior credits which apply to an earned Associate’s degree, including grades of D and above, will be accepted in transfer and may be applied towards the total credits for a SUNY Canton bachelor’s degree. This policy may exempt credits received in the core curriculum when program specific grade requirements supersede this policy.

The College has formalized articulation agreements with a number of higher education institutions. Acceptance of satisfactorily completed credits taken at the prior institution is guaranteed upon transfer to SUNY Canton as specified in the applicable transfer agreement. Credit is awarded at the discretion of the School Dean.

Upon readmission, any new credit with a grade of C or better from a different institution of higher learning will be evaluated for transfer credit.

Change of Major

Upon changing a major, all prior college credit, both institutional and transfer, is evaluated for applicability to the new major. All prior SUNY Canton courses which do not meet requirements of the new major are excluded from credits earned and GPA calculations. Only those transfer credits which fulfill requirements of the new major will be recorded as transfer credit and included in credit hours earned. This policy pertains to all changes whether through readmission or change of major.

By Proficiency Examination

1. Published Examinations: Admission with advanced standing may be granted on the basis of satisfactory completion of published proficiency examinations. The College participates in the College Level Examination Program (Subject Examinations) and the Advanced Placement Program, both of which are administered by the College Entrance Examination Board; and the Regents College Proficiency Examination Program sponsored by the New York State Education Department.

2. Locally Developed Examinations: At the discretion of the school or departmental faculty, advanced standing may be granted for satisfactory completion of proficiency examinations developed by the College faculty and in accordance with the following policy:

   a. Locally designed and administered exams are available only to students who are matriculated at SUNY Canton.

   b. Such exams will consist of written and/or practical application tests as deemed appropriate.
Admissions

c. Any credit earned via such examinations will not be (a) counted as residency credit, included on official enrollment reports unless requested specifically, (c) included in a faculty member’s reported workload, and (d) used in calculating the campus FTE credit report.

d. Any credit earned must fulfill degree requirements.

e. Such exams will be administered prior to a student’s enrollment in the equivalent course for which a proficiency exam is requested.

f. Satisfactory completion of a locally designed and administered proficiency exam will be recorded on the student’s transcript following evidence of progress toward an educational objective.

g. A student is not permitted to enroll in or repeat the equivalent course for which a proficiency exam has been satisfactorily completed.

h. A student may not repeat the proficiency exam administered for a specific course or portion thereof if not satisfactorily completed.

i. Copies of all locally designed proficiency examinations will be placed on file with the Vice President for Academic Affairs and the appropriate School Dean.

j. Forty dollars ($40) per credit hour will be charged for all locally designed and administered proficiency examinations.

FROM SECONDARY SCHOOL

The College may grant credit for selected courses completed at the secondary level. Transfer credit will be conditional upon evaluation of in-kind courses and experiences by the appropriate Dean of the School in which the credit will be granted. Approved secondary course work will match or exceed that offered on campus. The course must be subject to an articulation agreement. Students requesting credit must demonstrate superior performance and have the recommendation of the appropriate secondary school faculty member and endorsement of the high school principal.

CREDIT FOR LIFE EXPERIENCES

Credit for Life Experiences may be granted to students enrolled in any program, at the discretion of the faculty of that program, a review committee, and the Dean of the School in which the program is located. NOTE: Students can apply for Life Experience Credit for a course only if a proficiency exam or a CLEP exam does not exist for that course. The maximum number of credit hours of Credit for Life Experiences that can be applied toward an associate degree is 15 and toward a baccalaureate degree is 30. Such credit will be evaluated according to the following procedure:

1. The student must apply for Life Experience Credit during the first semester of matriculation in the program. Applicants must complete the Application Form for Credit for Life Experiences and submit the form to the Dean of the School in which the program is located.

2. The Dean, in consultation with other Deans as appropriate, will arrange for an advisor selected from the School’s faculty to assist the students in preparing the necessary documentation in support of the number of credits requested. The portfolio must clearly evidence mastery of a preponderance of the learning outcomes as listed in the course outline(s) in order for a request to be viable.

3. The student will submit a formal letter of request and a portfolio containing all documentation and pertinent adjunct supportive material to the advisor within the first ten weeks of the student’s first matriculated semester. The student will be notified of the decision within five weeks after submitting the portfolio. Only enrollment during the College academic year will count as the first semester of matriculation (Summer school IS NOT part of the College academic year).

4. The portfolio will be evaluated by the review committee, which will be comprised of the advisor, a second faculty member of the School in which the program is housed, appointed by the advisor, and an Academic Standards Committee (ASC) faculty member, appointed by the Academic Standards Committee, who is not a member of the School in which the program is housed. The ASC member of the review committee may request review of the portfolio by the entire Academic Standards Committee.

5. The advisor will provide the review committee with a copy of the most recent appropriate course outline(s), including detailed learning objectives.

6. The review committee will submit its recommendation and the recommendation of the Academic Standards Committee, if appropriate, to the Dean of the School and forward a copy of the recommendation to the Provost.

a. Credit for Life Experiences cannot be granted for courses in which the applicant has been, or is, enrolled at SUNY Canton.

b. Credit determinations in discipline-related fields (e.g., electrical, humanities, social work, etc.) will be made by faculty members in the respective or related department.

7. Following the decision of the Dean, a notice will be forwarded to the student, the advisor, the Provost, and the Registrar regarding the amount of credit granted and the courses for which the credit will be counted in the student’s program.

8. Forty dollars ($40) per credit hour will be charged for the review of the materials. This fee must be paid and registration procedures completed prior to the beginning of the review.

9. Forty dollars ($40) per credit hour will be
charged for prior learning credit granted. This fee must be paid prior to the granting of credit.

10. Credit will be recorded as “CR” on the student’s official transcript under the appropriate course number, but only following the satisfactory (2.0) completion of one full-time semester or its equivalent in the student’s program.

**MILITARY TRAINING AND EXPERIENCE**

The College may grant advanced standing for military training and experience as recommended by the American Council on Education. Where courses, service school experience, or subject matter exams are applicable to a curriculum in which a student is enrolled at this college, credit will be determined using the publication “Guide to the Evaluation of Educational Experiences in the Armed Services.”

**MANNER OF RECORDING ADVANCED STANDING**

Official transcripts of this college will include the appropriate number of credits granted for (1) courses transferred in from other higher education institutions, (2) proficiency examinations completed satisfactorily, (3) validated life experiences, and/or (4) military training and experience as “CR” credit only and be excluded in the calculation of a student’s cumulative honor point index.

**EARLY ADMISSION PROGRAM**

Early admission will be granted to an applicant who has completed grade eleven of an accredited secondary school, meets the admission criteria for the program applied for, has maintained a strong academic average, and is recommended for college by the principal or guidance counselor. A contract detailing specific arrangements for completing the requirements for high school graduation must be made between the student, the high school principal, and the Director of Admissions. For further information, please contact the Office of Admissions. Arrangements for this contract are the responsibility of the applicant. Students are not eligible to receive financial aid until after their high school class graduates. The Early Admission Program was established to offer high school seniors an academic challenge and to jump-start their college career.

**SUNY UPSTATE MEDICAL UNIVERSITY COLLEGE OF HEALTH PROFESSIONS EARLY ADMISSION PROGRAM**

The SUNY Upstate Medical University Early Admission Program with SUNY Canton is a joint admissions program whereby students enroll at SUNY Canton for two years, complete an associate degree, and are then guaranteed admission into one of the SUNY Upstate Medical University College of Health Professions upper division programs. An exception to this is the Doctorate of Physical Therapy which requires a bachelor’s degree prior to entry into the DPT Program at Upstate Medical University.

The degree programs offered through the College of Health Professions Early Admission Program are: Cardiovascular Perfusion, Medical Imaging Services, Medical Technology, Nursing, Radiation Therapy Technology, Respiratory Therapy and Cardiorespiratory Sciences, and Physical Therapy DPT.

This program is a unique opportunity for students with a demonstrated commitment to a career in the health professions and a strong record of achievement in high school. Students accepted into this program are required to have completed at least three years of Regents or honors level courses in math and science. Students applying to the Early Admissions Program should be in the upper quartile of their class and should have competitive SAT scores. They must demonstrate a strong leadership background and show participation in extracurricular activities.

To apply for the SUNY Upstate Medical University College of Health Professions Early Admissions Program, students must complete the SUNY application for admission applying for Liberal Arts & Science: General Studies at SUNY Canton noting joint admission with SUNY Upstate Medical University at Syracuse. THE STUDENT DOES NOT COMPLETE THE SUNY APPLICATION FOR UPSTATE MEDICAL UNIVERSITY. The student must contact the Office of Admissions, Upstate Medical University at Syracuse, (315) 464-4670, to request application materials specifically for the Early Admission Program. An admissions interview will be required.

For further details, contact the SUNY Canton Office of Admissions, 315-386-7123 or 800-388-7123.

**EX-OFFENDERS/DISCIPLINARY DISMISSAL FROM COLLEGE**

Potential students who are ex-offenders or have been dismissed for disciplinary reasons from a college will have their application reviewed under a policy established in accordance with section 23A of the New York State Correction Law. Copies of this policy are available from the Office of Admissions. Individuals who are ex-offenders or have been dismissed for disciplinary reasons from a college and who wish to apply are required to identify themselves as such and should request a copy of the policy. Individuals who do not disclose this information prior to admission may have their admission rescinded at the discretion of the Administration.
## Articulation Agreements

### 4+1 Programs

SUNY Canton has established agreements with master's degree programs at SUNYIT. These agreements provide graduates of SUNY Canton's baccalaureate degrees advanced standing in master's degree programs. Once admitted by SUNYIT, some of the courses taken in the student's baccalaureate degree program will transfer into the master's degree program. For more information regarding this program, please contact the Dean of Business and Liberal Arts.

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<th>SUNY CANTON</th>
<th>SUNYIT</th>
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<tr>
<td>Finance Management</td>
<td>Masters of Science in Health Services Admin. (MSHSA)</td>
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<td>Finance Management</td>
<td>Masters in Business Administration (MBA)</td>
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<tr>
<td>Finance Management</td>
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### 2+2 Programs

SUNY Canton has established articulation agreements with community colleges, whereby students, upon completion of an associate degree at the community college, can transfer into a SUNY Canton baccalaureate program.

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<th>SUNY CANTON</th>
<th>SUNY CANTON BACHELOR DEGREE</th>
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<tr>
<td>Radiologic Technician</td>
<td>Health Care Mgmt.</td>
</tr>
<tr>
<td>Nursing</td>
<td>Health Care Mgmt.</td>
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<tr>
<td>Criminal Justice: Police Science</td>
<td>Criminal Investigation</td>
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</tbody>
</table>

### Table of Programs

<table>
<thead>
<tr>
<th>SUNY CANTON</th>
<th>SUNY CANTON BACHELOR DEGREE</th>
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<tbody>
<tr>
<td>BROOME COMM. COLLEGE</td>
<td>Dental Hygiene, AAS &amp; AAS</td>
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<td>SUNY CANTON</td>
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<tr>
<td>CLINTON COMM. COLLEGE</td>
<td>Individual Studies: Sport Management, AAS</td>
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<td>SUNY CANTON</td>
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<td>CONCORDE CAREER COLLEGE</td>
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<tr>
<td>FINGER LAKES COMM. COLLEGE</td>
<td>Bus. Admin., AS &amp; AAS</td>
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<tr>
<td>FULTON-MONTGOMERY COMM. COLLEGE</td>
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<td>SUNY CANTON</td>
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<tr>
<td></td>
<td>Business Admin., AS &amp; AAS</td>
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<tr>
<td></td>
<td>Finance or Management</td>
</tr>
<tr>
<td></td>
<td>Liberal Arts &amp; Sci.: General Studies</td>
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<td>Management</td>
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<td></td>
<td>Criminal Justice</td>
</tr>
<tr>
<td></td>
<td>Criminal Investigation</td>
</tr>
<tr>
<td>HARPER COLLEGE</td>
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<td>SUNY CANTON</td>
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<td>HERKIMER COMM. COLLEGE</td>
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<tr>
<td></td>
<td>Business Admin., AS &amp; AAS</td>
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<td>Small Business Mgmt.</td>
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<td></td>
<td>Criminal Justice</td>
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<tr>
<td></td>
<td>Criminal Investigation</td>
</tr>
<tr>
<td></td>
<td>Paralegal, AAS</td>
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<td>Legal Studies</td>
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<tr>
<td>JEFFERSON COMM. COLLEGE</td>
<td>Accounting, AAS</td>
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<tr>
<td></td>
<td>Business Admin., AS &amp; AAS</td>
</tr>
<tr>
<td></td>
<td>Finance or Management</td>
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<tr>
<td></td>
<td>Paralegal, AAS</td>
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<tr>
<td></td>
<td>Legal Studies</td>
</tr>
<tr>
<td></td>
<td>Criminal Justice, AS; Fire Protection, AS; or Humanities and Social Sciences, AA</td>
</tr>
<tr>
<td></td>
<td>Emergency Management</td>
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<tr>
<td>JOHNSON COLLEGE</td>
<td>Veterinary Sci. Tech.</td>
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<tr>
<td>SUNY CANTON</td>
<td>Veterinary Services Mgmt.</td>
</tr>
<tr>
<td>NORTHCENTRAL COMM. COLLEGE</td>
<td>Dental Hygiene, AAS</td>
</tr>
<tr>
<td>SUNY CANTON</td>
<td>Dental Hygiene, B.Tech.</td>
</tr>
<tr>
<td>NORTHHAMPTON COMM. COLLEGE</td>
<td>Dental Hygiene, AAS</td>
</tr>
<tr>
<td>SUNY CANTON</td>
<td>Dental Hygiene Degree</td>
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<tr>
<td>PASADENA CITY COLLEGE</td>
<td>Dental Hygiene, AS</td>
</tr>
<tr>
<td>SUNY CANTON</td>
<td>Dental Hygiene, B.Tech.</td>
</tr>
<tr>
<td>ST. JOSEPH’S SCHOOL OF NURSING</td>
<td>Nursing, AAS</td>
</tr>
<tr>
<td>SUNY CANTON</td>
<td>Nursing, BS</td>
</tr>
<tr>
<td>SCHENECTADY COUNTY COMM. COLLEGE</td>
<td>Paralegal, AAS</td>
</tr>
<tr>
<td>SUNY CANTON</td>
<td>Legal Studies</td>
</tr>
<tr>
<td>SUFFOLK COUNTY COMM. COLLEGE</td>
<td>Nursing, AAS</td>
</tr>
<tr>
<td>SUNY CANTON</td>
<td>Nursing, BS</td>
</tr>
</tbody>
</table>
SUNY Canton has also established articulation agreements with several four-year colleges whereby a SUNY Canton student, upon completion of the associate degree and specified courses, can transfer to a participating four-year college in a parallel program with junior-level status.

The colleges which participate with SUNY Canton in the 2+2 programs are:

- SUNY Alfred
- Empire State College
- Clarkson University
- SUNY Cobleskill
- Mercy College
- Paul Smiths College
- Houghton College
- SUNY Morrisville
- SUNY College of Agriculture and Life Sciences at Cornell
- SUNY Upstate Medical University at Syracuse
- SUNY College of Environmental Science & Forestry at Syracuse
- SUNY Institute of Technology at Utica-Rome
- SUNY Oswego
- SUNY Plattsburgh
- SUNY Potsdam

Examples of other colleges SUNY Canton graduates transfer to include:
- Rensselaer Polytechnic Institute
- Rochester Institute of Technology
- SUNY Binghamton
- SUNY Buffalo

Admission is not guaranteed in a 2+2 agreement. Students must meet specific criteria as outlined in the signed agreement between the two institutions, as is the case with us in receiving 1+1 candidates from community colleges. Those interested in further information regarding these programs should contact SUNY Canton’s Office of Admissions.

1+1 ASSOCIATE DEGREE PROGRAMS

SUNY Canton has established a variety of cooperative program agreements with other institutions of higher education. Arrangements have been made with several community colleges whereby students take one year at the first college and the final year at SUNY Canton, from which the associate degree is granted.

A separate application must be filed for each year. For further information concerning this program, please contact the Office of Admissions.

ARTICULATION AGREEMENTS WITH BOCES

Currently, SUNY Canton has signed agreements with the following BOCES Centers. Students are encouraged to speak to their guidance counselor to learn the specifics about the agreement for their particular program and BOCES Center. We are continuously adding to our list of participating centers, therefore, students should check with their counselor to determine whether a particular center has established an agreement since this printing.

- Adirondack Educational Center
- Broome-Tioga Occupational Technical Center
- Burton Ramer Technical Career Center
- Cayuga-Onondaga BOCES
- Champlain Valley Education Services (CV-TEC)
- Charles G. May Center
- Chenango Campus
- Columbia-Greene Educational Center
- Eastern Monroe Career Center
- Finger Lakes Technical & Career Center
- Genesee Valley BOCES
- Harkness Center
Admissions

- Howard G. Sackets Technical Center
- Jefferson Lewis BOCES
- Kenton Center
- Myers Education Center
- North Franklin Educational Center
- Northwest Tech
- Onondaga-Cortland-Madison, Syracuse
- Onondaga-Cortland-Madison, Cortland
- Oneida-Herkimer-Madison
- Potter Road Occupational Center
- Rensselaer Educational Center
- Robert W. Harrold Education Campus
- John W. Harrold Education Campus
- Yandon - Dillion Education Center
- St. Lawrence Lewis BOCES
- Seaway Tech
- Southern Adirondack Education Center
- Sullivan County Vocational Technical Center
- TEC Center
- Vocational Educational Center
- Washington-Saratoga-Warren-Hamilton-Essex
- Wayne Technical & Career Center

<table>
<thead>
<tr>
<th>BOCES Program</th>
<th>SUNY CANTON Curriculum</th>
<th>Course—Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Sci./Veterinary Assistant</td>
<td>Veterinary Science Tech. Health Science Career Studies</td>
<td>Intro. to Animal Agriculture—2</td>
</tr>
<tr>
<td>Auto Tech./Auto Mech Auto Service</td>
<td>Auto Tech.</td>
<td>Auto Services—2 Auto Services Lab—1</td>
</tr>
<tr>
<td>Building Trades</td>
<td>Construction Tech., Mgt.</td>
<td>Wood Structures—3</td>
</tr>
<tr>
<td>Metallworking Tech.</td>
<td>Automotive Technology</td>
<td>Basic Welding—2</td>
</tr>
<tr>
<td>Heating, Ventilation, Air, CAD/CAM (Computer Drafting)</td>
<td>Air Cond.</td>
<td>Refrigeration—2 Intro. to CAD &amp; Design—2</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>Early Childhood</td>
<td>Wellness in Young Children—3 Planning Programs—3</td>
</tr>
<tr>
<td>Certified Nursing Assistant, Health Occupations/ Nurse Aid, Allied Hlth.</td>
<td>Hlth Care Mgt., Hlth Science Career Studies, Individual Studies-Hlth.</td>
<td>Medical Terminology of Disease—3</td>
</tr>
<tr>
<td>Graphic Communications/Visual Communications</td>
<td>Graphic &amp; Multimedia Design</td>
<td>Introduction to Design—3 Digital Photography—3</td>
</tr>
<tr>
<td>Practical Nursing</td>
<td>Nursing</td>
<td>Adaptation Nursing I–6</td>
</tr>
<tr>
<td>Pre-Engineering</td>
<td>Engineering Programs</td>
<td>College Physics I w/ Lab—4</td>
</tr>
</tbody>
</table>

^1 Proficiency Exam required.

**INTERNATIONAL PARTNERSHIPS**

SUNY Canton provides students outside the United States with the ability to earn a bachelor’s degree from the College through dual-degree programs. The classes are taught using different methods of technology, including SUNY Canton OnLine (SUNY Canton OL) and distance learning video technologies. Students at these institutions earn a bachelor’s degree from both their home institution and SUNY Canton.

Additional dual-diploma partnerships are currently under review. Please visit our website at www.canton.edu/international for updated information.

<table>
<thead>
<tr>
<th>INTERNATIONAL PARTNER COLLEGE</th>
<th>DUAL-DEGREE PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moscow State Univ., Moscow, Russia</td>
<td>Management Finance</td>
</tr>
<tr>
<td>Kazan State Financial and Economics Institute</td>
<td>Finance</td>
</tr>
<tr>
<td>Yalta University of Management, Yalta, Ukraine</td>
<td>Management Finance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER COLLEGES</th>
<th>ASSOCIATE DEGREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Institute of Health Sciences, Welisara, Sri Lanka</td>
<td>Physical Therapist Assistant</td>
</tr>
</tbody>
</table>
The College currently has SOCAD agreements with the Department of Defense for the Automotive, Criminal Investigation and Health Care Management programs.

Additionally, the college participates in the degree completion agreement program with SOC. Qualified service members and their dependents are guaranteed the ability to complete their SUNY Canton degree at any SOC member institution after they have met residency requirements at the college.

**CONCURRENT ADMISSIONS (CON AP)**

The Concurrent Admissions Program (CON AP) is conducted by colleges and universities that are members of Service-members Opportunity Colleges (SOC). Concurrent with their enlistment in the Army, new soldiers are encouraged to apply for admission to SUNY Canton. Upon meeting satisfactory criteria for full or provisional admission, the soldier will be allowed to defer admission until completion of military service.

After completing a two-, three-, or four-year enlistment, the new veteran will be encouraged to enroll at SUNY Canton. This program also applies to soldiers enlisting in the Army Reserve.

**AIR FORCE RESERVE OFFICER TRAINING CORPS (AFROTC)**

**AEROSPACE STUDIES**

Air Force Reserve Officer Training Corps (AFROTC) combines college study with military leadership, discipline, and training to produce officers and leaders for the United States Air Force. Upon graduation with at least a bachelor’s degree, students are commissioned as second lieutenants in the Active Duty Air Force. AFROTC Detachment 536 is hosted by Clarkson University and available to SUNY Canton students through cross registration. Enrollment is voluntary and cadets not on scholarship or participating in the Professional Officer Course incur no military obligation and can withdraw at any time. For more information or to enroll in the program, call 315-268-7989.

**CURRICULUM**

AFROTC is normally a four-year program divided into two portions, General Military Course (GMC) for freshman and sophomores, and Professional Officer Course (POC) for juniors and seniors. Cadets also complete Leadership Laboratory (LLAB) each semester. Students can enroll as sophomores and will take both GMC classes. Based on Air Force needs, students may be allowed to enroll as late as the start of their junior year with the GMC curriculum covered during an extended Field Training session.

GMC classes are one credit hour each semester; they cover the Air Force mission and organization, customs and courtesies, correspondence, and drill and ceremonies, and trace the history of air power from the Wright Brothers’ first flight at Kitty Hawk to recent operations in Afghanistan and Iraq.

POC classes are three credit hours each semester; they cover an in-depth study of leadership and management concepts, and introduce cadets to national security concepts and issues, military law, the law of armed conflict, and preparation for entrance into the Active Duty Air Force.

LLAB is two-hours each week for GMC cadets, three hours each week for POC cadets. LLAB is a hands-on leadership training program. POC cadets plan and execute 13 labs each semester along with other extracurricular activities like formal dinners and awards ceremonies. Cadets participate in physical training two hours each week as part of the LLAB curriculum.

**FIELD TRAINING**

After completing the GMC, cadets normally attend Field Training during the summer between the sophomore and junior year. Field Training is an intense four-week hands-on leadership challenge. Cadets are exposed to a variety of challenges to force them to work as a team, learn to critically evaluate situations, and perform under stress and are evaluated on mastery of military cus-
SCHOLARSHIPS/FINANCIAL SUPPORT
Multi-year scholarships are available and based on military and academic merit, not on financial need. They vary from $3,000 to full tuition and include a yearly book stipend. Scholarship cadets or POC cadets without a scholarship receive a Monthly Stipend during the academic year.

OTHER ACTIVITIES
Cadets can receive up to eight hours of no-cost flight instruction through the Civil Air Patrol. Each year, the cadet wing visits an Air Force Base to see first hand how the Air Force works and these trips can include flights on a variety of military aircraft. Cadets also compete for summertime opportunities to earn parachute wings (free-fall and airborne) or to travel to overseas bases at no cost.

ARMY RESERVE OFFICER TRAINING CORPS (AROTC)
MILITARY SCIENCE
The Clarkson University Army Reserve Officers Training Corps (AROTC) is available to SUNY Canton students through cross-registration and teaches military subjects, physical conditioning, and leadership skills. The goal of the department is to develop leadership and managerial ability, while preparing students to become Officers in the U.S. Army. The program seeks students who have excelled academically and athletically, and have shown leadership in their activities. AROTC provides opportunities to participate in challenging training including tactical training with paintball, map reading and land navigation, physical fitness training, and various field leadership exercises. Qualified students have an opportunity for adventure training like the Army Airborne School, cultural immersion program, and military internships along with regular training and class work. AROTC allows students maximum flexibility to include ROTC in their various courses of study.

ADVANCED COURSE (Junior and Senior Years)
The Advanced Course places increased emphasis on tactical, technical, and leadership skills to prepare students for a five-week Leadership Development and Assessment Course (LDAC) normally attended during the summer between their junior and senior years. Students spend their senior year of AROTC acting as part of the Battalion staff, planning and executing the training for the underclassmen and preparing the juniors for LDAC. The Advanced Course is a unique leadership course that provides you with hands on practical leadership with constant feedback and mentorship. Students who take the Advanced Course are required to make a commitment to serve in the Army upon graduation, and, in return, you will be paid $450 to $500 a month for participating in the Advanced Course.

SCHOLARSHIPS
The U.S. Army ROTC program has two-year and three-year scholarships available to qualified students. They are awarded based on merit and academic potential, not on need. Students can compete for three-year scholarships during their freshman year and two-year scholarships during their sophomore year or at LTC. To compete for these scholarships students must enroll in ROTC class, pass medical and physical assessments, and exhibit the leadership attributes and dedication that the Army looks for in their leaders.

For more information, contact the Scholarship and Enrollment Officer at (315) 265-2180 or email armyrotc@clarkson.edu.
The following are estimated costs of attending SUNY Canton for 2012-13. All costs are subject to change without notice.

TUITION

<table>
<thead>
<tr>
<th></th>
<th>1st SEMESTER</th>
<th>2nd SEMESTER</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYS Resident</td>
<td>$2,785.00</td>
<td>$2,785.00</td>
<td>$5,570.00</td>
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<tr>
<td>Out-of-State Resident (Bachelor)</td>
<td>7,410.00</td>
<td>7,410.00</td>
<td>14,820.00</td>
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<tr>
<td>Out-of-State Resident (Associate)</td>
<td>4,870.00</td>
<td>4,870.00</td>
<td>9,740.00</td>
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COMPREHENSIVE STUDENT FEE*

<table>
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<tr>
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<th>1st SEMESTER</th>
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<th>TOTAL</th>
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<tbody>
<tr>
<td>First Time Students</td>
<td>719.50</td>
<td>639.50</td>
<td>1,359.00</td>
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<tr>
<td>Continuing Students</td>
<td>639.50</td>
<td>639.50</td>
<td>1,279.00</td>
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ADDITIONAL FEES

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<th>Service</th>
<th>1st SEMESTER</th>
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<tbody>
<tr>
<td>Transcript Fee (billed each semester)</td>
<td>5.00</td>
<td>5.00</td>
<td>10.00</td>
</tr>
<tr>
<td>Graduation Fee (seniors only and optional)</td>
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<td>10.00</td>
<td>10.00</td>
</tr>
<tr>
<td>Parking &amp; Vehicle Registration Fee</td>
<td>191.90</td>
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<td>191.90</td>
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<tr>
<td>Accident &amp; Sickness Insurance</td>
<td>654.00</td>
<td>654.00</td>
<td>1,308.00</td>
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<tr>
<td>International Health Insurance</td>
<td>572.00</td>
<td>800.00</td>
<td>1,372.00</td>
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MEALS**

<table>
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<tr>
<th>Residence</th>
<th>1st SEMESTER</th>
<th>2nd SEMESTER</th>
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<tbody>
<tr>
<td>Smith, Mohawk, Heritage, Rushton</td>
<td>2,120.00</td>
<td>2,120.00</td>
<td>4,240.00</td>
</tr>
<tr>
<td>(10 meals/wk &amp; $425 Roo Express, 14 meals/wk &amp; $350 Roo Express, or 18 meals/wk &amp; $275 Roo Express)</td>
<td></td>
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</tr>
<tr>
<td>Grasse River Suites</td>
<td>1,550.00</td>
<td>1,550.00</td>
<td>3,100.00</td>
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<tr>
<td>(5 meals per week &amp; $800 Roo Express)</td>
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<tr>
<td>Commuter Meal Plan – optional</td>
<td>519.00</td>
<td>519.00</td>
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<tr>
<td>(4 meals per week)</td>
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HOUSING

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<thead>
<tr>
<th>Residence</th>
<th>1st SEMESTER</th>
<th>2nd SEMESTER</th>
<th>TOTAL</th>
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</thead>
<tbody>
<tr>
<td>Smith, Mohawk, Heritage, and Rushton Residence Halls</td>
<td>3,150.00</td>
<td>3,150.00</td>
<td>6,300.00</td>
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<tr>
<td>Double Room (standard)</td>
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<tr>
<td>Triple Room</td>
<td>2,750.00</td>
<td>2,750.00</td>
<td>5,500.00</td>
</tr>
<tr>
<td>Suite Room</td>
<td>3,550.00</td>
<td>3,550.00</td>
<td>7,100.00</td>
</tr>
<tr>
<td>Single Room</td>
<td>4,700.00</td>
<td>4,700.00</td>
<td>9,400.00</td>
</tr>
<tr>
<td>Grasse River Suites</td>
<td>4,120.00</td>
<td>4,120.00</td>
<td>8,240.00</td>
</tr>
<tr>
<td>Laundry Fee</td>
<td>45.00</td>
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<td>90.00</td>
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* See description below.  ** Resident students are required to purchase the Meal Plan.

FEES

COMPREHENSIVE STUDENT FEE

The comprehensive Student Fee is charged to all degree students and consists of the following fees:

<table>
<thead>
<tr>
<th>Service</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>College Fee (mandatory)</td>
<td>Fee required by all State-operated campuses.</td>
</tr>
<tr>
<td>Athletic Fee (mandatory)</td>
<td>Supports all athletic programs.</td>
</tr>
<tr>
<td>Health Fee (mandatory)</td>
<td>Supports the campus health Center. Students can use the health center for minor illness/injuries with no additional charge.</td>
</tr>
<tr>
<td>Technology Fee (mandatory)</td>
<td>Supports the campus technology infrastructure and continued improvement of computer systems, classroom technology, wireless connections and technical help.</td>
</tr>
<tr>
<td>Student Activity Fee (mandatory)</td>
<td>Supports a wide range of activities that take place on campus for educational and entertainment purposes.</td>
</tr>
<tr>
<td>Transcript Fee (billed each semester)</td>
<td>5.00</td>
</tr>
<tr>
<td>Graduation Fee (seniors only and optional)</td>
<td>—</td>
</tr>
<tr>
<td>Parking &amp; Vehicle Registration Fee</td>
<td>191.90</td>
</tr>
<tr>
<td>Accident &amp; Sickness Insurance</td>
<td>654.00</td>
</tr>
<tr>
<td>International Health Insurance</td>
<td>572.00</td>
</tr>
</tbody>
</table>

LATE REGISTRATION FEE

Should a student fail to register by the appropriate deadline, a $40 late registration fee will be assessed.

LATE PAYMENT FEE

Should a student fail to process a bill by the appropriate deadline, a $40 late payment fee will also be assessed. This includes...
those checks used as payment of fees on or before a registration but returned by the bank as unpaid after registration day. A $20 charge will be assessed for each check used for payment of fees which has been returned from a bank as unpaid.

**BILL PAYMENT**

Your student bill is required to be paid by the bill due date indicated on the semester bill. Bills received after these dates will be subject to a $80 late payment/registration fee and cancellation of class schedule and room assignment. If you wish to request a special deferment for payment, you should make arrangements with the Student Service Center **BEFORE** the bill due date. All deferments must be paid in full by the end of the semester for which it was made. Students not meeting the terms of their deferment may be subject to penalty during the semester. Penalties include, holds on accounts for transcripts, holds on meal plans and Roo Express credit, and possible suspension.

**DROP/ADD FEE**

A fee of $20 will be assessed for each Drop/Add Form processed beginning the second week of classes. Exceptions to this fee are noted in the Student Handbook.

**IDENTIFICATION CARD REPLACEMENT CHARGE**

An original identification card is provided at no charge. A $10 charge will be assessed to replace the card.

**ACCIDENT & SICKNESS INSURANCE**

Medical insurance coverage is mandatory for full time students not covered by other insurance but **OPTIONAL** for part-time students. If your enrollment status changes from full-time to part-time (for any reason), you are not charged automatically for domestic health insurance. As a part-time student, you must request coverage, in writing, at the Student Service Center. All full-time students are charged for health insurance unless a completed waiver is submitted to the Student Service Center before the end of the first week of school. Waivers must be completed each semester as part of the tuition billing process.

**TUITION/FEE REDUCTIONS DUE TO WITHDRAWAL**

**TUITION**

Reduce as follows:

<table>
<thead>
<tr>
<th>Cancellation During</th>
<th>Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>First week</td>
<td>100%</td>
</tr>
<tr>
<td>Second week</td>
<td>70%</td>
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<tr>
<td>Third week</td>
<td>50%</td>
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<tr>
<td>Fourth week</td>
<td>30%</td>
</tr>
<tr>
<td>Fifth week</td>
<td>0%</td>
</tr>
</tbody>
</table>

The first day of class session shall be considered the first day of the semester. Seven calendar days later will be deemed the end of the first week for reduction purposes. For students taking only off-campus courses with a later starting date, the refund period shall start with the first scheduled day of class.

**SUNY COLLEGE FEE, ORIENTATION FEE, INTERNATIONAL HEALTH INSURANCE, ALUMNI FEE, PLACEMENT FEE, AND VEHICLE REGISTRATION FEE**

Non-refundable.

**SCA ACTIVITY, PARKING, INTER-COLLEGIATE ATHLETIC, STUDENT HEALTH, RECREATIONAL FACILITIES, AND EDUCATIONAL TECHNOLOGY FEES**

Reduced on the same percentage as tuition.

**ACCIDENT AND SICKNESS INSURANCE**

Except for medical withdrawal due to a covered injury or sickness, any student withdrawing from school during the first 31 days of the period for which coverage is purchased shall not be covered under the policy and a full refund of the premium will be made. After such 31 days, all students will remain covered under the policy for the full period for which premium has been paid, and no refund will be allowed.

Insured persons entering the Armed Forces of any country will not be covered under the policy as of the date of such entry. A pro-rata refund of premium will be made for such person upon written request received by the company within 90 days of withdrawal from school.

**MEAL TICKET REFUND**

Refunds will only be allowed for withdrawal from school or academic dismissal. Refunds due to the removal of a student from the residence hall for either academic or disciplinary reasons is at the discretion of College Association management.

The refund will be based on the point value of the meal plan less a 15% (fifteen percent) fee for processing and administration charges when the refund is approved and the check is drawn. The refund will be based on the official date of withdrawal or dismissal as recorded by the Student Service Center.

Students who advance register, but who do not subsequently attend the College, will receive a full refund of their entire dining meal plan payment. Transfers of funds from one student’s account to that of another student are not permitted.

**HOUSING: RESIDENCE HALL**

Upon official withdrawal from the College, residence hall reductions are on a percentage basis as follows:

<table>
<thead>
<tr>
<th>Cancellation During</th>
<th>Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>First week</td>
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<td>Fourth week</td>
<td>30%</td>
</tr>
<tr>
<td>Fifth week</td>
<td>0%</td>
</tr>
</tbody>
</table>

Residence hall opening day shall be con-
sidered the first day of the semester. Seven calendar days later will be deemed the end of the first week for refund purposes.

**LAUNDRY FEE**
Non-refundable.

**TITLE IV REFUND POLICY**
Under Federal Financial Aid rules, the college recalculates Federal* financial aid eligibility for students who withdraw, drop out, are dismissed or take a leave of absence prior to completing 60% of a semester. Recalculation is based on the percent of earned aid using the following formula:

Percent earned = Number of days completed up to the withdrawal date**/total days in the semester (including weekends and breaks under five days).

Federal financial aid is returned to the federal government based on the percent of unearned aid using the following formula:

Aid to be returned = (100% − percent earned) X the amount of aid disbursed toward institutional charges.

When aid is returned, the student may still owe a balance to the College. The student should contact the Student Service Center to make arrangements to pay the balance. Also note that students who cease attendance but do not officially withdraw will be considered an unofficial withdrawal and a recalculation of federal aid eligibility will be done assuming completion of only 50% of the semester.

*Federal financial aid includes Federal Pell Grant, SEOG Grant, Perkins Loan, Direct Student Loan—subsidized and unsubsidized, and the Direct PLUS Loan.

**Withdrawal Date is defined as the date the student indicated their intent to withdraw or the midpoint of the semester for a student who leaves without notifying the College.

**TIME PAYMENT PLAN**
To set up monthly payments, SUNY Canton recommends the TuitionPay Plan from Sallie Mae. This plan allows you to pay the balance of your bill over a ten-month period for an academic year or five months for a semester. There is no interest just an enrollment fee of $35/semester or $55/full year plan. Please direct questions regarding TuitionPay to: (800) 635-0120 or sign up directly at www.tuitionpayenroll.com or use the links on our billing screens at the UC anWeb account.
SUNY Canton offers a comprehensive program of financial assistance to help students and their families meet the costs of a quality college education. Approximately 85 percent of degree students attending SUNY Canton receive some form of financial assistance.

The following information is provided as a general reference to financial aid at SUNY Canton and is based on statutes, regulations and policies current at the time this Academic Catalog was prepared for publication. These descriptions are, however, subject to change. Thus, it is recommended that candidates for admission and current students contact the Student Service Center, SUNY Canton, 34 Cornell Dr., Canton, New York 13617, telephone (315) 386-7616 or toll free at (800) 388-7123 or email at finaid@canton.edu.

STUDENT SERVICE CENTER

The Student Service Center at SUNY Canton exists to provide personal assistance to students and parents on a one-to-one basis from the time of initial inquiry until the completion of a student’s program of study. Every effort is made to insure that qualified and deserving students are not denied the benefits of a SUNY Canton education on the sole basis of financial need. Financial aid at SUNY Canton is awarded based on financial need and merit, without regard to sex, race, age, color, creed, national origin, disability or handicap.

STUDENT/PARENT RESPONSIBILITY

The federal financial aid system is based on the belief that it is first the family’s responsibility to contribute to the costs of the student’s college education, to the extent that the family is financially able. Determining what the family can contribute is accomplished by having the student complete the Free Application for Federal Student Aid (FAFSA) which assesses the family income and assets.

If the determination is made that the family resources are not sufficient to meet the total cost of education, SUNY Canton may help meet the student’s need through some combination of its own aid funds and those funds available from other public or private sources. If it is determined that the family’s resources are sufficient to meet the yearly college costs, or additional help is needed, the student, although ineligible for regular forms of aid, may qualify for some non-need-based assistance. Non-need-based aid and alternative methods of meeting college costs will be discussed later in this section.

INDEPENDENT/DEPENDENT STATUS DETERMINATION

The criteria that is used to determine whether a student is considered dependent or independent differs for federal and state aid. If a student meets the federal independency criteria, then federal aid eligibility is based on the student’s (and spouse’s, if married) prior tax year income. If a student does not meet the federal independency criteria, then his/her federal aid eligibility is based on the student’s and the parent’s prior tax year income. Other factors, such as assets, family size and number of family members in college figure into the federal aid eligibility.

SUNY Canton adheres very closely to the federally-established independency criteria. We do recognize, however, that there are special cases in which students may not meet the federal independency criteria but may have extenuating circumstances. These students should contact the Student Service Center.

Independency criteria for state aid is established in NYS law. The New York Higher Education Services Corporation (NYHESC) in Albany is the agency responsible for determining the student’s dependency status for state aid.

Students over the age of 35 are considered independent for state aid. For students under the age of 35, the state criteria considers whether the student lived/likes with the parent(s), whether the student has been claimed as a tax exemption by the parent(s), and whether or not the student has/will receive financial support from the parent(s) in recent years.

Questions regarding dependency status for federal and/or state aid should be directed to the Student Service Center. Students should be ready to document the information they provide on the aid application concerning their dependency status.

TYPES AND SOURCES OF AID

There are three major types of financial aid: 1) Grants and scholarships, also known as gift aid because this type of aid, in almost all cases, does not have to be repaid; 2) loans, which must be repaid but typically not until the student has left school or dropped below half-time status; and 3) part-time employment, through which the student earns a wage by working on-campus.

There are a four major sources of aid: 1) the federal government provides the largest source of funding; 2) the State, most states, including New York, sponsor state grant programs for their residents; and 3) the College itself may be a source of aid, or with scholarship or loan funds that the College has raised. 4) private sources—there are several scholarship and loan programs available to assist students. Refer to the financial aid page of www.canton.edu for more information.
Financial Assistance

Applying for Financial Aid

Students applying for financial aid at SUNY Canton should be aware of the following application process:

—Each student must complete the following, as soon after January 1 in the year in which they are seeking aid: 1) the Free Application for Federal Student Aid (FAFSA), and 2) the New York State TAP Grant application. Both applications may be completed online at www.fafsa.gov. For an electronic signature you and your parents should get a PIN at www.pin.ed.gov a few days prior to completing the FAFSA online.

—Out-of-state students should check with their state’s higher education agency to determine if they need to complete a separate application to be considered for a grant from their home state.

—Students should be ready to submit signed copies of their and their parents’ prior year income tax forms, if requested by the College’s Student Service Center. Aid eligibility is based on the prior tax year’s income. Therefore, if applying for aid for the 2012-13 year, a family may be asked for signed copies of the 2011 income tax forms.

—Students should research the availability of private scholarships. Visiting a high school guidance office, local library, or the Internet can provide free access to information concerning private scholarships.

—SUNY Canton funds a number of scholarships for freshmen and returning students. Freshmen who meet basic requirements will have application information sent to them. All admitted students with a scholarship application will be considered for scholarship funding and contacted by the Office of Admissions or Development Office if awarded a scholarship. Recipients are typically chosen in the summer prior to the academic year.

A listing of current College Foundation Scholarships is available at the end of this section. Questions concerning College Foundation Scholarships should be directed to the Development Office at (315) 386-7123 or Admissions at (315) 386-7127.

—Any outside financial aid awards that a student receives must be included in the award package. If aid adjustments are necessary, loans will be reduced before grand aid or work.

Deadlines

Application deadlines vary from program to program. Since funding from the federal government is limited for the campus-based aid programs (Federal Perkins Loan, Federal Work-Study, and Federal SEOG), these funds are awarded on a first-come, first-served basis, until funds are exhausted. To be considered for these funds, students should submit a FAFSA online at www.fafsa.gov by March 15. It will take one to three weeks for the processing agency to process the student’s application and forward it to the Student Service Center. We strongly encourage all students to complete and submit their FAFSA before March 15 of each award year.

Basic Eligibility Requirements

All students applying for federal financial aid must meet the following basic requirements:

1. You must be a U.S. citizen or eligible non-citizen (have an alien registration number).
2. You must have a high school diploma or its equivalent (ex., GED). Homeschooled students must have officially completed their program.
3. You must be enrolled as a regular student in an eligible degree program.
4. You must not be in default of any previous student loans.
5. You must maintain satisfactory academic progress in your degree program.
6. All male students must register with Selective Service or be exempt from doing so.
7. You must not have been convicted of possession or sale of illegal drugs for an offense that occurred while you were receiving federal financial aid. More information regarding this requirement is available at the Financial Aid page of www.canton.edu.

Notification of Eligibility

Applications are reviewed by a financial aid advisor. In some cases, the Student Service Center will request additional information from the student and family (for example, we may request copies of income tax returns or other income verification). The student should respond immediately to any requests for information that he/she receives. Once the Student Service Center has received all necessary forms and documents from the student, the student’s file is considered complete and ready for notification of aid eligibility.

Students are notified of their financial aid package availability by email and letter. Awards may be accepted or declined online on their student UCanWeb account. Please read instructions and Terms & Conditions carefully.

The Student Service Center begins notifying students of aid eligibility in early March. The process continues as applications are received.

Special Circumstances

If you feel that you have a special circumstance that needs to be taken into consideration for financial aid eligibility, we may be able to recalculate your eligibility within federal guidelines. You may download and complete a Special Conditions Form at...
Financial Assistance

www.canton.edu. Click on Financial Aid, then on Forms and Worksheets. If your special circumstance involves your dependency status for the FAFSA, you may also find the Request for Independence Consideration in the same area.

Available Federal Programs

Students are automatically applying for these aid programs when they complete the Free Application for Federal Student Aid (FAFSA).

Federal Pell Grants

The Pell Grant Program is an entitlement program. It is also a grant program, i.e., no repayment is required. Eligibility and award amount are based on need and determined by the U.S. Department of Education. The Pell Grant may be used for tuition, fees, books, and living expenses. All Pell recipients have a lifetime eligibility limit of 12 full-time semesters. As of 7/1/09 any student who whose parent/legal guardian died in Iraq or Afghanistan will be entitled to the full Pell award.

Currently, awards for eligible students can be as much as $5550.00. The amount of the award will be affected by costs of attendance and full or part-time enrollment status. The Pell Grant does not duplicate the State awards.

Pell recipients must continue to make satisfactory academic progress in the program in which they are enrolled. Students who possess a bachelor’s degree are ineligible for a Pell Grant.

Students must file the FAFSA to determine Pell Grant eligibility.

Federal Supplemental Educational Opportunity Grants (FSEOG)

The applicant must have financial need and be eligible for a Pell Grant. FSEOG, like PELL, is a grant program, i.e., no repayment is required. Students who possess a bachelor’s degree are ineligible for FSEOG.

Currently, typical annual FSEOG awards range from $200 to $1,500 depending on funding. Recipients must continue to make satisfactory academic progress in the program in which they are enrolled.

Federal Perkins Student Loan

Loans are offered to high-need students who are enrolled on at least a half-time basis. This is a limited fund which is awarded on a first-come, first-served basis.

The maximum amount which can be borrowed on an annual level is currently at $2,000 for most SUNY Canton students. An undergraduate student cannot borrow more than $9,000 total. Loans are repaid beginning nine months from the time the student ceases to be enrolled at least on a half-time basis. Students borrow at a 5% fixed interest rate and have up to ten years to repay. Payment may be deferred for up to three years or forgiven for certain categories of borrowers. Certain jobs in law enforcement and education may qualify borrowers for partial or full cancellation of the loan debt.

All Perkins Loan recipients are required to complete an electronic promissory note before the loan can be disbursed. An exit interview is required before leaving the College so that their rights and responsibilities concerning their loan may be explained to them. Specific information may be obtained from the Student Service Center.

Federal Work-Study Program

Through the FWS Program, the College makes employment reasonably available to eligible students who have demonstrated that they are in need of financial assistance. In the event that more students are eligible for FWS than there are funds available, preference is given to students on a first-come, first-served basis. At least 7% of funds must be used for community service jobs both on and off campus.

The starting salary is usually set at minimum wage. Currently, a typical annual award is worth $1,500 which means that the student would work approximately seven hours per week to earn his/her full award.

FWS recipients must continue to make satisfactory academic progress in the program in which they are enrolled.

Federal Direct Stafford Student Loan (Subsidized)

This is a program that allows students to borrow funds from the federal government. The first step in applying for a Stafford Loan is to complete the Free Application for Federal Student Aid (FAFSA) since students applying for a Stafford Loan need proof that they have first applied for the federal Pell Grant. The College will notify the student of his/her eligibility for a Stafford Loan on the award notice. (Please note that not all students are eligible for a Subsidized Stafford Loan; the College’s Student Service Center determines loan eligibility.)

To be eligible, a student must be a U.S. citizen or eligible non-citizen and be enrolled or admitted on at least a half-time basis. Once again, the student must demonstrate need for the loan as evidenced on a processed FAFSA.

A SUNY Canton student may be eligible to borrow no more than $3,500 as a freshman and no more than $4,500 at the sophomore level. Once full junior status is achieved in a bachelor’s program you may borrow up to $5,500/year. The interest rate is currently fixed at 3.4% as of 7/1/11. Principal and interest are deferred during the time that the student is enrolled on at least a half-time basis. Borrowers have up to ten years to repay and repayment begins six months after the student ceases to be enrolled on at least a half-time basis. Payment of the principal may be deferred for up to three years for certain categories of Public Health Service officers, the temporarily disabled, those in internships required before entering a profession, and Peace Corps or Vista volunteers.
Based Loans Programs

Federal Non-Need Based Loan Programs

Federal Direct Stafford Student Loan (Unsubsidized)

Most terms and conditions of the unsubsidized loan are the same as for the subsidized loan except that interest is fixed 6.8% and accrues while the student is in school. Loan limits for dependent students cover the cost of attendance minus any aid received, up to the limits of the subsidized Stafford Loan (that is, a dependent freshman cannot borrow more than $3,500 in a combination of subsidized and unsubsidized, while a dependent sophomore cannot borrow more than $4,500, and a dependent junior/senior cannot borrow $5,500). An independent freshman cannot borrow more than $7,500 between the subsidized and unsubsidized Stafford Loans. An independent sophomore cannot borrow more than $8,500 between the subsidized and unsubsidized Stafford Loans. Independent juniors and seniors in the BT program can borrow up to $10,500 between subsidized and unsubsidized loans. As of 7/1/08, all students are eligible for an additional $2,000 in unsubsidized Stafford Loan. The total of the student’s unsubsidized loan, and the other aid/resources that the student will be receiving, can never exceed the total cost of attendance. Accrued interest may be paid or added to the loan (capitalized) as agreed by the borrower and the federal government. The first step in being considered for an unsubsidized loan is to complete the Free Application for Federal Student Aid (FAFSA).

Federal Direct Parent Loan for Undergraduate Students (DPLUS)

This is a program that allows parents to borrow funds from the federal government. Under DPLUS, the parent is the borrower and if eligible, (these loans are subject to a credit check) may borrow up to the difference between the yearly cost of attendance and the student’s other yearly financial aid.

Interest on the principal is fixed at 7.9% beginning July 1, 2006. Repayment of a DPLUS Loan begins 60 days following receipt of the loan’s second disbursement. Parents may request a deferment of payments until the student is out of school.

It is also important to note that the parent and student must be U.S. citizens or eligible non-citizens, and neither can be in default on a prior student loan or owe a refund on a federal grant in order to be considered for a DPLUS loan. In addition, the student must be: 1) accepted or enrolled in an eligible program leading to a degree or certificate; 2) be enrolled on at least a half-time basis; 3) maintain satisfactory academic progress if currently enrolled; and 4) show compliance with applicable Selective Service requirements. The promissory note for the DPLUS can also be done online through the financial aid page of our website.

Federal Aid to Native Americans (BIA Grant)

To be eligible for consideration a student must: 1) possess one-fourth or more Indian blood and be certified by their Tribe, 2) be a member of a Tribe, 3) be enrolled (or accepted for enrollment) on a full-time basis in a program which will lead to a four-year degree, and 4) have a definite financial need after all other sources of financial assistance have been applied.

Application forms may be obtained from a liaison office of the U.S. Bureau of Indian Affairs. The application deadline is July 15 for the Fall Semester/academic year and October 15 for students beginning their studies in the Spring Semester. Please note that students should first complete the Free Application for Federal Student Aid (FAFSA). Students must reapply for federal Native American aid each year and must meet certain academic standards to continue to receive the grant.

Available State Programs

Tuition Assistance Program Grant (TAP Grant)

To apply, follow the procedure detailed in “Applying for Financial Aid.”

The TAP Program is an entitlement program, and no repayment is required as it is a grant. To be eligible for consideration, the student must be: 1) a New York State resident (as defined by the New York Higher Education Services Corporation’s residency policy) and a U.S. citizen or eligible non-citizen, 2) be enrolled on a full-time basis (at least 12 credit hours per semester). 3) certain students may be eligible if enrolled part-time. Eligibility for TAP is based on the family’s prior year New York State taxable income figure and also considers how many family members, other than the applicant, will be enrolled in college on a full-time basis.
TAP awards at SUNY Canton for the 2011-12 year ranged from $500 to $5,000 per year, for students who qualified. Students can receive a TAP award for no more than six full-time semesters of undergraduate study at the associate degree level or eight semesters at the bachelor’s degree level. EOP students may have additional eligibility. Recipients must be in good academic standing in the program in which they are enrolled.

SUNY TUITION CREDIT

If a student’s semester tuition is at least $2785 and they have a TAP award they will also receive a SUNY Tuition Credit worth up to $297.50 per semester depending on the TAP award.

OTHER AWARDS/SCHOLARSHIPS SPONSORED BY NEW YORK HIGHER EDUCATION SERVICES

The New York Higher Education Services Corporation sponsors the following awards for special populations:
—Veteran Tuition Awards (VET)
—Child of Veteran Awards (CV)
—Child of Deceased Police Officer/ Firefighter/Correction Officer Awards
—Memorial Scholarships for Children of Deceased Police Officers and Firefighters

In addition to completing the FAFSA, students who wish to be considered for any of the above awards must also complete the New York State TAP Grant Application. Typically, if a TAP award is received in addition to any of the above awards, the combined award can be no greater than the cost of tuition. Recipients must be in good academic standing in the program in which they are enrolled.

For more specific information concerning the above state awards, contact the Student Service Center or the New York Higher Education Services Corporation, 99 Washington Avenue, Albany, NY 12255.

NEW YORK STATE AID TO NATIVE AMERICANS

Application forms may be obtained from the Native American Education Unit, New York State Education Department, Albany, NY 12230. The completed application should be forwarded to the Native American Education Unit, along with the supporting documentation required. This is an entitlement program, with neither a qualifying examination nor a limited number of awards, and repayment is not required. There are application deadline dates.

The award is $1,000 per year for a maximum of four years of full-time undergraduate study (five years where a fifth year is required for completion of degree requirements). Awards are not provided for study in remedial programs.

Students are responsible for notifying the Native American Education Unit in writing of any change in student status. Students must also submit semester grades, at the end of each semester, showing satisfactory progress toward completion of degree requirements.

EDUCATIONAL OPPORTUNITY PROGRAM (EOP)

This program operates in the State University of New York and is designed to provide access to post-secondary education to educationally and economically-disadvantaged students. It is a comprehensive program in which financial assistance is one possible component along with special counseling, tutoring, and remedial course work.

Application is automatic via the SUNY Application for Admission. An applicant must be:

—A New York State resident;
—Academically disadvantaged according to definitions promulgated by SUNY;
—Economically disadvantaged according to guidelines approved by the Board of Regents and the Director of the Budget. Students who apply for the EOP Program will be required to provide documentation of total family income to ensure that they meet prescribed income guidelines.

The amount of financial assistance and other support provided to EOP students is dependent on need as determined by SUNY Canton, using NYS regulations and budget approval.

EMPIRE STATE DIVERSITY HONORS SCHOLARSHIP PROGRAM

The SUNY Canton/Empire State Diversity Honors Scholarship program provides assistance to students who have demonstrated high academic achievement and have overcome a disadvantage or other impediment to succeed in higher education. Individuals selected to receive these scholarships must:

—Be residents of New York State;
—Have been accepted for enrollment or be enrolled in a degree program.

Selection from each year’s eligible applicants is made by the College Scholarship Committee in accordance with the following criteria:

—Financial need;
—If accepted for admission to the College, the prospective eligible student must have earned at least an 80% average for the first three and one-half years of high school;
—If enrolled at the College, each recipient must have at least a 2.75 cumulative grade point average;
—While it is the intent that the recipient will continue to receive such support while enrolled, support will be withdrawn if the students cumulative grade point average is lower than 2.50.

Further information concerning this program is available from the Student Service Center or the Development Office.
AID FOR PART-TIME STUDY (APTS)

This program provides tuition assistance for part-time undergraduates enrolled in degree or certificate programs in New York State. To be eligible for consideration, a student must: 1) be registered for at least 3 but less than 12 semester hours; 2) be working toward an undergraduate degree or be enrolled in a registered certificate or approved degree program; 3) be in good academic standing; 4) be a New York State resident and a U.S. citizen or eligible non-citizen; 5) have tuition charges of at least $100 per year.

Eligibility is based on the family's prior year New York Taxable Income figure. Dependency status for the APTS program considers whether the student was eligible to be claimed as a tax exemption by his/her parents in the prior tax year.

The amount of APTS awards range from $75 to $400 or more per semester depending on the College's yearly allocation from the State. An award amount cannot exceed the tuition charges.

Specific questions concerning the APTS award may be directed to the Student Service Center. Funding for this program is very limited so students are encouraged to apply early. Application can be found in the Part-Time Students link on the Financial Aid page of www.canton.edu.

CANTON COLLEGE FOUNDATION SCHOLARSHIPS AT SUNY CANTON

Most of the financial assistance available at SUNY Canton is awarded on the basis of an individual student's financial need as determined by universally applied formulas. However, there is an increasing number of awards through the Canton College Foundation which recognize special characteristics and accomplishments of our students and incoming freshmen. Some, once awarded, are renewable if the student's special characteristics and academic performance merit, as specified in the endowment.

Available scholarships and their award criteria are listed herein.

Alumni Association Scholarship
—Returning senior student
—Minimum 3.0 GPA
—Service to college community
—Financial need

Alumni Legacy Scholarship
—Entering freshman student
—Child or grandchild of alumnus
—Academic potential, as demonstrated by high school performance
—Financial need

Anderson-André Endowed Scholarship
—Entering freshman student
—Liberal Arts and Sciences: Chemistry option or Veterinary Science Technology curriculum
—St. Lawrence, Jefferson, or Lewis County resident
—Preference to graduates of Beaver River or Canton Central School

Timothy M. and Mary Lou Ashley Family Endowed Scholarship
—Students in one of the following areas: Criminal Justice, Business Administration, or Liberal Arts
—To provide assistance to worthy individuals who appreciate the value of a quality education

Alice Westaway Bagley Endowed Scholarship
—Nursing and allied health
—St. Lawrence County resident

Anderson-André Legacy Scholarship
—Nursing and Allied Health
—St. Lawrence County resident

Rachael M. and Leon E. Bagley Endowed Scholarship
—Freshman to be retained
—Preference to, but not restricted to, students from Madrid-Waddington or Edwards-Knox Central Schools

Baldwinsville High School Class of 1957 Scholarship
—Entering freshman from C.W. Baker High School, Baldwinsville, New York
—Air Conditioning Engineering Technology curriculum
—Other curriculums, if only one eligible Air Conditioning Engineering Technology student enrolls
—Students may retain scholarship

Dr. Adelord S. and Sylvia H. Blanchard Endowed Scholarship
—Returning senior student
—Business Administration curriculum
—Preference to candidates intending to pursue a baccalaureate degree in business
Financial Assistance

Leland Blevins Family Endowed Scholarship
—Entering freshman student
—Automotive Technology curriculum
—Demonstrates potential for success

Bridge to Success Endowed Scholarship
—Established by R. Peter Heffering ’51
—Assist students who have exhausted all their options for scholarships, loans, and other funds
—No curriculum restrictions

Goldie Burgess Endowed Scholarship
—Returning senior student
—Nursing curriculum
—Minimum 2.75 GPA
—Financial need

Bobbi Butler Burnham Endowed Scholarship
—Liberal Arts associate or bachelor degree program
—Preference will be given to anyone with a surname of Sharlow, Butler, or Burnham but not limited to those aforementioned names
—The scholarship is renewable for the following year of study providing that the student has maintained a 3.0 grade point average
—This scholarship should never be used as an athletic scholarship per the request of the donor nor should it be given to a student currently receiving an athletic scholarship

Agnes & John N. Burns Family Endowed Scholarship
—Entering freshman student
—Business and one is open curriculum
—Preference to students from Franklin, Jefferson, Lewis, or St. Lawrence County

Paul W. Calkins Endowed Scholarship
—Entering freshman student
—High school record exemplary
—Business curriculum
—Financial need

Canton Area Zonta Club Scholarship
—Returning senior student
—Resident of Town of Canton or, secondly, St. Lawrence County
—Single parent with potential for success
—Financial need

Canton College Foundation Merit Scholarship
—Returning senior student
—Non-traditional
—Engineering Science with a 3.0 GPA

Preston C. Carlisle Annual Scholarship
—Student from St. Lawrence County

The Centennial Endowed Scholarship
—No restrictions on year or curriculum
—Financial need may be considered

Alden C. Chadwick Endowed Scholarship
—Returning senior student
—“Scholar athlete” with demonstrated academic excellence, while an active participant in an intercollegiate athletic program

Varick A. Chittenden Book Scholarship
—Second-year student
—Exceptional North Country student

Clark-Guyette Internship Assistance Program Endowment
—Students participating in non-subsidized internship
—Preference given to students from Franklin, Jefferson, Lewis, or St. Lawrence County
—Financial need

Stanley Cohen Endowed Scholarship
—Academic achievement
—Financial need
—U.S. citizen

College Association Endowed Assistantships
—Work awards given by the Financial Aid Office to students who have financial need and cannot get aid from other sources

College Association Management Team Scholarship
—Annual scholarship supporting a student from the College Association Management Team

Dr. Solomon Cook Endowed Scholarship
—Native American
—Either freshman or senior
—Preference to student from the Akwesasne St. Regis Mohawk Reservation or graduate of Salmon River Central School
—High school average of B or better
—Financial need

William C. Cooper Endowed Scholarship
—Entering freshman student
—Business or Computer Information Systems curriculum
—Resident of St. Lawrence or Otsego County
—Highly-motivated, industrious student
—Active in extracurricular activities
—Financial need

Corning Foundation Endowed Scholarship
—Entering freshman student
—Electrical Engineering Technology curriculum
—Graduate of a St. Lawrence Co. high school
—Preference to women and minorities

Gregory W. Coughlin Annual Scholarship
—Allied Health curriculum
—Freshman or senior student
—Acceptance by the Allied Health department
—Financial need

Rosa Dixon Allied Health Endowed Scholarship
—Veterinary Science Technology or Liberal Arts and Sciences: Chemistry option curricula
—Freshman or senior student
—Preference to women and minorities
—Financial need

The Criminal Justice Endowed Alumni Award
—Must be a Criminal Justice student with financial need
—Determined by Criminal Justice department chair

Cross Connection Controls Scholarship
—Entering freshman student
—Air Conditioning Engineering Technology curriculum
—May retain for second year

Evan M. Dana Endowed Scholarship
—Physical Therapist Assistant major
—Preference given to students from Franklin, Jefferson, Lewis, or St. Lawrence County
—Preference given to Massena Central School or Madrid-Waddington Central School District students
—Acceptance by the College Association Management Team
—Academic achievement secondary

Ethelyn B. Davis Endowed Scholarship
—Veterinary Science Technology or Liberal Arts and Sciences: Veterinary Medicine option curricula
—Nursing curriculum
—Financial need
—Incentive, motivation

William C. Cooper Endowed Scholarship
—Entering freshman student
—Business or Computer Information Systems curriculum
—Resident of St. Lawrence or Otsego County
—Highly-motivated, industrious student
—Active in extracurricular activities
—Financial need

Rosa Dixon Allied Health Endowed Scholarship
—Veterinary Science Technology or Liberal Arts and Sciences: Chemistry option curricula
—Freshman or senior student
—Financial need
Stuart B. Dragon Endowed Scholarship
—Entering freshman student
—Agriculture or Business curriculum
—First preference to Clinton County resident
—Secondly, any North Country resident

The Eurto Family Endowed Scholarship
—Non-traditional (over 21 years of age) student majoring in a certificate, associate, or bachelor degree program

The Betty Evans Endowed Scholarship in Memory of Perry Evans '75
—Entering or continuing student from an agricultural background who is enrolled in either a two- or four-year program
—Preference will be given to students who have had experience in 4H or a member of FFA

George and Eileen Fay Endowed Scholarship
—Entering freshman student
—Graduate of Massena or Canton Central School
—High school record of good citizenship and academic achievement
—Preference to Business curriculum

Linda Lahey Fay Nursing Award
—Graduating senior student
—Assisted fellow students/faculty members
—Awarded at Nursing Program Pinning Ceremony

Kevin Fear '87 Endowed Scholarship
—Assist a student who has a learning disability who is attending SUNY Canton
—Any curriculum

Clement J. Flanagan Endowed Scholarship
—Entering freshman student
—Graduate of Canton Central High School
—Good academic standing
—Involvement in high school/community activities
—Financial need

Robert W. and Helen Flanders Farmer Endowed Scholarship
—Entering freshman student
—Graduate of Tupper Lake High School
—High school record of good citizenship and academic achievement
—Strong motivation to succeed in college
—Financial need

Nicole Fleury Memorial Endowed Scholarship
—Veterinary Science Technology major
—Graduate from a Section X high school
—Must demonstrate sportsmanship, leadership, compassion, and a love for animals and athletics

David A. Frary and Family Endowed Scholarship
—Returning senior student
—Graduate of a St. Lawrence County high school
—Business curriculum
—Financial need
—Preference to candidates intending to pursue a baccalaureate degree

Albert E. French Endowed Scholarship
—Returning senior student
—Service to college community
—Financial need

Gerlach Family Endowed Scholarship
—Nursing student

Lawrence Germain Endowed Scholarship
—Veterinary Science Technology curriculum
—Financial need

Gilbert, Chadwick, and Christy Investment Club Scholarship
—Business curriculum

John A. Goetz Endowed Scholarship
—Returning senior student
—Construction Engineering Technology or Engineering Science

Cleo J. Golding Endowed Scholarship
—Entering freshman student
—Meritorious academic record
—Financial need

Gooleden Family Endowed Scholarship
—Entering freshman student
—St. Lawrence, Jefferson, or Franklin County resident
—Preference to candidates from Madrid or Watertown
—Leadership potential and ethical values

Dr. Jonathan Gueverra Endowed Scholarship
—Awarded to student in Business or Criminal Justice curriculum
—Either two- or four-year degree students

Harriett Gushea/Massena Memorial Hospital Nursing Endowed Scholarship
—Nursing student
—Preference to candidates from Madrid or Watertown
—Leadership and service in the community
—Will promote the importance of individual character and ethical behavior
—Demonstrates Nursing professionalism

Dr. Harold K. Hughes Endowed Award for Ethical Behavior
—Criminal Justice student
—Will promote the importance of individual character and ethical behavior
—Leadership and service in the community
—To be awarded by Criminal Justice faculty prior to commencement

Paula Bouchard Jacques Endowed Scholarship
—Continuing student
—Must have earned “B” or better in Nursing 101
—Assisted fellow students in learning
—Demonstrated strong assessment skills, effective communication skills, and respect and caring for elderly client
—Awarded to continuing student who is enrolled in a four-year degree program
—Financial need may be considered

Heuvelton Central School Alumni Endowed Scholarship
—Entering freshman student
—Graduate of Heuvelton Central School
—Earned at least a “B” average through first 3-1/2 years of high school
—Good relationship with teachers and peers
—No history of drug or alcohol abuse
—Financial need

John L. Halford, Sr. Endowed Scholarship
—Entering freshman student, to be retained with 2.5 GPA
—Good academic standing
—Financial need
Charles W. Johnson Endowed Scholarship
—Entering freshman student
—High school academic record meritorious
—Preference accorded to Liberal Arts: General Studies/Undeclared Major who indicates an interest in majoring in the media
—Financial need

Betsy B. Kaplan Memorial Endowed Scholarship
—Continuing students in Veterinary Science Technology curriculum
—Must maintain 3.0 GPA cumulative
—To go to students who have demonstrated past involvement in animal welfare, work at a humane society or similar organization, or caring for abused animals in one's own home.

Jesse Kaufman Endowed Scholarship
—Entering freshman student
—Electrical Engineering Technology curriculum

Catherine M. Kelly Endowed Award for Excellence in Psychiatric Nursing
—Presented annually by the Nursing faculty to a graduating senior Nursing student who has a B or better average
—Demonstrates clinical excellence
—Strong interpersonal relationship skills
—A commitment to nursing of psychiatric clients

E.B. and Gladys Kennedy Endowed Scholarship
—Entering freshman student
—Commitment to community service
—Financial need

Key Bank Annual Scholarship
—Business curriculum
—St. Lawrence County resident

Harry E. King Endowed Scholarship
—Air Conditioning Engineering Technology curriculum
—85 high school average

Richard C. King Endowed Scholarship
—Returning senior student
—Veterinary Science Technology curriculum
—Good academic standing
—Financial need secondary

Lloyd and Josephine Kingston Endowed Scholarship
—Entering freshman student
—Business curriculum
—St. Lawrence County resident
—Preference to graduate of Canton Central School

Walter R. Kingston Scholarship
—Entering freshman student

—Automotive Technology curriculum
—Preference given to Canton or St. Lawrence County students

Ernest C. Krag Endowed Scholarship
—Entering freshman student
—Liberal Arts-Social Science curriculum
—First preference to a student planning to pursue studies in government and history; second preference to a student from St. Lawrence or Franklin County; third preference to a Native American student

Edwin Kreneski Memorial Scholarship
—Second-year student
—Electrical Engineering Technology curriculum
—Financial need

Aaron J. Lasher Endowed Scholarship
—Awarded annually to a deserving student
—One-year Heating & Plumbing certificate, returning student in Air Conditioning Engineering Technology two-year program, or the Facilities Operation four-year program
—Preference to Heuvelton Central School graduate, secondly to a St. Lawrence or Jefferson County graduate

Garnett M. Lawrence Endowed Scholarship
—Entering freshman student
—Massena Central High School graduate
—B average
—Good relationships with teachers and peers
—No history of alcohol or drug abuse
—Financial need

Gordon and Beatrice Lawrence Endowed Scholarship
—Entering freshman student
—St. Lawrence Central School graduate
—B average through first three and one-half years
—Have good relationship with teachers and peers
—Have no history of alcohol or drug abuse
—Financial need secondary

The Leadership Institute Endowed Scholarship
—Entering freshman student
—Graduate of a St. Lawrence County high school
—85 high school average
—Demonstrate leadership potential by participating in student organizations (Operation Enterprise, High School of Excellence Program, Critical Issues Conference, Boys State or Girls State)
—Accounting/Facilities Management curriculum

Frederick C. and Karen Liebi Endowed Scholarship
—May be awarded to first-year or second-year student

—Awarded to Construction majors first, then to Canino School of Engineering Technology curriculums

C. Ernest and Dorothy B. Lowery Endowed Scholarship
—Returning senior student
—Demonstrate academic excellence
—Financial need

Albert F. and Agnes Powers Luck Endowed Scholarship
—Entering freshman student
—Preference accorded to students from Seton Catholic Central or Plattsburgh High School; second preference to a resident of Clinton, Essex, or Franklin County
—Civil or Construction Engineering Technology curriculum
—Academic potential

Dr. Earl W. MacArthur Honors Scholarship
—Entering freshman
—Must meet two of the following categories: Top five percent of high school class; 93 or better high school average; combined SAT of 1250 or ACT of 28 or better
—Must maintain 3.25 GPA to retain scholarship

Joyce A. MacArthur/CTC Women Endowed Scholarship
—Returning senior student
—Outstanding scholar
—Demonstrates exemplary college or community service

The Dale and Sharon Versace Major Scholarship
—Financial need

Dr. Michael and Barbara Maresca Family Endowed Scholarship
—Awarded to both an entering freshman and continuing senior in the nursing program
—Preference given to students demonstrating leadership skills and community service
—Preference given to students from Canton-Potsdam Hospital and Massena Memorial Hospital areas

David R. Maynard Endowed Scholarship
—Entering freshman student
—Academic and extracurricular high school activity meritorious
—Financial need

Fulton and Anna McAllister Endowed Scholarship
—Returning senior student
—Nursing curriculum
—St. Lawrence County resident
Virginia McAllister Endowed Award for Excellence in Nursing
—Graduating senior student
—Nursing curriculum
—Evidence of leadership qualities, service to community, athletic involvement, and participation in a variety of extracurricular activities will be viewed upon favorably in the selection process
—Financial need

Robert McKenty and Family Scholarship
—Awarded annually to two students
—Construction-related program
—Financial need

Merriman Family Endowed Scholarship
—Entering freshman student
—High school record, academics, and extracurricular activities, with merit
—Graduate of Colton-Pierrepont Central School, Norwood-Norfolk Central School, or Potsdam Central School
—Financial need

Susanne Connick Merritt Endowed Scholarship
—Returning senior student
—Electrical Engineering Technology or Nursing curriculum
—Must have at least a 3.75 cumulative GPA
—Must show leadership qualities and have participated in college and community activities
—Financial need

Allan P. & Catherine Barnett Newell Endowed Scholarship
—Second-year student
—North Country student from Clinton, Essex, Franklin, Jefferson, Lewis, or St. Lawrence Counties
—First preference to, but not restricted to, Veterinary Science Technology majors
—Evidence of leadership qualities, service to community, athletic involvement, and participation in a variety of extracurricular activities will be viewed upon favorably in the selection process
—The recipient must maintain a 3.0 GPA to retain the scholarship for a consecutive semester of study
—Financial need is to be considered

New York State Federation of Home Bureaus, Inc., in Honor of Audrey J. Hall Scholarship
—Continuing full-time student
—Early Childhood or Nursing curriculum
—2.85 or better GPA
—Resident of counties where there are organized chapters of New York State Federation of Home Bureaus, Inc.

E. J. Noble Guild of Canton-Potsdam Hospital Annual Nursing Scholarship
—Second-year Nursing student
—St. Lawrence County resident
—Preference to non-traditional student

Elwood J. Nicholson, Jr. Endowed Scholarship
—Entering freshman student
—Recipient shall be Engineering Technology and Science and performance in and out of classroom exemplary
—Preference to Air Conditioning Engineering Technology/Heating and Plumbing Service
—Financial need

Elaine Claxton Pidgeon Endowed Scholarship
—Must have at least a 3.75 cumulative GPA
—Must show leadership qualities and have participated in college and community activities
—Financial need

Perry Family Scholarship
—Awarded to a St. Lawrence County resident
—Preference given to students from an agricultural background

Dr. William F. Peters Tech Prep Endowed Scholarship
—Entering freshman student
—BOCES graduate
—Preference to Tech Prep participants

Phi Theta Kappa Endowed Scholarship
—Returning senior student
—Must show leadership qualities and have participated in college and community activities
—Must have at least a 3.75 cumulative GPA

Elaine Claxton Pidgeon Endowed Scholarship
—Returning senior student
—Nursing curriculum
—Demonstrates academic excellence
—Financial need

Piping, Heating, and Piping Contractors of Northern New York Endowed Scholarship
—Entering freshman student
—One-year Heating & Plumbing curriculum
—Resident of Jefferson, Lewis, or St. Lawrence County
—Good academic standing
—Financial need

Harry & Ella Winslow Podgurski Endowed Scholarship
—Entering freshman student
—Canino School of Engineering Technology
—Massena Central School graduate
—Has been a positive member of the high school community
—Financial need

Jean M. Poticher Endowed Scholarship
—Entering freshman student
—Resident of St. Lawrence County
—Good citizenship
—Enrolled in a Business curriculum
—Financial need

Robert A. Noble, Sr. Endowed Scholarship
—Returning senior student
—Electrical Engineering Technology or Nursing curriculum
—Vermont or North Country resident

John P. Ouderkirk Endowed Scholarship
—Returning senior student
—Canino School of Engineering Technology
—Academic performance during freshman year at SUNY Canton meritorious
—Preference accorded to students who have grown through scouting
—Financial need

Lorenz F. Pries Endowed Scholarship
—Entering freshman student
—Electrical Engineering Technology curriculum
—Good academic potential
—Participation in extracurricular activities
—Financial need
Financial Assistance

Bernard Creighton Regan Endowed Scholarship
—Returning senior student
—Massena Central School graduate preferred; if not one available, then St. Lawrence County
—Electrical or Air Conditioning Engineering Technology
—Financial need

Gerald E. Rice Endowed Scholarship
—Entering freshman student
—Canino School of Engineering Technology
—Preference to non-traditional student

W. Stanley and Alice E. Richardson Endowed Scholarship
—Returning senior student
—Enrolled in a Business curriculum
—Student from St. Lawrence County
—Meritorious academic record and motivation to succeed in business

John F. Ruitberg Endowed Scholarship
—Entering freshman
—Student from St. Lawrence County
—Business or Liberal Arts-Social Science curriculum

The Saguaro Endowed Scholarship
—Financial need

William & Beatrice Schermerhorn Endowed Scholarship
—Returning senior student
—Veterinary Science Technology curriculum
—Demonstrates a humane ethic and a personal commitment to animals

Gleneva Smith Gospel Choir Award
—Awarded to a member of the SUNY Canton Anointed Voices Gospel Choir

The Margaret D. Sovie Endowed Scholarship
—Second-year Nursing student who has demonstrated a compassionate outlook and eagerness to become a registered nurse
—Chosen by the consensus of the Nursing faculty

St. Lawrence County Dental Society Annual Scholarship
—Dental Hygiene curriculum

St. Lawrence Gas Scholarship
—Business or Canino School of Engineering Technology curriculum
—North Country resident
—Financial need

St. Lawrence State Hospital School of Nursing Alumni Association Endowed Scholarship
—Returning senior student
—Nursing curriculum
—Empathy, leadership, patient advocacy
—North Country resident

Bill and Peg Stalder Endowed Scholarship
—Entering freshman student
—Good academic potential
—St. Lawrence County resident
—Financial need

Jay F. Stone Endowed Scholarship
—Entering freshman student
—Air Conditioning Engineering Technology
—Financial need may be considered

The Margaret D. Sovie Endowed Scholarship
—Senior student
—Preference to part-time student
—Demonstrated financial need

David W. Sullivan Memorial Endowed Scholarship
—Entering freshman student
—Criminal Justice curriculum
—Graduate of a St. Lawrence County high school
—School or community service involvement

SUNY Canton/Empire State Diversity Honors Scholarship
—Entering freshman student
—High school average B or better
—Native American, African American, or Hispanic
—Recipients maintaining a 2.75 GPA may retain the scholarship for a second year of study
—Financial need

Thompson-Weatherup Family Charitable Foundation Scholarship
—Non-traditional Nursing student
—Entering in the spring semester
—Must have at least one year prior nursing experience
—Resident of St. Lawrence County
—Desires employment after graduation in the North Country
—Financial need may be a consideration

Bill and Peg Stalder Endowed Scholarship
—Entering freshman student
—Good academic potential
—St. Lawrence County resident
—Financial need

T. J. Toyota and Cloce Family Endowed Scholarship
—Automotive Technology curriculum
—Performance must demonstrate potential for success
—Financial need may be a consideration

Carl W. Trainor Family Scholarship Endowment
—Continuing student in the Mortuary Science or Health Science curriculums
—First preference to a resident of Boonville or Lewis County
—Second preference to a North Country resident

The James M. and Charlene Tyler Endowed Scholarship
—Continuing student who had challenges in high school but has excelled academically during first year
—This is a merit award recognizing the change in the student’s performance and accomplishment at SUNY Canton
—Should the student’s performance continue to excel, this scholarship is renewable if the student wishes to earn a bachelor’s degree

Grace Jones-Vesper Business Scholarship
—Second-year student
—Business Administration curriculum
—Must have maintained a B average
—Preference to a non-traditional student
—Financial need also considered

William C. Vining and Dr. Judson R. Vining Endowed Scholarship
—Entering student in Nursing program

Arlington Walker Endowed Scholarship
—Returning senior student
—Criminal Justice curriculum
—Resident of St. Lawrence County

John H. Wells Memorial Endowed Scholarship
—Entering freshman student
—Air Conditioning Engineering Tech. curriculum
—Second preference to Heating & Plumbing curriculum

Arthur S. Wheater Endowed Scholarship
—Continuing student who had challenges in high school but has excelled academically during first year
—Should the student’s performance continue to excel, this scholarship is renewable if the student wishes to earn a bachelor’s degree

The Margaret D. Sovie Endowed Scholarship
—Second-year student
—Business Administration curriculum
—Must have maintained a B average
—Preference to a non-traditional student
—Financial need also considered

William C. Vining and Dr. Judson R. Vining Endowed Scholarship
—Entering student in Nursing program

Arlington Walker Endowed Scholarship
—Returning senior student
—Criminal Justice curriculum
—Resident of St. Lawrence County

John H. Wells Memorial Endowed Scholarship
—Entering freshman student
—Air Conditioning Engineering Tech. curriculum
—Second preference to Heating & Plumbing curriculum

Arthur S. Wheater Endowed Scholarship
—Continuing student who had challenges in high school but has excelled academically during first year
—Should the student’s performance continue to excel, this scholarship is renewable if the student wishes to earn a bachelor’s degree

The Margaret D. Sovie Endowed Scholarship
—Second-year student
—Business Administration curriculum
—Must have maintained a B average
—Preference to a non-traditional student
—Financial need also considered
Brad Winters Annual Scholarship
—Entering student who is a graduate of Lisbon Central School

Woodcock Family Endowed Scholarship
—Financial need
—Preference to students from St. Lawrence County, then Onondaga County
—Mechanical Engineering Technology curriculum
—Additionally, to students in any curriculum with special preference to women

Woodside Family Endowed Scholarship
—Entering freshman or returning senior
—Air Conditioning Engineering Technology curriculum
—Preference to students from St. Lawrence or Erie County
—Financial need

The Katherine ’77 and Peter Wyckoff Scholarship
—Either entering or continuing Nursing student
—Non-traditional student

**SATISFACTORY ACADEMIC PROGRESS**

**FEDERAL AID**
*(Federal Stafford Loans, Parent Loans, Perkins Loans, Work-Study, Pell Grant, Seog Grants)*

Students receiving financial aid are required to maintain minimum program pursuit and academic progress standards in order to continue to receive assistance. Use the chart below for your degree program to determine your minimum requirements. *(Transfer credits are assessed at 12 per semester)*

### Certificate Programs

<table>
<thead>
<tr>
<th>SEMESTERS COMPLETED</th>
<th>PASSED CREDIT HRS.</th>
<th>CUMULATIVE GPA</th>
</tr>
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<td>1.25</td>
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### Associate Degree Programs

<table>
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<tr>
<th>SEMESTERS COMPLETED</th>
<th>PASSED CREDIT HRS.</th>
<th>CUMULATIVE GPA</th>
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</tr>
<tr>
<td>3</td>
<td>27</td>
<td>1.75</td>
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<tr>
<td>4</td>
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<td>2.00*</td>
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</table>

**Bachelor Degree Programs**

<table>
<thead>
<tr>
<th>SEMESTERS COMPLETED</th>
<th>PASSED CREDIT HRS.</th>
<th>CUMULATIVE GPA</th>
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<td>8</td>
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</tr>
<tr>
<td>9</td>
<td>105</td>
<td>2.00*</td>
</tr>
</tbody>
</table>

*Semester or Cumulative GPA

Academic progress requirements for part-time students will be prorated accordingly.

Additionally, students are required to complete their degree with 150% of a normal timeframe. Attempted hours will vary with required program lengths, see examples below.

**Example 1:** For a 60 credit hour degree program, you must complete it with 90 attempted hours. (90 attempted Credit Hours/60 Passed Credit Hours = 150%)

**Example 2:** The Nursing Associate Degree requires 65 credit hours. 65 Passed Credit Hours x 1.5 (150%) = 98 credit hours may be attempted.

Total attempted hours will be used regardless of any program changes that have occurred (switching majors, etc.). Grades of “W” count towards total attempted hours. Repeated courses that were previously passed count only once. Remedial courses that are not credit-bearing do not count in the total attempted hours.

Courses enrolled in each semester must be applicable to the students’ current degree program.

**FAILURE TO MEET MINIMUM STANDARDS (Please be aware that these are not the same as the Probation & Suspensions given out by the Dean’s Offices.)**

**STEP 1 – FINANCIAL AID WARNING**

A student who does not meet the required minimum standards will automatically be given a one-time warning semester. This gives the student an opportunity to correct any deficiencies without losing federal aid eligibility. If a student withdraws from college, they have not met academic progress requirements.

**STEP 2 – FINANCIAL AID TERMINATION**

A student who fails a second time to meet the minimum standards will lose all federal aid eligibility. Eligibility can only be regained once they are again meeting the minimum standards. NOTE: If ALL courses taken while on warning are successfully passed with a 2.0 or better you can continue on warning.

**WAIVER REQUESTS**

If failure to meet standards is due to extenuating circumstances beyond a students’ control, they may apply for a one-time waiver. All waiver applications must include full documentation and will be reviewed by the Financial Aid Director. Approval is not guaranteed. If approved the student will be given an academic plan to maintain eligibility.

An Academic Suspension from the Dean’s Office overrides this eligibility criteria. Suspended students are ineligible for all financial aid.

**NEW YORK STATE AID**
*(TAP Grant, SUSTA Grant, APTS Grant)*

Students receiving financial aid are required to maintain minimum program pursuit and academic progress standards in order to continue to receive assistance. Use the chart below to determine your minimum requirements. Note: Eligibility for all EOP funds is determined separately by the EOP Office.
• If you received TAP at another college, be sure to include that in the number of semesters you have received a TAP.

• To calculate the percentage of credits you have completed, divide total attempted credits by total earned credits.

Certificate/Associate Degree Programs (Remedial Students*)
* Remedial Students are EOP Students or any student required to take at least 2 remedial courses with the first two semesters.

<table>
<thead>
<tr>
<th>Semesters TAP Received</th>
<th>Earned Credit Hours</th>
<th>Cumulative GPA</th>
<th>Percentage of Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
<td>0.50</td>
<td>50%/6 credits</td>
</tr>
<tr>
<td>2</td>
<td>9</td>
<td>0.75</td>
<td>50%/6 credits</td>
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<td>75%/9 credits</td>
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<td>75%/9 credits</td>
</tr>
<tr>
<td>5</td>
<td>45</td>
<td>2.00</td>
<td>100%/12 credits</td>
</tr>
</tbody>
</table>

Certificate/Associate Degree Programs (Non-Remedial Students)

<table>
<thead>
<tr>
<th>Semesters TAP Received</th>
<th>Earned Credit Hours</th>
<th>Cumulative GPA</th>
<th>Percentage of Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>0.50</td>
<td>50%/6 credits</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>0.75</td>
<td>50%/6 credits</td>
</tr>
<tr>
<td>3</td>
<td>27</td>
<td>1.30</td>
<td>75%/9 credits</td>
</tr>
<tr>
<td>4</td>
<td>39</td>
<td>2.00</td>
<td>75%/9 credits</td>
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<tr>
<td>5</td>
<td>51</td>
<td>2.00</td>
<td>100%/12 credits</td>
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<td>6</td>
<td>66</td>
<td>2.00</td>
<td>100%/12 credits</td>
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<tr>
<td>7</td>
<td>81</td>
<td>2.00</td>
<td>100%/12 credits</td>
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<tr>
<td>8</td>
<td>96</td>
<td>2.00</td>
<td>100%/12 credits</td>
</tr>
<tr>
<td>9</td>
<td>111</td>
<td>2.00</td>
<td>100%/12 credits</td>
</tr>
</tbody>
</table>

Bachelor Degree Programs (Remedial Students*)
* Remedial Students are EOP Students or any student required to take at least 2 remedial courses with the first two semesters.

<table>
<thead>
<tr>
<th>Semesters TAP Received</th>
<th>Earned Credit Hours</th>
<th>Cumulative GPA</th>
<th>Percentage of Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
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<td>50%/6 credits</td>
</tr>
<tr>
<td>2</td>
<td>9</td>
<td>0.75</td>
<td>50%/6 credits</td>
</tr>
<tr>
<td>3</td>
<td>21</td>
<td>1.30</td>
<td>75%/9 credits</td>
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</table>

Bachelor Degree Programs (Non-Remedial Students)

<table>
<thead>
<tr>
<th>Semesters TAP Received</th>
<th>Earned Credit Hours</th>
<th>Cumulative GPA</th>
<th>Percentage of Credits Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>0.50</td>
<td>50%/6 credits</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>0.75</td>
<td>50%/6 credits</td>
</tr>
<tr>
<td>3</td>
<td>27</td>
<td>1.30</td>
<td>75%/9 credits</td>
</tr>
<tr>
<td>4</td>
<td>39</td>
<td>2.00</td>
<td>75%/9 credits</td>
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<tr>
<td>5</td>
<td>51</td>
<td>2.00</td>
<td>100%/12 credits</td>
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<tr>
<td>6</td>
<td>66</td>
<td>2.00</td>
<td>100%/12 credits</td>
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<tr>
<td>7</td>
<td>81</td>
<td>2.00</td>
<td>100%/12 credits</td>
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<tr>
<td>8</td>
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</tr>
<tr>
<td>9</td>
<td>111</td>
<td>2.00</td>
<td>100%/12 credits</td>
</tr>
</tbody>
</table>

Failure to Meet Minimum Standards
If a student fails to meet state academic progress requirements as outlined above at the end of the semester, they will lose eligibility for the next semester they attend. Eligibility will be regained once they meet the above standards. Additionally, students who stop attending for more than one year may regain eligibility upon return for one semester (if over 4 prior semesters of TAP you must have a 2.0 overall GPA). Then you must meet academic progress criteria each subsequent semester.

• If a student withdraws from college, they have not met academic progress requirements (automatic).

• APTS recipients who fail to receive a 1.0 (D) in a semester will not be eligible for APTS the following semester, even if otherwise meeting progress requirements.

WAIVER REQUESTS
If failure to meet standards is due to extenuating circumstances beyond a students’ control, they may apply for a one-time waiver. All waiver applications must include full documentation and will be reviewed by the Financial Aid Director. Approval is not guaranteed. If approved, the student will be given an academic plan to maintain eligibility.

IMPORTANT THINGS TO KEEP IN MIND
• Grades of “W” count towards total attempted hours.
• Remedial courses that are not credit-bearing, will not count in the total attempted hours.
• Repeated courses that were previously passed do not count as earned hours for the semester.
• Courses enrolled in each semester must be applicable to the students’ current degree program.
• Repeating any course in which a passing grade has already been received (D or above) will not count for TAP eligibility, unless the college catalog states a higher grade is required. For Federal Aid a course that is passed may be repeated only once.

An Academic Suspension from the Dean’s Office overrides this eligibility criteria. Suspended students are ineligible for all financial aid.
MAXIMUM STUDENT LOAD

Nineteen credit hours will constitute a maximum course load per semester. Additional hours may be undertaken only with the approval of the Dean of the School in which the student is enrolled.

ATTENDANCE

Students are expected to accept full responsibility for meeting all of the academic requirements for every course in which they are enrolled. Attendance regulations are determined by the faculty of each department based upon their academic requirements for each curriculum and/or course. At the beginning of each semester, faculty will state clearly the attendance policy in their course syllabus to the student. Notice of course failure may result from unexcused absenteeism/lack of participation in online courses or academic dishonesty. A grade of “F” will be recorded for a student so notified unless the student makes formal application for withdrawal from that course prior to the semester deadline for withdrawing without academic penalty, consistent with the college withdrawal policy. Forms may be obtained from School Deans’ Offices or online at: www.canton.edu/registrar/withdrawal_form.pdf. Suspension from college may be imposed by the Provost/Vice President for Academic Affairs if absenteeism has reached such proportions that further academic progress is not possible, with grades of “F” for courses not completed as of the suspension date.

DEVIAN'T ACADEMIC CONDUCT

The instructor may impose a penalty upon a student evidencing prohibited academic behavior. In those instances where cheating, plagiarism, and/or alteration of academic documents are proven, a student will be subject to a grade of “F” for the specific assignment and/or course. Similarly, a student may be dismissed from a course with a grade of “F” as a consequence of intentional disruption, obstruction or comparable class misconduct. These consequences should be included in the class syllabus. After written notification of the charge by the instructor, students may initiate the academic student grievance procedure if they believe they have proof that the charge is unwarranted.

GRADING AND HONOR DEFINITIONS

A credit hour is defined as three hours work per week per semester in any combination of class, laboratory and outside study time.

PASSING GRADE

A, B+, B, C+, C, D+, D and P are passing grades. The grade considered satisfactory for completion of a course as a prerequisite for subsequent courses or activities will be determined by each department or program and stipulated in the course description.

GRADE POINT AVERAGE

The Grade Point Average is determined by dividing the total grade points earned by the total academic credit hours attempted (not including W’s, I’s, P’s, or Equivalent Credits).

<table>
<thead>
<tr>
<th>Letter</th>
<th>Grade pts. per credit hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00—Excellent</td>
</tr>
<tr>
<td>B+</td>
<td>3.50—Very Good</td>
</tr>
<tr>
<td>B</td>
<td>3.00—Good</td>
</tr>
<tr>
<td>C+</td>
<td>2.50—Above Average</td>
</tr>
<tr>
<td>C</td>
<td>2.00—Average</td>
</tr>
<tr>
<td>D+</td>
<td>1.50—Below Average</td>
</tr>
<tr>
<td>D</td>
<td>1.00 Minimally Passing</td>
</tr>
<tr>
<td>F</td>
<td>0.00—Failing</td>
</tr>
</tbody>
</table>

HONORS LISTS

Honors Lists for each semester will be prepared by the Registrar’s Office and sent to the Office of Public Relations for distribution to the news media. Media releases will not include the names of students who have restricted the release of directory information pursuant to FERPA (p. 49).

President’s Honors Lists will include the names of full-time students who earn
semester GPAs of 3.75 or higher. To be eligible, students must be enrolled in 12 or more academic credit hours graded A to F.

Dean's Honors Lists will include the names of full-time students who earn semester GPAs of 3.25 or higher. To be eligible, students must be enrolled in 12 or more academic credit hours graded A to F.

Part-Time Academic Honors Lists will include the names of part-time matriculated students who earn semester GPAs of 3.25 or higher. To be eligible, students must complete 6 or more academic credit hours graded A to F.

MIDTERM GRADES
1. At midterm, faculty members will submit student grades electronically for all courses they are teaching or supervising via secure access through UCanWeb, the online student information system.

2. Faculty members may choose to report midterm grades with the same letter grade designations used for course grades; or as S (satisfactory), which indicates a grade of C or better, or U (unsatisfactory). Students will be informed of the faculty member's methods of determining and reporting midterm grades in the course syllabus distributed at the beginning of each semester.

3. All midterm grades are available to students electronically through secure access to UCanWeb. Students receiving grades of D+, D, F or U should seek out their instructors/academic advisors to identify the problem, seek additional support services (tutoring labs), and make the necessary improvement.

STUDENT GRADES
The permanent record is the official academic record and is permanently filed in the Registrar's Office. Only personnel authorized by the Registrar may have direct access to permanent records.

Final and mid-term grades are available to students online through secure access to UCanWeb. Final grades will only be mailed to the student's home address by special request to the Registrar's Office. Final grades may be withheld from any student who has a delinquent college obligation.

INCOMPLETE GRADES
An incomplete grade may be assigned by a faculty member in cases when, for valid reasons (sickness, accident, etc.), all of the required work has not been completed, but is otherwise satisfactory. Except in unusual cases, the delinquent work should not exceed 10-20 percent of the total required work.

Responsibility for making up incomplete work lies with the student. Incomplete work must be made up within two weeks after the first day of classes in the subsequent semester. Alternate arrangement (shorter or longer time frame) can be implemented if agreed upon by the instructor and student and approved by the Dean of the School. If the work is not completed according to the agreed upon plan, the incomplete grade will be recorded as “F” on the student’s record.

WITHDRAWAL FROM COURSES
Following the course change period students may withdraw from credit courses without academic penalty (receiving a grade of “W”) under the following conditions, unless dismissed for deviant academic conduct:

—In order to maintain the academic integrity of the institution, the academic focus of the students and adequate student academic progress toward a degree, a matriculated full-time student may not drop courses below a 12-credit hour load while a semester is in progress. In case of exceptional circumstances beyond the student's control and with the written approval of the Dean of the School in which the student is enrolled, a student may drop below the limit to part-time status. Students are encouraged to consult with the Student Service Center and Residence Life Office to determine the impact of this academic decision before dropping to part-time status.

—Withdrawal from a course is accomplished by means of a Drop/Add Form available in the Deans' Offices and Registrar's website at www.canton.edu/registrar. This form must be signed by the advisor and the Dean of the School. A $20 fee must be paid at the Student Service Center and the completed form must be delivered by the student to the Registrar's Office. The course withdrawal will not be official until the form, fully completed, is received by the Registrar.

—Withdrawal is allowed under the above conditions prior to the last ten class days of the semester. In courses less than a semester in length, withdrawal is allowed prior to completion of 85 percent of the class meetings.

—A matriculated part-time student may not withdraw from any course unless exceptional circumstances exist and the above procedure is followed.

—Non-matriculated students are not subject to these conditions and are not required to pay the $20 fee.

—A student may withdraw from a course only once under the above conditions. A subsequent withdrawal from the same course will result in an “F” (failing) grade unless there are extenuating circumstances acceptable to the Dean of the School in which the student is enrolled.

—Signatures of the advisor, and School Dean do not necessarily indicate approval of the action, but signify that counseling has occurred and the student is fully aware of the consequences of course withdrawal.

—Failure to attend class or merely giving notice to an instructor is not an official withdrawal.

—A grade of “W” (Withdrawn) will be recorded for courses dropped and will not be used in calculating GPA.

—Students may withdraw from non-credit courses. Official notice must be given in
writing by the student to the Lifelong Learning Center director. When the Director has been informed, official withdrawal will be executed with copies to the student, instructor, Registrar and Student Service Center.

**REPEATING COURSES**

Students may repeat courses. If higher, the grade earned in the repeated course shall be substituted for the original grade in computing the GPA.

**TRANSCRIPTS**

A properly signed authorization by the student must precede any external distribution of a student's transcript. An official transcript will be impressed with the college seal. Each student will be assessed an official transcript fee of $5 per semester, which allows students unlimited lifetime transcripts. The College reserves the right to deny transcripts to any student who is delinquent in an obligation to the College.

**FINAL EXAMINATION**

There will be a final examination period at the end of each semester. This period must be used by the professor for a comprehensive final examination, the last unit test, or some other activity of academic merit.

**COURSE AUDIT**

With permission of the instructor, a person may audit any credit course offered by the College. A maximum of two courses may be audited in one semester, unless a waiver is obtained from the Provost. An individual may not audit the same course in two consecutive semesters. The Course Audit Form, which is available from School offices or the Registrar, must be completed and returned to the Registrar's Office. Course audits require a registration fee of $50 per course, but are free of charge for those 60 years of age and over. Individuals may not begin auditing a course until the registration process is completed as described on the course audit form. Once the individual has elected to audit a course, one cannot subsequently change the audit to credit. No credit is granted for audited courses. The course auditor will abide by the conditions agreed to by the instructor and auditor as stated on the course audit form. Auditors must adhere to the Student Code of Conduct as published on the college website, in the Student Handbook and in each course syllabus. Permission to audit may be revoked for disruptive or inappropriate behavior. Campus student services (i.e. Academic Support Services, Counseling, etc.) are not available for course auditors.

**WITHDRAWING FROM THE COLLEGE**

Students wishing to withdraw from the College must obtain and sign a withdrawal form from the appropriate School Dean or Registrar's website. In the case of non-matriculated students, the form is to be obtained from the Registrar's Office.

Matriculated students must obtain the signatures of the 1) School Dean, 2) Counselor (or EOP Counselor for EOP students), 3) Student Service Center Officer, and 4) Registrar.

Non-degree students must obtain signatures from the Student Service Center and Registrar.

Students may not officially withdraw from college during the last ten instructional days of a semester, exclusive of the final exam period.

The withdrawal will not be considered official until the official withdrawal date has been entered by the Registrar's Office. All signatures must be obtained and the completed form presented to the Registrar.
by the individual withdrawing.

**ACADEMIC FORGIVENESS POLICY**

The intent of this policy is to allow students who previously accrued a SUNY Canton academic record with a substantial number of grades below the 2.00 level of C to be “forgiven” for their earlier performance, if they meet certain criteria.

Academic Forgiveness in this context means that the student’s previous college work shall be treated as if it had been transferred to SUNY Canton from another college: none of the grades received would be counted in the current GPA, but the student would receive credit for any courses in which he/she earned a C or above. All General Education requirements completed during prior attendance would continue to count as requirements met, but only courses with a C or higher grade would be included in credits earned toward the degree, at the discretion of the School Dean.

Students wishing to apply for the privilege of Academic Forgiveness must meet the following criteria:

1. The student must not have taken any coursework at SUNY Canton for a minimum of two calendar years at the time of proposed readmission.
2. The student must complete the Academic Forgiveness Application Form at the time of application for readmission. The application will include a reflective summary of why he/she should be considered for the privilege.
3. The student will not have attempted more than two semesters of coursework at SUNY Canton prior to readmission if enrolled in an associate degree program, or more than four semesters of coursework if enrolled in a bachelor's degree program. Students must complete at least one half of their degree requirements credits at SUNY Canton after forgiveness is granted.
4. The student is not eligible to receive Academic Forgiveness until he/she has completed a full-time semester of at least 12 credit hours as a readmitted student. In this probationary semester, the student must receive at least a C in every course and is not permitted to withdraw from any courses.
5. The student will be placed on academic probation for this first semester after readmission.
6. Upon completion of the probationary semester, if all requirements for Academic Forgiveness have been met, the School Dean will notify the Registrar so that the student’s academic record may be modified.
7. If approved for Academic Forgiveness, a notation to this effect will be made on the student’s SUNY Canton transcript and a new cumulative GPA will be calculated for all work beginning with the semester of readmission. This new GPA will be printed on the official transcript and used for computing the student’s academic standing, and for meeting the minimum GPA requirement for graduation. All previous SUNY Canton work will continue to be listed on the transcript with the original grades received.
8. Academic Forgiveness may be granted only once in a student’s college career at SUNY Canton.
9. Academic Forgiveness does not override state and federal financial aid regulations and satisfactory academic progress standards. Also, repeating courses previously passed may not count toward full-time enrollment for financial aid purposes. Students should contact the Student Service Center for information on their eligibility if considering applying for Academic Forgiveness.

Students applying for Academic Forgiveness must also apply for readmission. See page 9 for more details.

**GENERAL EDUCATION REQUIREMENTS**

The General Education Program at SUNY Canton is designed to provide students, throughout their college years, with a broad set of coherent and focused educational experiences aimed at enabling them to acquire knowledge and skills that are useful and important for all persons, regardless of their jobs or professions. General Education goes beyond the acquisition of the skills necessary to be competent in a field of specialization. It involves the discovery, evaluation, and transmission of essential knowledge that prepares students to lead fulfilled lives and to assume roles as creative and contributing members of society.

In accordance with the SUNY Board of Trustees Policy on General Education, all entering freshmen must meet specific General Education requirements. Faculty and students will periodically be required to engage in assessment activities to ensure that the General Education learning outcomes are being met. At SUNY Canton, students enrolled in the Associate of Arts (AA) or Associate of Science (AS) degree must complete seven of the ten Knowledge and Skills Areas of General Education in order to transfer seamlessly to another SUNY college to earn a baccalaureate degree. In order to meet graduation requirements, students enrolled in a SUNY Canton baccalaureate degree program must complete 30 credit hours of general education which must include Mathematics (GER 1) and Basic Communication (GER 10) as well as at least three credits each in at least five of the following academic areas – natural science, social science, American history, Western Civilization, Other World Civilizations, humanities, the arts and foreign languages. (See individual baccalaureate degree requirements for exceptions to this mandate.) All students will fulfill competency outcomes in Critical Thinking and Information Management, which are infused throughout the curricula. Courses meeting specific General Education knowledge and skill areas are so
designated in the course description section of the catalog. Students should work carefully with their advisors to ensure they are fulfilling the SUNY General Education Requirements (GER) in order to transfer seamlessly to another SUNY college or to meet SUNY Canton baccalaureate graduation requirements.

**SUNY General Education Requirements**

I. KNOWLEDGE AND SKILL AREAS (GER 1-10)

1. Mathematics
2. Natural Sciences
3. Social Sciences
4. American History
5. Western Civilization
6. Other World Civilizations
7. Humanities
8. The Arts
9. Foreign Language
10. Basic Communication

II. COMPETENCIES

1. Critical Thinking (Reasoning)
2. Information Management

**Graduation Requirements**

**Graduation Degrees and Certificates**

The College is authorized to grant the Bachelor of Technology (B.Tech.) degree, Bachelor of Science (BS), and the Bachelor of Business Administration (BBA) degree each requiring a minimum of 120 credit hours; four associate degrees, each requiring a minimum of 60 credit hours; and the Certificate, requiring a minimum of 30 credit hours. The associate degrees are the Associate in Applied Science (AAS), Associate in Science (AS), Associate in Arts (AA), and Associate in Occupational Studies (AOS).

The College reserves the right to make modifications to a prescribed curriculum.

**Baccalaureate Degrees**

1. A student must be matriculated in a SUNY Canton curriculum for a minimum of 30 semester credit hours of graded course work earning a minimum GPA of 2.00 for all such credit hours taken. Individual programs may have additional graduation requirements.

2. The successful completion of the prescribed curriculum.

3. The successful completion of a writing intensive course taught within the prescribed curriculum.

4. The successful completion of SUNY Canton Computer Competency requirement (see page 39).

5. The earning of an overall GPA of 2.00 unless otherwise prescribed.

6. Payment of all financial obligations to the College.

**Associate Degrees**

1. A student must be matriculated in a SUNY Canton curriculum for a minimum of 15 semester credit hours of graded course work, earning a minimum GPA of 2.00 for all such credit hours taken. Individual programs may have additional graduation requirements.

2. The successful completion of the prescribed curriculum.

3. The successful completion of a writing intensive course taught within the prescribed curriculum.

4. The successful completion of SUNY Canton Computer Competency requirement (see page 39).

5. The earning of an overall GPA of 2.00 unless otherwise prescribed.

6. Payment of all financial obligations to the College.

7. Students matriculated in a baccalaureate program for a minimum of fifteen semester credit hours of graded coursework, earning a minimum GPA of 2.00 for all such credit hours taken, may be granted an associate degree in a related curriculum, without matriculation in that curriculum, upon completion of all associate degree requirements and application to the School Dean for the associate degree program.

Students failing to graduate due to failure, deficiency of grade points or credit hours, may be granted the degree after successful completion of the work either at SUNY Canton or another accredited college within seven years of departure. These hours must have the prior approval of the School Dean or Department Chairperson. Students may repeat through transfer a maximum of three courses with grade points from other colleges. All other courses transferred will be recorded as “CR” credit only.

**Certificate Programs**

1. A student must be matriculated in a SUNY Canton curriculum for a minimum of 12 semester credit hours of graded course work, earning a minimum grade point average of 1.75 for all such credit hours taken. Individual programs may have additional graduation requirements.

2. Successful completion of all required courses.

3. A minimum GPA of 1.75, unless otherwise specified in the section describing that Certificate in the catalog.

4. Payment of all financial obligations to the College.

NOTE: Successful completion of a Certificate Program does not automatically qualify a student for admission to a degree curriculum. In order to be admitted to a degree curriculum, the graduate of the Certificate Program must achieve a record that indicates a reasonable probability of success in the new curriculum and be recommended by the faculty.
**AWARDING TWO BACCALAUREATE DEGREES**

In order to qualify for a second baccalaureate degree from SUNY Canton, a student must satisfactorily complete at least 30 semester credit hours beyond the first degree requirements and also meet the specific curriculum requirements of the second program. All of the subsequent work should be taken in an essentially different area of specialization.

A student who wishes to earn a second baccalaureate degree at SUNY Canton must have written approval of course requirements by the appropriate School Dean. When the required courses are completed, the School Dean will notify the Registrar that the student is to be certified for the additional degree.

**COMPUTER COMPETENCY REQUIREMENT**

The SUNY Canton Computer Competency requirement ensures each student has or obtains the basic computer skills necessary for word processing, spreadsheet utilization, graphical presentation, and online course participation. This requirement is fulfilled in one of two ways. First, students satisfactorily completing SOET101 or CITA110 (required in many curricula) will meet the requirements of Computer Proficiency. Second, students not scheduled to take either of these courses for their major will be required to complete an online assessment of basic computer skills. The assessment will identify specific areas where assistance may be needed. If further assistance is needed, resources will be available through tutorials available online or at the library. Students are encouraged to complete this requirement as early in their studies as possible to assure that any deficiencies are addressed as soon as feasible. The assessment may be repeated until successful at which time the Registrar's Office is notified. Students are informed via campus email of the assessment's availability along with instructions during the first few weeks of the semester. Details regarding Computer Competency and associated objectives may be found at [http://www.canton.edu/academics/computer.html](http://www.canton.edu/academics/computer.html).

**ACADEMIC REQUIREMENTS—RE-REGISTRATION**

To register for the second or any subsequent semester, a full-time matriculated, degree student must achieve the following standards (see charts below) or have the approval of the Dean of the School in which the student is registered.

**Good Standing**

<table>
<thead>
<tr>
<th>SEMESTERS COMPLETED</th>
<th>PASSED CREDIT HRS.</th>
<th>CUMULATIVE GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9</td>
<td>2.00</td>
</tr>
<tr>
<td>2</td>
<td>18</td>
<td>2.00</td>
</tr>
<tr>
<td>3</td>
<td>27</td>
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<td>51</td>
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<tr>
<td>6</td>
<td>63</td>
<td>2.00</td>
</tr>
<tr>
<td>7</td>
<td>75</td>
<td>2.00</td>
</tr>
</tbody>
</table>
Any matriculated student who earns an index of less than 1.50 in each of two consecutive semesters may be suspended. Exceptions to this rule may be made by the School Dean.

Any student who is suspended from College for academic reasons will have two options: 1) Submit an academic appeal and detailed plan for success by the stated deadline, or 2) complete six to twelve college credits at another college and achieve a 2.5 GPA or better and then apply for readmission to Canton after one semester has passed by writing to the Director of Admissions. Permission to reregister is not automatic and will be granted only after approval by the appropriate School Dean.

Students placed on academic probation who fail to meet all requirements of the program may be immediately suspended. Probation is a privilege and not a right: students pursuing either a certificate or associate degree may be granted a maximum of one semester of registration on academic probation, and students pursuing a baccalaureate degree may be granted a maximum of two non-sequential semesters of registration on academic probation during their academic career at SUNY Canton.

Students suspended or dismissed from the college for disciplinary reasons will receive all grades for courses completed. Suspensions or dismissals which are the result of disciplinary recommendations by the Student/Faculty Board to the President may also include grade recommendations concerning the transcript of the student for the semester in which suspension or dismissal was imposed.

Students who voluntarily withdraw from College will be permitted to re-register with the concurrent written approval of the Director of Admissions and the School Dean of the requested curriculum.

None of this section should be construed to give the student an absolute right to reregister at the College if the student has the appropriate cumulative index. All other college regulations concerning student behavior continue to apply, and re-registration is in no way guaranteed to any student.
Taking an Online Course

In an online course, students connect with their teacher and classmates via the computer using the Internet. Course materials, tests, assignments, and discussions are delivered via the college’s learning platform called ANGEL®. Students can virtual chat with their instructor, collaborate with other students, and participate in classroom discussions in their online courses. Online courses provide students with the flexibility and convenience of studying anytime, anywhere in an interactive and innovative learning environment.

Course Expectations

SUNY Canton’s online courses provide the same quality experience as our traditional campus-based courses and have the same credits and requirements as face-to-face courses. All of SUNY Canton’s online courses and academic programs are designed to produce the same learning outcomes as traditional courses. To ensure quality, online courses undergo a vigorous course review process before they are offered online.

The majority of online classes are not self-paced and active online participation is often mandatory. Additionally, many online courses have extensive reading and writing demands.

Requirements

Students in online courses are required to be more responsible for their learning. Strong time-management skills and study habits are essential in this learner-centered environment.

To participate in an online course, students need to have access to a working computer and connection to the Internet. Broadband connection, such as Roadrunner or DSL, is preferred. Students should check the course syllabus for broadband requirements before registering for a course. Additional technical requirements include:

- Operating System (Windows 2000, XP, Vista, or Macintosh OS X)
- The latest browser available (Internet Explorer 7+, FireFox 2+)

Learner Support

SUNY Canton is dedicated to helping students achieve their educational goals by supporting and promoting initiatives that enhance student accessibility and academic excellence in online learning environments. SUNY Canton online students have access to the same advisement, registration, financial aid, library, academic and support services as on-campus students. Our library provides online tutorials on Internet research and links to databases and electronic journals. Academic Support and Accommodative Services offer tutoring, academic assistance, and various resources and materials online. Learner resources and support services are available online through the www.canton.edu website.

On a technical level, SUNY Canton’s Information Services offers on-going technical support to students during normal institutional working hours for hardware, software, and course management issues through their Help Desk at helpdesk@canton.edu. Additional technical support is provided through the SUNY Learning Network’s (SLN) Help Desk at Helpdesk@sln.suny.edu. UCanWeb provides access to various student services such as financial aid, registration, course schedules, grades, and unofficial transcripts.

Accreditation

SUNY Canton is approved to offer distance learning through the Middle States Commission on Higher Education (MSCHE). Some programs are SUNY and SED approved to be offered online. See individual academic programs for more information.
Academic Support Services

Academic support services enhance the educational opportunities for all students at SUNY Canton. For complete descriptions and current contact information, go to www.canton.edu/academic_support_services. All academic support services are free of charge to SUNY Canton students.

Placement Testing

SUNY Canton requires new matriculated students to take the Accuplacer placement exam unless exempt as determined by standardized test scores. Transfer students must demonstrate a “C” or better in a college-level English course to be exempt. Students required to test will be notified after acceptance. Accuplacer is administered over the internet. SUNY Canton offers both on-site and remote testing possibilities. For details and practice test items, go to www.canton.edu/placement_testing or call 315-386-7684.

Developmental Studies

Developmental education courses allow students the opportunity to build competencies in reading, writing, and mathematics that are essential to college success. Placement in these courses is based on test results, admissions referral and/or faculty referral. The developmental studies faculty works closely with students and their curriculum advisors to encourage growth in academic skills and the exploration of personal and vocational goals. Students are given the opportunity to demonstrate their potential for success in the academic environment.

Advising and First-Year Programs

Advising and First-Year Programs is here to help you with your transitions. We want to assist you with your adjustment to college-level learning and responsibility. We want to provide you with the information you need to make wise and informed decisions. We assist by:

- Planning and coordinating Orientation, including hiring of Orientation Leaders
- Coordinate the First Year Experience (FYEP 101) class and experience
- Provide you with information on the academic rules and resources
- Provide degree worksheets and advice on degree completion
- Assist students considering a change in major to understand their unique situation
- Assist students in preparing to meet with their faculty advisors and plan a schedule
- Work with students on academic probation to help them get back on track

Educational Opportunity Program

The Educational Opportunity Program (EOP) is committed to the recruitment, retention, and graduation of students who normally would not be afforded the chance to pursue a college education. Students are admitted who meet specific academic and financial criteria and who demonstrate the potential for post-secondary success. EOP provides academic support services, personal counseling, tutoring, and financial assistance.

Student Support Services Program

The Student Support Services (SSS) program is a federal TRIO program providing academic support services to a selected group of financially and academically eligible students and students with disabilities. The goal of the program is to retain participants and to have many continue their education toward a baccalaureate degree. SSS provides a variety of support services, including intensive assistance in core courses, study skills, time management, academic counseling, and transfer assistance.

Tutoring Services

A Tutor Coordinator assesses requests for tutoring and outlines a plan with the student. This action plan may include time management counseling, peer/professional tutoring, referral to a Learning Lab and/or academic and study skills counseling. SUNY Canton is committed to providing assistance to those who want help and who are willing to take responsibility for their academic work. Many curriculum-specific learning centers with professional help are freely available.

The Math Lab

The Math Lab provides tutoring and academic support services to students enrolled in math courses, applied mathematics courses and technical courses. Professional
and peer tutors provide assistance in all levels of mathematics ranging from basic math skills to calculus. The primary goals of the Math Lab are to reinforce concepts taught in the classes, to provide students with the opportunity to work collaboratively, and to teach students how to become independent learners.

THE WRITING CENTER

The Writing Center provides individual and group tutoring for all levels of English courses and writing intensive courses across the curriculum. The Center also provides assistance in textbook comprehension and general study skills. Professional tutors assist students in revising written work with the goal of teaching students to become competent and confident writers. Professional help is also available to work with students who are multi- and bi-lingual.

SCIENCE TUTORING AND LEARNING CENTER

The Science Tutoring and Learning Center (STLC) provides tutoring and academic support services to all students enrolled in science and applied science courses offered by the college. Staffed by professionals and peer tutors, the STLC offers individual and group tutoring plus test review sessions. The primary goals of the STLC are to reinforce concepts taught in the classes and laboratories and to teach students how to become independent learners.

SOUTHWORTH LIBRARY

Southworth Library is located in the geographic center of the campus. Its services and resources are available on three levels, with the reference collection, reserve materials, a computer lab, tutoring support services and the Information Services Help Desk on the first floor. The second level houses book stacks, individual study carrels, group study and media-viewing rooms, current and back-issue journals and periodicals, and the Writing Center.

The facility provides space for group discussion, quiet study and intensive tutoring, including math and accounting, science, writing, and computer tutoring labs. The computer lab provides space for one-on-one tutoring as well as information literacy instruction for classes. The library’s collection includes approximately 50,000 print and 30,000 electronic books, extensive electronic databases, and a variety of digital media. Additionally, the college has access to all books within the SUNY system available via interlibrary loan, and SUNY Canton students, faculty and staff have borrowing privileges at all of the Associated Colleges libraries, including Clarkson, St. Lawrence University and SUNY Potsdam.

The 24/7 availability of electronic books and various databases is particularly supportive of non-resident students and online courses. For resident students, the building is equipped with wi-fi in support of mobile computing, and laptops, iPads, Kindle reading devices and other emerging technologies are available for loan as well. Ongoing innovative technology initiatives support both the learning styles and the needs of the 21st-century learner. The library also offers a highly successful, in-demand reserve textbook collection, as well as a large number of anatomical models that support hands-on learning for students in the sciences and health programs.

Professional librarians are available during library hours to assist students with a full range of library services, and a web-based chat reference service provides access to professional research assistance at any time, 24 hours a day, 7 days a week.

In response to student need, the library has extended its hours of operation and is currently open 114.5 hours a week during the regular academic term, and also maintains 24-hour/7-day accessibility for the midterm and final examination weeks.

ACCOMMODATIVE SERVICES

The Office of Accommodative Services is committed to the full inclusion of all students who can benefit from full access to educational advancement.

In accordance with Section 504 of the Rehabilitation Act of 1973 and Section 508 and the Americans with Disabilities Act of 1990, the college community endeavors to make reasonable adjustments in its policies, practices, services, and facilities to ensure equal access for students with disabilities.

The college will also strive to ensure that an otherwise qualified individual with a disability will not, on the basis of that disability, be subjected to discrimination under academic programs, services and activities offered by the College.

The mission of the Office of Accommodative Services is to provide academic accommodations for all qualified students who have documentation of a learning disability, mental health diagnosis, or a physical disability. It is the initial responsibility of the student to identify her/himself as having a disability, request accommodations, and submit complete and credible documentation of their diagnosis. The student must register with the Office of Accommodative Services in order to request and receive academic accommodations. Accommodations will be determined on an individual basis. The Office of Accommodative Services will coordinate, assist, and advocate for students requesting academic accommodations, non-academic auxiliary aids, or services with the appropriate academic or professional campus office. Personal care needs are the responsibility of the student.

For additional information regarding Accommodative Services and our documentation guidelines, please call (315) 386-7392 or visit us at http://www.canton.edu/accommodative_services/.
The educational experience at SUNY Canton consists of both academic efforts in the classroom and developmental opportunities through programs offered by the Division of Student Affairs. Overall, the Division is concerned with the quality of life of each student and provides programs and services which . . .

—Promote student development by encouraging positive and realistic self-appraisal, intellectual development, physical fitness, the capacity to appreciate cultural and aesthetic differences, the capacity to work independently and interdependently, and to make appropriate personal and occupational choices;

—Assist students in overcoming personal, physical or educational problems;

—Identify environmental conditions that may negatively influence welfare of students and take steps to overcome such conditions.

The Student Affairs staff has a major responsibility for the quality of student life on the Canton campus. The staff works closely with students through the services available in the Counseling, Health Services, Intramural Sports, Diversity, University Police, Student Activities, and Residence Life Offices.

**New Student Orientation Programs**

The College recognizes the social and academic adjustments which must occur for entering college students to be successful. To enable new students to move with ease and confidence from the home/high school, SUNY Canton provides an orientation program as a total campus endeavor. All new students are expected to participate in orientation. During orientation, students get a sense of the academic expectations, a taste of campus life and have a chance to meet other new students as well as campus student leaders.

**Counseling Center**

The Counseling Center supports the mission of SUNY Canton and the Division of Student Affairs by contributing to the improvement of both mind and character of our students. By responding to the personal and psychological needs of the student body, we strive to support their independence and emotional well-being, assisting them in negotiating the complexities of college and successfully preparing them to meet the challenges of the future.

The Counseling Center provides professional and confidential counseling services to assist students in achieving their personal and academic goals through consultation with organizations, faculty, staff and administrators. Collaboration with departments on and off campus contributes to accurate response, assessment, and/or referral.

The Counseling Center provides individual and group counseling, crisis intervention, outreach, educational presentations, and leadership training. The Center is dedicated to maintaining an open atmosphere on campus, honoring the numerous social and cultural contexts represented by our students.

The Counseling Center plays an integral role in promoting a safe and positive environment which values the unique contribution of all individuals and establishes a foundation conducive to learning and developing a healthy lifestyle.

**Residence Life**

**Residence Halls**

At SUNY Canton, we consider on-campus living an important part of your education—in fact, it's an education in itself. Living in one of Canton's five residence halls means that your life here will include far more than classroom and lab work... it means that SUNY Canton will be your home for 9 out of 12 months for the next two years.

Canton's five halls—Heritage, Mohawk, Rushton, Smith and Grasse River Suites—are located along the Grasse River near classroom buildings, the library, the gym, other recreational facilities, and Chaney Dining Center. It is about a ten minute walk over the footbridge to downtown Canton. The residence halls provide you with a living environment that is clean, safe, and pleasant at an affordable price.

Rooms are attractively furnished with beds, desks, chairs, dressers, mirrors, floor lamps, blinds, and large closets or armoires. Cable TV is also provided. Three rooms are clustered around an adjoining bath in Heritage, Rushton, Mohawk and Smith. In Grasse River Suites, each apartment has at least one full bath. While we provide the basics, you may desire to add a touch of home with such items as rugs, posters, desk lamps or plants. Each building has a formal main lounge equipped with a TV and comfortable furniture.

**Live On Campus?**

SUNY Canton provides students with a pleasant affordable residential experience that assists you in getting the most out of College. Have you thought about why you should live on campus? Here are some of the advantages:

**Convenient:**

Living five minutes from your classes, computer lab, library, gym, or fitness center can’t be beat in the heart of winter. Having your food prepared for you, your parking lot plowed, your heat, electricity, cable paid for, and your friends just down the hall, all make your college experience more comfortable. No more getting up at 5:30 a.m. to clean the snow off your car so you can make the commute for your 8:00 a.m. class.

**Internet Access:**

Recognizing the role that the Internet...
plays in the educational and social lives of college students, the Residence Life Office undertook the challenge to bring Road Runner high-speed Internet access to all students residing in Heritage, Rushton, Mohawk and Smith residence halls. Grasse River Suites has wireless internet provided by Road Runner. With Road Runner, our students do not have to worry about a modem tying up their phone line or slow download speeds. Additionally, many other areas on campus have wireless Internet access—all you need to bring with you to utilize this service is your wireless Internet card for your laptop computer! As long as the Internet is a valuable resource, we will continue our ground breaking mission to provide students with the best opportunity for success on today’s fast-paced technological society.

**IT’S WHERE THE ACTION IS:**

When you talk to friends who have gone to college, they first think back to the fun they had in the Residence Halls. From the pizza parties, the intramural champion teams, the late night study groups, the floor trips and activities, to the lifelong friends that you will make, the residential experience is a must.

**SAFE:**

Your personal safety on campus is a priority for us. Our campus is well lit, patrolled and secure with electronic front door access systems, room combinations, and blue light system. This allows you to spend more time doing the things that are important to you, right here on campus. This means no driving home after a long day of classes and studying and affords you one of the best opportunities to pursue your education.

**LIFE-STYLE OPTIONS**

Numerous life-style options have been developed to assist you in finding just the right match for your “home-away-from-home.” They are:

- **All-Female Wing** – This wing will be reserved for female students only.
- **Non-Themed Housing** – These rooms are in co-ed wings and do not have a centralized theme. These rooms are suited best for students who are not interested in living in theme housing, but are looking for a more traditional-styled college living experience.
- **Intensive Quiet Atmosphere** – A co-ed wing featuring alternating male/female rooms with single sex bathrooms. Students in this wing will not be permitted to have stereo speakers or use computer speakers and are permitted only headphones for music listening purposes. Quiet hours are continually in effect, with a break from 4-8 pm daily. Students are asked to keep their doors closed when watching television so as not to disturb others.
- **Suites** – Private, apartment-like living with a living room, bathroom and two bedrooms. Four students share these suites at an additional cost per semester and they will have to care for their own bathrooms. Suite space is very limited.
- **Rooms With Enclosed Bath** – These rooms will offer students additional privacy with external doors on the hallway, giving you a shared private bathroom (three rooms will share a bathroom). Students living in these rooms will have to care for their own bathrooms. These are NOT single rooms.
- **Vacation Housing** – This wing is designed primarily for international students who are unable to travel home on the college-sanctioned breaks where the residence halls are closed, but may be open to other students as well who require housing when the residence halls are closed. Students will pay an additional cost of $150 per week for each break they need to stay on campus, and need to confirm with their Residence Hall Director at least one week in advance of any break that they are approved to stay for that break. Students requiring housing for breaks when the residence halls are closed must select to live in this housing option, as other residence halls are closed during these times.
- **Substance Free** – Living facilities are provided which have a total ban of alcohol and other substance use. Every effort will be made to provide a substance-free environment for those students who request it. In this area, students who are over 21 years of age will not be allowed to possess alcohol.
- **Honors Floor** – This floor is designed for those students who are interested in academic honors programs at SUNY Canton and excelled academically in high school. The students living on this floor are hand selected and will have the opportunity to take part in extracurricular activities with staff and faculty members on the campus. The focus of this floor is academic excellence, and students who live on this floor will be expected to participate in regular study hours and maintain a minimum 3.00 semester and cumulative GPA while living on this floor.
- **Team Roo!** – This is a special interest floor for those playing college athletics, intramurals, or those who are simply athletically inclined or enjoy sports. Athletes on teams that need housing during times when the residence halls are closed must live in this wing or will need to make alternate arrangements during these vacation periods.
- **Gamer** – This is a special interest floor for those interested in gaming (such as video game systems like X-Box, Wii, PS3), board games and card games.
- **Grasse River Suites** – This brand new, state-of-the-art residence hall that offers apartment-style housing opened in Fall 2011 for upperclassmen students only. In selecting this option, you will receive a packet at your SUNY Canton e-mail address to be filled out to determine if you will be approved to live in this housing option. Eligibility requirements include, but are not limited to: grade point aver-
age, class year, and disciplinary record.

The Pet Wing – This housing option is designed for students who enjoy sharing their living space with animals. It is not a requirement that a student possess an animal to live on this floor, however, students who have allergies to any kind of animal are strongly discouraged from living in this area due to the various animals that live on these floors. Residents are permitted to bring small, caged pets from home with the prior approval of the Residence Hall Director. We’re sorry, but at this time we do not permit dogs (of any size), birds, or snakes in this living environment. You will be notified during the summer months if you are approved to live in this housing option. This wing is also designated as Alcohol Free.

All rooms are attractively furnished, costing you less than the average apartment per month. They come with standard room furniture and are wired for over 70 channels of cable. For the double room rate per semester, the price can’t be beat. It is the policy of the State University of New York that all residence halls are smoke free. No smoking will be permitted in any residence hall.

Mandatory Housing Policy
Every student in full-time attendance at SUNY Canton, other than married students, single parents, students residing with parent or guardian, or living in college-approved Greek housing are required to live on-campus, or be released from that requirement by the Director of Residence Life. Any student who is officially enrolled in a bachelor's degree program and is in their junior or senior year can be released. In addition, all students who live on-campus in college housing must contract one of the available meal plans with the College Association.

How Do I Sign Up?
To apply for a residence hall room, all you need to do is return the housing application with your life-style and roommate preferences and the appropriate deposit. You can also apply online through your UCanWeb account. If you have any questions or need a housing application, feel free to call us at (315) 386-7513, e-mail us at reslife@canton.edu, or visit us at: www.canton.edu.

Information Services
Information Services are available to every student attending the College. PC opportunities are located around the campus, providing all students with the opportunity for virtually unlimited use of PCs. All public PC labs use Microsoft Windows-based PCs connected to printers and the internet via the campus Local Area Network (LAN).

SUNY Canton participates in the Microsoft Campus Licensing Agreement. All students have access to standard software packages as listed on our website, http://www.canton.edu/it/. Many additional software listings are also available and can be found on the same site. Additional assistance for faculty, staff and students is available at the Help Desk. Each student receives an e-mail account.

The campus strongly supports distance learning opportunities for students. Many instructors make use of Internet-based instructional materials and testing, and some courses are taught entirely online.

Telephones
All residence hall rooms are furnished with a modular jack. Calls may be received and on-campus calls may be made at any time. Those students who wish to make long distance calls may do so by obtaining a Personal Identification Number (PIN). This will allow the student access to the college network of lines for calling at discounted rates.

Health Services
As a team of health care professionals, the Davis Student Health Center is dedicated to providing culturally competent medical care, educational programs and student advocacy which will enhance a student’s wellbeing and empower a student to become a well-informed consumer of health care during their lifetime. The Davis Health Center is fully accredited by AAAHC and is staffed by a physician, nurse practitioners, and support staff. The Health Center promotes healthy lifestyle choices as well as providing care for students with acute illnesses. Laboratory and x-ray facilities are available in Canton as well as at the hospitals in Potsdam and Ogdensburg. Referrals and consultation with medical specialists from the area are available when necessary.

All students enrolled in six or more credit hours must complete the SUNY Canton Health History and Immunization form. All of the health requirements can be found in the College’s Health History and Physical Exam form available in the Admission Packet or online at the Health Center’s web page. The completed form should be submitted to the Davis Health Center prior to the first day of classes. All athletes, international students and students in Nursing, Physical Therapist Assistant, Early Childhood Education and Dental Hygiene curriculums must complete the physical exam section. The physical exam section is optional for other students. Please refer to the Immunization section for exemptions to the required immunizations.

Immunizations
New York State Public Health Law 2165 requires students attending colleges and universities to demonstrate proof of immunization against measles, mumps and rubella (MMR). All students (six or more credit hours) at SUNY Canton will be required to show written proof of MMR immunity to the Davis Health Center prior to the first day of classes. Exemptions to this requirement are:
—Students born before January 1, 1957;
—Students who hold genuine and sincere
religious beliefs which are contrary to immunizations;
—Students for whom immunization would be physically detrimental or otherwise medically contraindicated;
—Students taking all classes online and not living on campus;
—Students who are part-time taking less than six credit hours.

New York State Public Health Law (NYSPHL) 2167 requires institutions, including colleges and universities, to distribute information about meningococcal disease and vaccination to all students attending college six or more credit hours. The law also requires that these students, whether they live on or off campus, acknowledge in writing that they have either:
—A record of meningococcal meningitis immunization within the past ten years; OR
—An acknowledgement of meningococcal disease risks and refusal of meningococcal meningitis immunization signed by the student or student’s parent or guardian if under age 18.

Failure to comply with either of these mandatory health requirements within 30 days from the start of classes will result in suspension from the College. All of the health requirements can be found in the College’s Health History and Physical Exam form in the Admission Packet or online at the Health Center’s web page.

INSURANCE

The College does not insure students against medical expenses which may result from an illness or accident while pursuing their activities at the College. Full-time students are mandated to have medical insurance, either under a policy held by the individual or parent, or through a health and accident policy available through the College. The insurance policy provided through the College provides medical coverage, including preventive services benefits such as screenings, exams and immunizations as specified by the Patient Protection and Affordable Care Act (PPACA).

All international students are required to purchase SUNY Medical Insurance for International Students.

OFFICE OF DIVERSITY AFFAIRS

The Office of Diversity Affairs operates in unison with the college by providing students quality cross-cultural programs, needed services, and engaging leadership development opportunities.

OUR GOALS:

• Identify the needs of students from under-represented ethnic and social groups.
• Provide counsel for students from under-represented ethnic and social groups regarding personal, academic, and social concerns.
• Identify, promote, and provide educational cross-cultural awareness programs.
• Identify, promote, advise, and provide leadership programming for students from under-represented ethnic and social groups.
• Provide or refer students to receive appropriate advocacy.

The services and programs available through our office and through networked referrals include:

• Programs/ Events/ Speakers
• Sensitvity Training
• Student Leadership Development
• Mediation between Individuals/ Groups
• Classroom Presentations
• Provide Resources Regarding Culturally Diverse Issues
• Personal Counseling
• Mentoring/ Tutoring/ Advising
• Advocacy

CAREER COACHING, EMPLOYMENT AND CONTINUING EDUCATION

The Career Services Office is a dynamic office that students should visit long before they get ready to graduate and look for a job. While the Office does help students prepare their job search documents, and brings many employers right to the campus to interview students, the Office also provides coaching and resources to help make sure they are on an academic/career path that is right for them.

Stop in to the office or log on to www.canton.edu/career, and check out the many resources available to students on topics like

• Job opportunities
• Internships
• Professional etiquette
• Starting a business
• Cover letters and resumes
• And more!

EMPLOYMENT

The Career Services Office coordinates one or two Career Fairs every year. Even if students are not ready to look for a job, a Career Fair is an excellent opportunity to talk to employers, get advice and make helpful connections.

When students are ready to graduate, Career Services can assist students in drafting resumes and cover letters, planning a job search and preparing for interviews. Students can even look for and apply to jobs listed specifically for SUNY Canton graduates on the Career Services recruiting website: Jobs4Roos.

Many employers come to campus to conduct on-site interviews. Below are a few of the companies for which SUNY Canton students have gone to work:

• Siemens Building Technologies
• BreconRidge
• New York State Police
• IBM
• Schneider Packaging Equip. Co.
• Schlumberger
• Noviels
• Canton-Potsdam Hospital
• IBEW
• Six Flags/Great Escape
• Champlain Valley Physicians Hospital

Recent graduates have taken jobs as far away as Florida and Texas.

CONTINUING EDUCATION

SUNY Canton has created a number of 1-, 2- and 4-year programs that allow you to continue your education. If, however, you decide to follow an educational path not offered at SUNY Canton, the Career Services Office can help you find a school that will meet your career goals. From personal advising to online resources, we can help you identify the school that will best be able to build on your SUNY Canton education. Over the years, graduates have continued their educations at large and small institutions all over the United States.

RECREATION AND ATHLETICS

SUNY Canton is rapidly expanding its athletic programs to mirror the extraordinary growth of the College. Four new sports teams were added during the 2011-12 academic year: women's volleyball, men's golf, men's lacrosse and women's lacrosse. Women's ice hockey will be added during the 2012-13 academic year.

The other teams that exist at the College include men's and women's soccer, men's and women's cross country, men's and women's basketball, men's ice hockey, women's softball and men's baseball.

During the summer of 2012, the NCAA Division III membership committee recommended SUNY Canton for NCAA provisional status, which is a big step toward eventual full membership. Most of SUNY Canton's opponents are NCAA teams as well as NAIA and USCAA competition.

SUNY Canton also participates in the United States Collegiate Athletic Association (USCAA) and competes against colleges throughout New York, Vermont, Maine, Pennsylvania and Massachusetts.

Each team holds open tryouts and welcomes interested student-athletes to attempt to earn a spot on the team. If you plan on trying out for a sport or would like more information, particularly regarding eligibility, we strongly encourage you to contact the coach or athletic department. Contact and other information can be found on the official SUNY Canton athletic website (www.rooathletics.com).

NEW ROOS HOUSE

In July 2011, SUNY Canton opened its brand new $42 million athletic facility nicknamed Roos House. The building features a three-court field house, indoor baseball/softball practice capability with year-round drop-down batting cages, new 5,000 sq. ft. fitness center, lap pool, ice rink, indoor golf cages, state-of-the-art athletic training room, dedicated team locker rooms and a dedicated study area for student-athletes with wireless computer access.

In 2008-2009, men's and women's soccer played their first full seasons on the college's new lighted synthetic turf field and baseball played its first games on their new baseball field. In the spring of 2011, a new scoreboard was added to the softball field and, in 2012, new fencing around the field.

SUNY Canton also offers a wide variety of intramural and free recreation programs. Whether you're looking for individual activities like a jog around the beautiful, on-campus cross-country trail, a workout at the Fitness Center, or a Zumba or aerobics class, there is something for you.

FITNESS CENTER

The SUNY Canton Fitness Center is open to all students seven days a week. It features all new Precor equipment including circuit weight machines, free weights and racks, and a variety of state-of-the-art cardiovascular machines including treadmills, elliptical machines, steppers and bikes. Most cardiovascular machines have television viewing capabilities.

INTRAMURALS

If you're looking for more of a competitive, structured recreational activity, the Intramural Department offers leagues in flag football, basketball, dodgeball, softball, volleyball, floor hockey, indoor soccer, badminton, and a variety of other weekend tournaments and activities. Programs are subject to change throughout any given year.

CLUBS AND ACTIVITIES

The Richard W. Miller Campus Center is the focal point for extra-curricular and co-curricular activities for the college community. It is part of the educational program as well as the social life of the College. The Miller Campus Center and Office of Student Activities staff encourages students to participate in social, cultural, educational and recreational activities in order to enrich their out-of-class life, to benefit their personal growth and development, and to educate them for the wise use of leisure time.

The College sponsors many clubs and activities. Student groups are easy to organize. Some 70 clubs serve academic, professional and cultural interests, and all clubs welcome students from throughout the college.

Participation in student government comes through the Student Government Association, the College Activities Board, and the Residence Hall Councils.

Students are also very involved in the design of the Paysonian yearbook. A sample of the clubs and activities:

• Diversified Ladies
• Black Student Union
• Newman Club
• Gospel Choir
• Greek Council
• Habitat for Humanity
• Karate Club
• Nursing Club
• Omega Alpha Club (commuting students)
• Outdoor Adventures Club
• Phi Theta Kappa (academic honor society)
• Paysonian Yearbook
• Auto Club

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association is the governance voice of the students and provides a means of cooperation and unity among the students, faculty and administration.

SGA is divided into three branches, the executive, legislative and judicial. The executive power is vested in a president, vice president, budget director, secretary and CAB president. The Senate, the legislative branch, is made up of student representatives from each club/organization or appointed by the SGA President. The Judicial Board is responsible for interpreting the constitution and for hearing cases in accordance with the Code of Student Conduct.

COLLEGE ACTIVITIES BOARD

The College Activities Board is the major entertainment and activities group for the campus, and all enrolled students are invited to participate in CAB activities. CAB is responsible for special weekends, films, coffeehouses, recreational tournaments, concerts, cultural, educational and social programs, and special events.

STUDENT JUDICIAL AFFAIRS

Most students find it relatively easy to adjust to the privileges and responsibilities of campus citizenship. For those students who find this process more difficult, the College provides such counsel as the student needs to gain insight and confidence in adjusting to college life. In some cases, when a student is unable or unwilling to assume his or her social responsibilities, it becomes necessary to impose disciplinary action.

The Code of Student Conduct is published yearly in the Canton Student Handbook, which can be viewed online at www.canton.edu/student_affairs/pdf/handbook.pdf. It is the obligation of all students to familiarize themselves with the regulations printed in the handbook.

UNIVERSITY POLICE DEPARTMENT

The University Police Department is the law enforcement agency for the campus. The goal of the Department is to work with the campus community in an effort to create a safe environment. Keeping in mind the specialized needs of a college campus, the University Police take an active role in the educational process; its educational, informational and awareness programs strive to enlist the assistance and cooperation of all members of the academic community in the promotion of practical and responsible community safety. The Department takes pride in its service-oriented approach which reflects a high degree of sensitivity toward the campus environment, student issues and campus community concerns.

The University Police Department is open 24 hours, seven days a week and can be reached by dialing 7777 from any campus phone or (315) 386-7777 from a non-campus phone. Among the services provided are:

—Vehicle registration, firearms registration and storage;
—Loan of motorist aids such as jumper cables, gas, booster pack and performing vehicle unlocks;
—A Crime Prevention Office providing free bicycle registration and personal property registration using Operation Identification;
—The campus lost and found department.

Students are permitted to have motor vehicles on-campus, provided all such motor vehicles are registered with the University Police Department, and the vehicle registration fee has been paid. Motor vehicle registration can be accomplished at the Student Service Center between 8:30 a.m. and 4:00 p.m., Monday through Friday. Students are required to abide by all parking regulations. A copy of the regulations is issued at the time of vehicle registration.

Temporary registrations may be obtained at the University Police Department or at the Student Service Center in French Hall.

CAMPUS SECURITY ACT

SUNY Canton crime statistics filed with the United States Department of Education can be located in the Jeanne Clery Act at http://www.canton.edu/clery_act. The Advisory Committee on Campus Security will provide upon request all campus crime statistics as reported to the United States Department of Education. You can obtain a copy of these statistics by contacting the University Police Department at 315-386-7777. The United States Department of Education website is: http://ope.ed.gov/security/index.asp.

THE COLLEGE ASSOCIATION

The College Association, Inc. is a not-for-profit educational corporation whose purpose is to operate, manage, and promote services to the entire campus community in conjunction with the goals of SUNY
Campus Ministry Office

The Campus Ministry Office, staffed by local volunteer clergy, strives to minister to the campus community (students, faculty, administration and staff) by creating a physical, personal and spiritual presence within a caring environment. It stimulates and fosters spiritual development and growth by tending to the emotional, physical and intellectual well being of each person within the campus community. The office provides opportunities for worship, outreach, mentoring and spiritual guidance in collaboration with other campus committees.

- Interfaith prayer services
- Connects with the local churches, temples, mosques and synagogues
- Advisors for faith-based student clubs
- Service projects (i.e., community service, Fall “Make a Difference Day,” Spring “Clean-Up, Fix-Up Day” and Blessing of Animals)
- Confidential spiritual guidance
- Educational programs
- Recreational and social events
- Provide resource contacts and/or assistance for those with critical needs.

A Spiritual Life Committee, composed of members of the campus community, serves as both an advisory board to the Campus Ministry Office and as the programming arm of the Office.

Churches

Canton students are welcomed to services at the many churches in the area. In Canton, there are various Christian churches of both Roman Catholic and Protestant denominations. In the nearby vicinity, there are Jewish synagogues and a mosque. For a list of individual denominations/churches, please see the Campus Ministry webpage, www.canton.edu/campus_ministry/.

Students Unable Because of Religious Beliefs to Attend Classes on Certain Days

(As required by Section 224-A New York Education Law)

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he is unable, because of his religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.

2. Any student in an institution of higher education who is unable, because of his religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.

3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which he may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

4. If classes, examinations, study or work requirements are held on Friday after four o’clock post meridian or on Saturday, similar or makeup classes, examinations, study or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study or work requirements held on other days.

5. In effectuating the provision of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section.

6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his rights under this section.

7. As used in this section, the term “institution of higher education” shall mean schools under the control of the board of trustees of the State University of New York or of the Board of Higher Education of the City of New York or any community college.

Family Educational Rights and Privacy Act of 1974

The Family Educational Rights and Privacy Act permits current or former students
to inspect and review their educational records. Students wishing to review their records should complete the request form available in the Registrar's Office identifying the record(s) they want to inspect. The Registrar will make arrangements for access within 45 days of the request and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, the student will be advised to whom the request should be addressed.

Students are also accorded a right to challenge the contents of their educational records to insure that the records are not inaccurate, misleading or in violation of rights to privacy or other rights. In order to request the College to amend a record that he or she believes is inaccurate or misleading, a student should complete the request form available in the Registrar's Office, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

The Act also provides the right to withhold the release of personal information except as provided by law and College policy. SUNY Canton may disclose those items designated as directory information from a student's education record unless directed otherwise by the student in writing. SUNY Canton has designated directory information to include: student's full name, local address and telephone number, campus e-mail address, home address and home telephone number, date of birth, major field of study, dates of attendance, degrees and awards received, date(s) of graduation, participation in officially recognized sports and activities, and the most recent previous educational institution attended.

Students have the right to restrict the disclosure of the items designated as directory information. If students exercise this right, such information will not be released without their written consent except as provided by law and College policy. Non-directory information such as grades, GPA and Student ID number are not released for any student, except directly to the student, without express written consent. Students wishing to restrict the release of the items identified as directory information must notify the Office of the Registrar in writing by the first Friday of the academic term in which the information is not to be disclosed. Such restriction will remain in effect unless rescinded in writing by the student. Students should be aware that restricting the release of directory information will prevent the College from providing enrollment and graduation information to prospective employers, insurance companies, and lenders without written authorization. It will also prevent inclusion in any news releases of the Dean's List or other honors, as well as graduation lists for publication.

A student may choose to waive their FERPA rights and allow academic information to be shared with certain people by completing a FERPA waiver form. This waiver allows SUNY Canton to share academic information from the student's education records with the persons listed on the completed form when they provide the student's SUNY Canton ID and the correct password. This form can be downloaded, completed and presented in person at the Registrar's Office, French Hall. Alternatively, the student may complete the form, have their signature notarized, and return the original, notarized form to the Registrar's Office.

An exception permitting disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit and personal health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or college agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Inquiries or complaints may be filed with the Family Educational Rights and Privacy Act Office, Department of Health, Education and Welfare, 400 Maryland Avenue, S.W., Washington, D.C. 20202-4605.

Copies of the Family Educational Rights and Privacy Act are available at the Office of Student Affairs, Faculty Office Building 604, and the Office of the Registrar, French Hall 105.


**Program Offerings**

Enrollment in other than registered or otherwise approved programs may jeopardize a student’s eligibility for certain student aid awards.

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### BACHELOR DEGREES

<table>
<thead>
<tr>
<th>Program</th>
<th>SUNY Code</th>
<th>HEGIS Code</th>
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</thead>
<tbody>
<tr>
<td>Alternative and Renewable Energy Systems, B.Tech.</td>
<td>1865</td>
<td>93</td>
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<tr>
<td>Applied Psychology, BS</td>
<td>1965</td>
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<tr>
<td>Civil &amp; Environmental Technology, B.Tech.</td>
<td>2235</td>
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<td>Criminal Investigation, B.Tech.</td>
<td>1359</td>
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<tr>
<td>Criminal Justice: Law Enforcement Leadership, B.Tech.</td>
<td>1911</td>
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<td>Dental Hygiene, B.Tech.</td>
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<td>Electrical Technology, B.Tech.</td>
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<td>0282</td>
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<tr>
<td>Funeral Services Administration, B.Tech.</td>
<td>1525</td>
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<tr>
<td>Graphic and Multimedia Design, B.Tech.</td>
<td>2026 0605</td>
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<tr>
<td>Health and Fitness Promotions, B.Tech.</td>
<td>2254</td>
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<td>Health Care Management, B.Tech.</td>
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<td>Homeland Security, B.Tech.</td>
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<td>Industrial Technology Management, B.Tech.</td>
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<td>Information Technology, B.Tech.</td>
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<tr>
<td>Legal Studies, B.Tech.</td>
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<td>Sports Management, BBA</td>
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### ASSOCIATE DEGREES

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<tbody>
<tr>
<td>Accounting, AAS</td>
<td>0630</td>
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<tr>
<td>Air Conditioning Engineering Technology, AAS</td>
<td>0444</td>
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<tr>
<td>Apprentice Training: Industrial Trades, AAS</td>
<td>0473</td>
<td>93</td>
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<tr>
<td>Automotive Technology, AAS</td>
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<td>Business Administration, AAS, AS</td>
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<td>Civil Engineering Technology, AAS</td>
<td>0517</td>
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<td>Computer Information Systems, AAS</td>
<td>0581</td>
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<tr>
<td>Construction Technology: Management, AAS</td>
<td>1162</td>
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<tr>
<td>Criminal Justice, AAS</td>
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<tr>
<td>Dental Hygiene, AAS</td>
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<td>Early Childhood, AS</td>
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<td>Electrical Engineering Technology, AAS</td>
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<td>General Technology, AAS</td>
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<td>Individual Studies, AAS</td>
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### LIBERAL ARTS AND SCIENCES

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<tbody>
<tr>
<td>General Studies, AAS, AS</td>
<td>0250</td>
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<tr>
<td>Mechanical Engineering Technology, AAS</td>
<td>0493</td>
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<tr>
<td>Nursing, AAS</td>
<td>0622</td>
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<tr>
<td>Physical Therapist Assistant, AAS</td>
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<tr>
<td>Veterinary Science Technology, AAS</td>
<td>0521</td>
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### CERTIFICATE PROGRAMS

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<tr>
<td>Air Conditioning Maintenance &amp; Repair</td>
<td>1387 97</td>
<td>93</td>
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<td>Criminal Justice Studies</td>
<td>1753 98</td>
<td>93</td>
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<tr>
<td>Electrical Construction &amp; Maintenance</td>
<td>0955 99</td>
<td>93</td>
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<tr>
<td>Health Science Career Studies</td>
<td>1774 100</td>
<td>93</td>
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<tr>
<td>Heating and Plumbing Service</td>
<td>1949 101</td>
<td>93</td>
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<tr>
<td>Powersports Performance &amp; Repairs</td>
<td>1632 102</td>
<td>93</td>
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<tr>
<td>Practical Nursing</td>
<td>0938 103</td>
<td>93</td>
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### ACADEMIC MINORS

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<tr>
<td>Accounting</td>
<td>0730 104</td>
<td>93</td>
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<tr>
<td>Applied Physics</td>
<td>2499 104</td>
<td>93</td>
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<td>Casino Management</td>
<td>0590 104</td>
<td>93</td>
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<tr>
<td>Corrections</td>
<td>1205 104</td>
<td>93</td>
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<tr>
<td>Economics</td>
<td>1205 105</td>
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<td>Environmental Technology</td>
<td>1205 105</td>
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<td>Finance</td>
<td>1205 105</td>
<td>93</td>
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<tr>
<td>Homeland Security</td>
<td>1205 105</td>
<td>93</td>
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<tr>
<td>Management Information Systems</td>
<td>1206 106</td>
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<td>Marketing Management</td>
<td>1206 106</td>
<td>93</td>
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<tr>
<td>Mathematics</td>
<td>1206 106</td>
<td>93</td>
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<tr>
<td>Women’s Studies</td>
<td>1206 106</td>
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<tr>
<td>Writing and Communications</td>
<td>1206 106</td>
<td>93</td>
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### OTHER PROGRAMS

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<tr>
<th>Program</th>
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<tbody>
<tr>
<td>Environmental Science &amp; Forestry, 2+2 w/SUNY ESF, Syracuse</td>
<td>0250/109</td>
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<tr>
<td>Forest Technology</td>
<td>0769 109</td>
<td>93</td>
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<td>Veterinary Services Management</td>
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<td>Mathematics</td>
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<td>93</td>
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<tr>
<td>Women’s Studies</td>
<td>5002 106</td>
<td>93</td>
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<tr>
<td>Veterinary Technology, Certificate</td>
<td>5310 107</td>
<td>93</td>
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### Programs Not Accepting Students

<table>
<thead>
<tr>
<th>Program</th>
<th>SUNY Code</th>
<th>HEGIS Code</th>
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<tbody>
<tr>
<td>Business Office Technology, Certificate</td>
<td>5306 5306</td>
<td>93</td>
</tr>
</tbody>
</table>
The Alternative and Renewable Energy Systems (ARES) curriculum introduces students to alternative methods of energy production and principles of energy efficiency. This academic program is appropriate for students seeking careers related to the production and use of alternative energy systems. Fundamental topics such as thermodynamics, heat transfer, fluid mechanics, electricity, power generation, energy conversion and storage enable students to assess wind, solar and geothermal energy systems. Along with the technical course content, students also learn to apply project and financial management skills and address regulatory requirements. Graduates may work in technical support, systems design, sales and marketing, new product development, green energy production, or eventually consulting. Other employment opportunities exist with engineering, architectural and construction firms, particularly those incorporating green building technology.

**Students In This Major:**

- Will be able to formulate solutions to the needs of the public for alternative and renewable sources of energy.
- Can be effective project planners and managers of alternative and renewable energy projects.
- Are prepared to respond to the dynamic needs of the alternative energy market.
- Are able to communicate in an organized manner through technical reports in written, oral, and other formats appropriate to alternative and renewable energy issues.
- Develop skills to function in and lead team-based efforts.

**Program Requirements:**

**Curriculum 1865**

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AREA 110</td>
<td>Intro. to Alternative Energy ..........3</td>
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<tr>
<td>ENGL 102</td>
<td>Oral &amp; Written Expression ..............3</td>
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<tr>
<td>MATH 123</td>
<td>Pre-Calculus Algebra ..................4</td>
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<tr>
<td>PHYS 121</td>
<td>College Physics I ....................3</td>
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<tr>
<td>PHYS 125</td>
<td>Physics Lab I ........................1</td>
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<td>GER elective (3,4,5,6,7,8,9) ..........3</td>
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<table>
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<th>Semester II</th>
<th>Credits</th>
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<tr>
<td>Program Elective (100/200) ..........3</td>
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<tr>
<td>MATH 161</td>
<td>Calculus I ................................4</td>
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<tr>
<td>SOET 116</td>
<td>Intro to Computer Drafting ............2</td>
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<tr>
<td>PHYS 122</td>
<td>College Physics II ...................3</td>
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<tr>
<td>PHYS 126</td>
<td>Physics Lab II ........................1</td>
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<td>GER Elective (3,4,5,6,7,8,9) ..........3</td>
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<td>Total ................................ 16</td>
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<table>
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<tr>
<th>Semester III</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 162</td>
<td>Calculus II ............................4</td>
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<td>ELEC 261</td>
<td>Electricity ............................4</td>
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<tr>
<td>MECH 241</td>
<td>Fluid Mechanics ........................3</td>
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<tr>
<td>MECH 242</td>
<td>Fluid Power Lab ........................1</td>
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<tr>
<td>CHEM 150</td>
<td>College Chemistry ......................4</td>
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<td>Total ................................ 16</td>
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**Semester IV**

| Program Elective (100/200) ..........3 |
| MATH 141    | Statistics ..............................3 |
|            | Program Elective (100/200) ..........3 |
|            | GER Electives (3,4,5,6,7,8,9) ..........3 |
|            | Total ................................ 16 |

**Semester V**

| AREA 320   | Experimentation & Meas. Lab I ........3 |
| MECH 342   | Thermodynamics ..........................3 |
| AREA Elective ..................................3 |
| Program Elective (300/400) ..........3 |
| GER Elective (3,4,5,6,7,8,9) ..........3 |
|            | Total ................................ 15 |

**Semester VI**

| AREA 370   | Experimentation & Meas. Lab II* ....3 |
|            | AREA Elective ...........................3 |
| MECH 343   | Heat Transfer ............................3 |
| BSAD 340   | Management Communications ............3 |
| SOET 370   | Engineering Project Analysis ..........3 |
|            | Total ................................ 15 |

**Semester VII**

| ELEC 215   | Electrical Energy Conversion ..........4 |
| AREA Elective ..................................3 |
| Program Elective (300/400) ..........3 |
| ACHP 401   | Building Automation Systems ..........3 |
| SOET 361   | Project Management .....................3 |
|            | Total ................................ 16 |

**Semester VIII**

| MECH 477   | Capstone Project ........................3 |
| AREA Elective ..................................3 |
| CONS 350   | Geographic Information Systems .......3 |
|            | GER Elective (3,4,5,6,7,8,9) ..........3 |
| Program Elective (300/400) ..........3 |
|            | Total ................................ 15 |

* Fulfills writing intensive requirement.

** Students prepared to take MATH 161 or higher may substitute a liberal arts course.

*** Students prepared to take MATH 161 or higher upon entry may choose PHYS131/132 University Physics I and II.

U/L = Upper Level Courses (300/400)

GER = General Education Requirement

NOTE: Alternative and Renewable Energy Systems students must meet seven of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/alt_energy/.
About This Major:

The B.S. in Applied Psychology addresses a growing need, both locally and nationwide for trained personnel to serve in human services related fields. Graduates will be prepared to work in a variety of human and social service settings – interviewing, problem solving with other professionals, and providing intervention services under professional supervision.

Students in this major will acquire knowledge and skills to work with individuals representing a diverse population. This includes children and families, the delinquent population, pregnant teenagers, homeless persons, individuals with mental disabilities and/or developmental disabilities, substance and alcohol abuse, as well as the growing elderly population. If you aspire to help others, a career in Applied Psychology can assist you in meeting this goal.

While traditional Bachelor of Arts programs in Psychology focus on research and broad psychological theory and concepts in a liberal arts context, SUNY Canton’s approach emphasizes many of those theories and knowledge, but also the skills and strategies that are applied in real world field experiences.

Career Ready:

Organizations are seeking individuals who have a strong background in Psychology applied to human services. While working with licensed and certified human service professionals, students will be prepared to:

- Help assess clients
- Assist in identifying and employing best practices in crisis interventions for clients
- Carry out programs developed in collaboration with supervising professionals
- Apply professional and legal standards in daily work assignments
- Use scientific research to help develop successful intervention programs for clients
- Employ knowledge of counseling and intervention strategies to collaboratively develop successful life programs for clients

Career Opportunities:

According to the U.S. Department of Labor, Bureau of Labor Statistics, employment in entry-level human services jobs is projected to grow faster than the average for all occupations, with a 54-percent increase in health care and social assistance areas.

- Human services agencies
- Social services caseworkers
- Mental disorder rehabilitation
- Residential habilitation manager
- Behavioral remediation

Admission Requirements:

- Refer to the table of high school course prerequisites for admission.
- Transfer students must have a minimum GPA of 2.5 OR a two-year degree.

Program Requirements:

Curriculum (1965)

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
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<tr>
<td>ABAP 135</td>
<td>Parenting Knowledge and Skills ..........3</td>
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<td>ABAP 245</td>
<td>Intro to Sci. &amp; Tech. of Behavior ..........3</td>
</tr>
<tr>
<td>BIOL 150</td>
<td>College Biology ................................4</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing OR</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Oral &amp; Written Expression ..........3</td>
</tr>
<tr>
<td>HUSV 201</td>
<td>Intro to Human Services* ..................3</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Statistics ..................................3</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology .................3</td>
</tr>
<tr>
<td>PSYC 220</td>
<td>Child Development OR</td>
</tr>
<tr>
<td>PSYC 225</td>
<td>Human Development ............................3</td>
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<tr>
<td>PSYC 275</td>
<td>Abnormal Psychology ..........................3</td>
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<tr>
<td>SOCI 101</td>
<td>Introduction to Sociology ....................3</td>
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<td>SSCI 370</td>
<td>Research Methods ............................3</td>
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<td>Humans (GER 7)</td>
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<td>Western Civil. Elective (GER 5) ..........3</td>
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<td>Math Elective (GER 1) ..................3-4</td>
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<tr>
<td>American History Elective (GER 4) ........3</td>
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<tr>
<td>Other World Civilization (GER 6) ....3</td>
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<tr>
<td>Art Elective (GER 8) ....................3-4</td>
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<td>3-6 General Electives ..........................3-4</td>
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<td>2-U/L General Elective** ....................6</td>
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Total Earned Required Credit Hours: 91-93

* Fulfill writing intensive
** For Group A

Choose Track A or Track B

Track A: Human Services Concentration

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 310</td>
<td>Counseling Theory &amp; Practice ............3</td>
</tr>
<tr>
<td>PSYC 315</td>
<td>Crisis Intervention Strategies ............3</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Social Psychology .........................3</td>
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<tr>
<td>PSYC 360</td>
<td>Organizational Psychology ................3</td>
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<tr>
<td>PSYC 410</td>
<td>Counseling Skills &amp; Process ...............3</td>
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<tr>
<td>HUSV 420</td>
<td>Seminar in Human Services ................3-6</td>
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<tr>
<td>HUSV 421</td>
<td>Practicum in Human Services ...............3-6</td>
</tr>
<tr>
<td>SOCI 181</td>
<td>Alcohol, Drugs and Society ...............3</td>
</tr>
<tr>
<td>SOCI 210</td>
<td>Sociology of the Family ....................3</td>
</tr>
<tr>
<td>SOCI 300</td>
<td>Race &amp; Ethnic Relations .....................3</td>
</tr>
<tr>
<td>SOCI 320</td>
<td>Sociology of Health ........................3</td>
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</table>

Requirement of 30 credits

Track B: Applied Behavior Analysis Concentration

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<tr>
<th>Required Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ABAP 310</td>
<td>Comp Animal Behavior Training ..........3</td>
</tr>
<tr>
<td>ABAP 345</td>
<td>App Science &amp; Tech. of Behavior ..........3</td>
</tr>
<tr>
<td>ABAP 365</td>
<td>Behavior Engineering: Rehab .............3</td>
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<tr>
<td>ABAP 375</td>
<td>Basic Autism ABA Methods ................3</td>
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<tr>
<td>ABAP 380</td>
<td>Intro Verbal Behavior Analysis &amp; Applications ................3</td>
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<tr>
<td>ABAP 385</td>
<td>Adv. Science &amp; Tech. of Behavior I ........3</td>
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<tr>
<td>ABAP 400</td>
<td>Seminar in ABA (may take up to 4 x’s) ..........3-12</td>
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<tr>
<td>ABAP 401</td>
<td>Practicum in ABA (may take up to 4 x’s) ..........3-12</td>
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<td>ABAP 415</td>
<td>Behavioral Thanatology &amp; Dignified Dying ..........3</td>
</tr>
<tr>
<td>ABAP 455</td>
<td>Performance Mgt &amp; Preventing Workplace Violence ..........3</td>
</tr>
<tr>
<td>ABAP 465</td>
<td>Class Mgt &amp; Preventing School Violence ..........3</td>
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<tr>
<td>ABAP 485</td>
<td>Adv. Science &amp; Tech. of Behavior II ........3</td>
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</table>

Requirement of 30 credits

U/L = Upper Level Courses (300/400)

GER = General Education Requirement

NOTE: Applied Psychology students must meet all of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/business/psyc/.

Disclaimer:

The completion of this baccalaureate degree will not qualify the holder to apply for, be hired for, or perform the duties related to, employment which involves the provision of services prohibited by New York State Education Law Article 153, Psychology, Paragraphs 7601 and 7601A. This prohibits graduates from SUNY Canton who hold a BS in Applied Psychology, like any other baccalaureate programs in Psychology, from performing tasks which only licensed providers are authorized to do under state law, such as providing counseling which is only to be done by licensed psychologists.
The Civil & Environmental Technology (C&E T) curriculum provides students with a Bachelor of Technology (B.Tech) degree that meets the demands of today's industry. The C&E T B.Tech program provides graduates with the background necessary to be competitive and successful with their career. Graduates will also have the opportunity to pursue graduate study. Students gain preparation in general engineering technology concepts as well as specialized training in civil and environmental technology. This four-year curriculum provides flexibility with program electives for students to pursue areas of specific interest.

Hands-on experience and training prepare graduates for challenges encountered in the construction and environmental industry, including analysis, design, project and resource management, structures, geotechnology, environmental concerns, and common laboratory testing of materials.

**Student Learning Outcomes:**
- Surveyor
- Environmental Technologist
- QC Engineering Technologist
- Groundwater Engineer
- Municipal Water/Wastewater Treatment Plant Operator
- Geotechnical Engineer
- Construction Project Estimator
- Construction Inspectors
- Residential & Commercial/General Contractors

**Career Outlook:**
- Employment opportunities for civil and environmental engineering technicians are expected to increase by 78% and 10%, through 2016 due to the growth and repair of infrastructure (highways, bridges, dams, etc).
- Employment in environmental technology is expanding because of the increased awareness of environmental issues, and more stringent regulations.

**Admission Requirements:**
- Freshmen will meet all general admission requirements to SUNY Canton.
- Students should have completed four years regents level high school math and be ready for Pre-Calculus (MATH 123) and College Physics I (PHYS 121/125). Students not meeting these criteria will be required to take prerequisite math courses.
- Students with a two-year college degree in related program area will be evaluated and awarded maximum credit. They must have a minimum grade point average of 2.75. Other transfer students will be evaluated on case-by-case basis.

**Program Requirements:**

(Curriculum 2235)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
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<tbody>
<tr>
<td>First Semester</td>
<td>ENGS 101</td>
<td>Intro to Engineering</td>
<td>2</td>
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<tr>
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<td>SOET 116</td>
<td>Intro to Computer Drafting</td>
<td>2</td>
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<tr>
<td></td>
<td>MATH 123</td>
<td>PreCalculus</td>
<td>4</td>
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<tr>
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<td>PHYS 121</td>
<td>College Physics I</td>
<td>3</td>
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<td>ENGL 102</td>
<td>Oral and Written Expression</td>
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**Second Semester**

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CONS 172</td>
<td>Technical Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGS 102</td>
<td>Programming for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>MECH 128</td>
<td>Electromechanics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 161</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>PHYS 122</td>
<td>College Physics II</td>
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<tr>
<td>PHYS 126</td>
<td>College Physics II Lab</td>
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**Third Semester**

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<tr>
<td>CONS 101</td>
<td>Elementary Surveying</td>
<td>4</td>
</tr>
<tr>
<td>CONS 272</td>
<td>Strength of Materials for Tech</td>
<td>3</td>
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<tr>
<td>CHEM 150</td>
<td>College Chemistry and Lab</td>
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<tr>
<td>MATH 162</td>
<td>Calculus II</td>
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**Fourth Semester**

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<th>Course Code</th>
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<tbody>
<tr>
<td>CONS 322</td>
<td>Hydraulics</td>
<td>4</td>
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<tr>
<td>CONS 220</td>
<td>Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>CONS 336</td>
<td>Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CONS 285</td>
<td>Engineering Geology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 364</td>
<td>Differential Equations</td>
<td>3</td>
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**Fifth Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CONS 203</td>
<td>Advanced Surveying</td>
<td>4</td>
</tr>
<tr>
<td>CONS 280</td>
<td>Civil Engineering Materials</td>
<td>2</td>
</tr>
<tr>
<td>CONS 385</td>
<td>Hydrology and Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>CONS 386</td>
<td>Water Quality</td>
<td>4</td>
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**Sixth Semester**

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<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CONS 387</td>
<td>Water and Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>SOET 361</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>SOET 370</td>
<td>Engineering Project Analysis</td>
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<tr>
<td>Program Electives</td>
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**Seventh Semester**

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<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CONS 314</td>
<td>Soil Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>SOET 377</td>
<td>Engineering Technology Issues</td>
<td>1</td>
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<td>GER 3, 4, 5, 6, 7, 8 or 9</td>
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<td>9</td>
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<td>Program Elective</td>
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**Eighth Semester**

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<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CONS 477</td>
<td>Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>SOET 348</td>
<td>Engineering Safety</td>
<td>1</td>
</tr>
<tr>
<td>GER 3, 4, 5, 6, 7, 8 or 9</td>
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<td>6</td>
</tr>
<tr>
<td>Program Elective</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

* Fulfills writing intensive requirement.

** Must be from approved list of program electives for the CET program or permission of program coordinator. One program elective must be in Structural Steel Design (CONS 324), Reinforced Concrete Design (CONS 304), or Structural Engineering Design (CONS 375).

**GER = General Education Requirement**

**NOTE:** Civil & Environmental Technology students must meet eight of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/cet/.
The Bachelor of Technology in Criminal Investigation provides a unique alternative to traditional criminal justice programs. This degree focuses on developing the necessary knowledge and skills required in criminal investigations. Students will complete an internship with a major law enforcement agency or a senior thesis.

**Students In This Major:**
- Receive advanced training in criminal investigation.
- Learn to analyze forensic evidence, preserve crime scenes, collect and process evidence.
- Spend an entire semester with selected criminal investigation units or complete five upper level criminal justice courses.

**Career Opportunities:**
- Criminal investigation officer for police departments
- Federal law enforcement agencies
- Private investigation agencies
- Military police

**Admission Requirements:**
Admission to the Bachelor of Technology in Criminal Investigation is competitive.
- Students must be prepared to take Survey of Math (MATH 111) or College Algebra (MATH 121)
- Students must have a high school average of at least 80.
- Students must be prepared to take ENGL 101 or ENGL 102.
- Transfer students must have a minimum cumulative grade point average of 2.5.

**Recommended preparatory courses or their equivalencies are:**
- JUST 101 Introduction to Criminal Justice
- JUST 110 Criminal Law
- JUST 111 Criminal Procedure
- JUST 203 Criminal Investigations
- JUST 209 Law Enforcement Communications
- JUST 210 Introduction to Forensic Investigation
- MATH 111 Survey of Mathematics
- MATH 121 College Algebra

**Student priority will go to SUNY Canton Criminal Justice students. A minimum grade point average of 2.5 is required.**

**Program Requirements: (Curriculum 1359)**

**Semester I**
- JUST 101 Intro. to Criminal Justice ..........3
- ENGL 101 Expository Writing OR
- ENGL 102 Oral and Written Expression.........3
- MATH 111 Survey of Mathematics .................3
- PSYC 101 Introductory Psychology..............3
- CITA 110 Intro. to Information Technology.....3
- **15-16**

**Semester II**
- JUST 105 Correctional Philosophy ...............3
- JUST 110 Criminal Law ..........................3
- SOCI 101 Introduction to Sociology..........3
- Natural Science w/Lab (GER 2) ... 3-4
- Humanities Elective (GER 7) .................3
- **15-16**

**Semester III**
- JUST 111 Criminal Procedure ..................3
- JUST 201 Critical Issues in Crim. Justice* ....3
- JUST 209 Law Enforc. Communications........3
- JUST 210 Intro. to Forensic Invest.............3
- American History Elective (GER 4) ..........3
- **15**

**Semester IV**
- JUST 203 Criminal Investigations...............3
- JUST 207 Police Services.......................3
- General Electives ..............................9
- **15**

**Semester V**
- JUST 300 Forensic Photography ...............3
- JUST 303 Interviews and Interrogations ........3
- U/L Liberal Arts Elective .....................3
- Lib. Arts Elective (GER 5,6,8,9) ............3
- General Elective ..............................3
- **15**

**Semester VI**
- JUST 301 Latent Prints and Impressions.........3
- JUST 319 Professional Ethics..................3
- JUST 310 Causes of Crime OR
- JUST 326 Threats to Homeland Security OR
- JUST 350 Family Victimization ...............3
- U/L Liberal Arts Elective .....................3
- General Elective ..............................3
- **15**

**Semester VII**
- JUST 406 Crime Scene Investigation ..........3
- JUST 408 The Investigation of Death ..........3
- JUST 429 Intro. to Culminating Experience .....1
- U/L Crim. Investigative Elective ...............3
- General Electives ..............................6
- **16**

**Semester VIII**
- JUST 430 Culminating Experience in CJ OR
- (5) U/L JUST Electives .........................15
- **15**

Students in the Criminal Investigation, B.Tech. program are required to earn a C or better in all JUST courses taken for credit in the program.

* Fulfills writing intensive requirement.

U/L = Upper Level Courses (300/400)

GER = General Education Requirement

**NOTE:** Criminal Investigation students must meet seven of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/sci_health/ci/.

The Law Enforcement Leadership program blends the disciplines of criminal justice, law enforcement and management. It provides the foundation to allow graduates to seek entry positions in law enforcement or to seek promotion into supervisory and management positions. Most graduates of this program will seek employment with law enforcement agencies, other governmental agencies or in the private sector. Since the program provides ample opportunities for electives, students may choose electives that may help them to develop or hone management skills, or acquire knowledge and skill in law enforcement techniques.

Students In This Major:
- Develop leadership and managerial skills needed to succeed in contemporary law enforcement agencies
- Analyze critical issues in law enforcement
- Study under the tutelage of experienced criminal justice professionals
- Are exposed to current issues and state-of-the-art technology
- Culminate their education with a semester-long internship or additional course work
- Have the opportunity to attend the David Sullivan-St. Lawrence County Law Enforcement Academy as an internship site.
- Can choose to take all classes for degree online!

Career Opportunities:
- Law enforcement officers at local, state and federal level
- Law enforcement management for municipal, state, and federal agencies
- Probation and Parole
- Security consultants
- College and university campuses

Career Outlook:
- Jobs for graduates in law enforcement are projected to increase by 7% through 2020 according to the U.S. Department of Labor Bureau of Labor Statistics.
- Higher education requirements for entry level employees of law enforcement agencies at all levels are becoming more common.

Admission Requirements:
- Students must be prepared to take College level math (GER1).
- Students must be prepared to take Expository Writing (ENGL 101) or Oral and Written Expression (ENGL102).
- Transfer students must meet re-registration requirements to be considered for admission.

Program Requirements
(Curriculum 1911)

Semester I
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 101 Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>BSAD 100 Intro. to Business</td>
<td></td>
</tr>
<tr>
<td>ENGL 101 Expository Writing OR</td>
<td></td>
</tr>
<tr>
<td>ENGL 102 Oral and Written Expression</td>
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</tr>
<tr>
<td>MATH 111 Survey of Mathematics</td>
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</tr>
<tr>
<td>PSYC 101 Introduction to Psychology</td>
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<td><strong>Total</strong></td>
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Semester II
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 110 Criminal Law</td>
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<tr>
<td>JUST 111 Criminal Procedure</td>
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</tr>
<tr>
<td>SOCI 101 Introduction to Sociology</td>
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</tr>
<tr>
<td>Amer. History Elective (GER 4)</td>
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<tr>
<td>Humanities Elective (GER 7)</td>
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Semester III
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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CITA 110 Intro. to Information Technology</td>
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<tr>
<td>MATH 141 Statistics</td>
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<tr>
<td>Natural Sci. w/Lab Elect. (GER 2)</td>
<td>3-4</td>
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<tr>
<td>Lib. Arts Elective (GER 5,6,8,9)</td>
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<tr>
<td>General Elective</td>
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<td><strong>Total</strong></td>
<td><strong>15-16</strong></td>
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Semester IV
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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 201 Critical Issues in Criminal Justice*</td>
<td>3</td>
</tr>
<tr>
<td>JUST 207 Police Services</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
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ECON 101 Macroeconomics OR
ECON 103 Microeconomics OR
POLS 101 Intro to Govt & Politics...........3
Program Elective.........................3
General Elective......................3

Semester V
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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 320 Managing Law Enforce. Training</td>
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<tr>
<td>JUST 333 Managing Patrol Function</td>
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<tr>
<td>JUST 344 Civil Liability Issues for CJ Admin.</td>
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<tr>
<td>BSAD 301 Principles of Management</td>
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Semester VI
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<tr>
<th>Course</th>
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<tr>
<td>JUST 314 Ethics in Criminal Justice OR</td>
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<tr>
<td>BSAD 319 Professional Ethics</td>
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<td>U/L BSAD or JUST Elective</td>
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Semester VII
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<tbody>
<tr>
<td>JUST 429 Intro to Culminating Experience</td>
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<tr>
<td>JUST 449 Current Issues in Law Enforce.</td>
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<tr>
<td>JUST 335 CJ Agency Management</td>
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<tr>
<td>BSAD 375 Leadership &amp; Decision Making</td>
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<td>Liberal Arts Elective (GER 5,6,8,9)</td>
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Semester VIII
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>JUST 430 Culminating Exper. in CJ AND/OR</td>
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<tr>
<td>U/L BSAD or JUST Electives</td>
<td><strong>3-15</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

* Fulfills the writing intensive requirement.
** Only required for students intending to take JUST 430 Culminating Experience in Criminal Justice.

U/L = Upper Level course (300/400)
GER = General Education Requirement

NOTE: Criminal Justice: Law Enforcement Leadership students must meet seven of the ten General Education Requirements and have 30 total General Education credits; and successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/sci_health/lelm/.

58
The Bachelor of Technology in Dental Hygiene constitutes the final two years of a 2+2 articulation program in which the first two years entail completing an associate degree in Dental Hygiene from an accredited program. This degree provides graduates expanded career and graduate education opportunities in: administration, education, management, public health, sales, marketing, and research.

**Students in this major:**
- Have expanded career and graduate education opportunities.
- Will complete a one semester internship.

**Career opportunities:**
- Administration
- Education
- Management
- Pharmaceutical Sales
- Public Health
- Sales & Marketing
- Research

**Admission requirements:**
- Students must be prepared to take College Algebra (MATH 121)
- Must have completed an associate degree in Dental Hygiene from an accredited program.

**Program requirements:**

*(Curriculum 1148)*

<table>
<thead>
<tr>
<th>Semester V</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DHYG 350</td>
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<tr>
<td>HSMB 304</td>
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<td>MATH 111</td>
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<td>Foreign Language or ASL (GER 9)</td>
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<table>
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<tr>
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<tr>
<td>DHYG 340</td>
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<tr>
<td>HSMB 302</td>
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<td>EDUC 300</td>
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<td>MATH 141</td>
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</table>

* Fulfills writing intensive requirement.
U/L = Upper Level Courses (300/400)
GER = General Education Requirement

**Semester VII**
- DHYG 360 Dental Hygiene Teaching Methodology ................. 4
- DHYG 370 Research Methods ...................................... 3
- DHYG 385 Orientation to Internship ............................. 1
- HSMB 330 Grant Writing Strategies ................................ 2
- ENGL 301 Professional Writing & Communication ............. 3
- U/L Liberal Arts Elective (GER 4, 5, 6, 7, or 8) ............. 3
  16

**Semester VIII**
- DHYG 390 Dental Hygiene Internship ............................ 6
- HSMB 410 Senior Seminar ........................................ 3
- U/L Liberal Arts Electives (GER 4, 5, 6, 7, or 8) ............. 6
  15

* Fulfills writing intensive requirement.
U/L = Upper Level Courses (300/400)
GER = General Education Requirement

**Note:** Dental Hygiene students must meet seven out of ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/sci_health/dhyg/.

---

59
The Bachelor of Electrical Technology (B. Tech) program is designed to prepare graduates to fulfill the rapidly changing technological demands in electrical power, electronics, industrial controls, and telecommunications. The program provides strength in mathematics, social sciences and humanities, and technical content that focus on the application of science and engineering related to product improvement, design, manufacturing, construction, and operational functions.

**Students In This Major:**
- Will demonstrate the mastery of the knowledge, techniques, skills, and modern tools in Electrical Technology.
- Will have the ability to apply current knowledge and adapt to emerging applications of mathematics, science, and engineering technology.
- Develop an ability to identify, design, analyze and solve technical problems.
- Develop an ability to communicate effectively.
- Learn to recognize the need for, and an ability to engage in lifelong learning.
- Learn the importance of professional, ethical and social responsibilities.
- Will demonstrate respect for diversity and knowledge of contemporary professional, societal and global issues.
- Will have a commitment to quality, timeliness, and continuous improvement.
- Have the opportunity to receive minor in Mathematics.

**Career Opportunities:**
- Electronics Technologist
- Biomedical Engineering Technologist
- Sale Engineering Technologist
- Service Engineering Technologist
- Systems Test Engineering Technologist
- Product Engineering Technologist
- Software Engineering Technologist
- Documentation Engineering Technologist
- Quality Control Engineering Technologist
- Applications Engineering Technologist
- R&D Technologist
- Engineering Assistant
- Graduate School

**Admission Requirements**
- Candidates must have a minimum of a high school diploma or GED.
- Students must be prepared to take Pre-Calculus Algebra (MATH 123). If a student does not meet the criteria, he/she will be required to take prerequisites in math. All students with high school diploma or GED will be required to take a placement examination to determine his/her standing.
- Students who graduate with a two year college degree in a program related area will be evaluated and awarded maximum credit to enable him/her to complete the (B. Tech) degree in two years. Transfer students from community colleges, universities or other institutions of higher learning with some coursework completed will be evaluated on case-by-case basis. Minimum grades of “C” for transfer provided the content is comparable to that offered at SUNY Canton.

**Program Requirements:**
*(Curriculum 2234)*

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<tr>
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<td>SOET 116</td>
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<td>PHYS 126</td>
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**Semester III**
- ELEC 102 Electric Circuits 2.................3
- ELEC 129 Electric Circuits 2 Laboratory.....1
- ELEC 141 Industrial Controls...................2
- ELEC 165 Digital Fundamentals & Systems.....3
- ELEC 166 Digital Systems Lab..................1
- MATH 162 Calculus II...........................4
- Elective (GER 3,4,5,6,7,8,9)...............17

**Semester IV**
- ELEC 213 Microprocessors *....................3
- ELEC 215 Electrical Energy Conversion........4
- ELEC 225 Telecommunications....................3
- ELEC 231 Electronic Circuits....................4
- ELEC 243 Automated Control Systems.........16

**Semester V**
- ELEC 332 Industrial Power Electronics.........3
- ELEC 343 Advanced Circuit Analysis............3
- SOET 377 Engineering Technology Issues.......1
- MATH 364 Differential Equations..............3
- General Elective...............................3
- Elective (GER 3,4,5,6,7,8,9)...............16

**Semester VI**
- ELEC 380 LAN/WAN Technology...................3
- ELEC 383 Power Transmission and Distrib. ....3
- ELEC 385 Electronic Communications I.........3
- SOET 348 Engineering Safety....................1
- Program Elective...............................3
- Elective (GER 3,4,5,6,7,8,9)...............16

**Semester VII**
- ELEC 386 Electronic Communications II........3
- ELEC 416 Microelectronics Circuit Design.....3
- SOET 361 Project Management...................3
- Program Elective...............................3
- Elective (GER 3,4,5,6,7,8,9)...............15

**Semester VIII**
- ELEC 477 Capstone Project.....................3
- ELEC 436 Biomedical Electronics..............3
- SOET 370 Engineering Project Analysis.........3
- Program Elective...............................6

* Fulfills writing intensive requirement
UL = Upper Level Courses (300/400)
GER = General Education Requirement

Program Electives: Must be from approved list of program electives for the Electrical Technology program or permission of program coordinator.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/elec/.

—This is a new technology program; when it graduates its first class, application will be submitted to the Accreditation Board for Engineering and Technology (ABET) for accreditation of this program as an engineering technology program.
CAREER OPPORTUNITIES:
• County and city emergency and disaster management agencies
• Regional and state emergency management and homeland security departments and agencies
• Federal emergency management and homeland security agencies
• Emergency management departments within many Federal agencies
• Hospitals and public health agencies
• Private corporations and businesses, including nuclear power plants
• Criminal justice, firefighting and emergency service agencies

ADMISSION REQUIREMENTS:
• Students must be prepared to take Survey of Math (Math 111) or College Algebra (Math 121)
• Students must be prepared to take Expository Writing (ENGL 101)
• Transfer students must meet re-registration requirements to be considered for admission

PROGRAM REQUIREMENTS:
(Curriculum 1864)

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CITA 110</td>
<td>Intro. to Information Technology</td>
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<tr>
<td>ENGL 101</td>
<td>Expository Writing</td>
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<tr>
<td>MATH 111</td>
<td>Survey of Math OR</td>
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<tr>
<td>MATH 121</td>
<td>College Algebra</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introductory Psychology</td>
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<td>American History (GER 4)</td>
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<table>
<thead>
<tr>
<th>Semester II</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 101</td>
<td>Foundations of Financial Accounting OR</td>
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<tr>
<td>ACCT 104</td>
<td>Survey of Accounting</td>
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<td>MATH 141</td>
<td>Statistics</td>
</tr>
<tr>
<td>POLS 101</td>
<td>Intro. Gov’t and Politics OR</td>
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<td>POLS 105</td>
<td>Nat’l Gov’t and Politics</td>
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<td>Foreign Language (GER 9)</td>
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<td>Arts Elective (GER 8)</td>
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Semester III
EADM 201  Fundamentals of EADM | 3 |
EADM 205  Risk & Hazard Impact Studies | 3 |
SOCI 101  Introduction to Sociology | 3 |
Other World Civil Elect. (GER 6) | 3 |
General Elective | 3 |

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<tr>
<th>Semester IV</th>
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<tr>
<td>EADM 220</td>
<td>Disaster Mgmt. &amp; Preparedness</td>
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<tr>
<td>EADM 222</td>
<td>Comm.: Preparedness &amp; Defense</td>
</tr>
<tr>
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<td>Humanities Elective (GER 7)</td>
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<tr>
<td></td>
<td>Science Elective (GER 2)</td>
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<td>West. Civilization Elect. (GER 5)</td>
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<tr>
<th>Semester V</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSAD 305</td>
<td>Public Budgeting &amp; Fiscal Mgmt.</td>
</tr>
<tr>
<td>BSAD 301</td>
<td>Principles of Management</td>
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<tr>
<td>BSAD 319</td>
<td>Professional Ethics</td>
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<tr>
<td>U/L Program Elective</td>
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<tr>
<td>U/L Liberal Arts Elective</td>
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<tr>
<th>Semester VI</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EADM 307</td>
<td>Legal Issues in E&amp;D</td>
</tr>
<tr>
<td>BSAD 310</td>
<td>Human Resource Management</td>
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<td>BSAD 340</td>
<td>Management Communications</td>
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<td>U/L General Elective</td>
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<td>U/L Program Elective</td>
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<table>
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<tr>
<th>Semester VII</th>
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<tbody>
<tr>
<td>BSAD 375</td>
<td>Leadership and Change</td>
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<tr>
<td>EADM 400</td>
<td>Incident Command: System Coord. &amp; Assessment</td>
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<tr>
<td>EADM 430</td>
<td>Simulated Disaster Training</td>
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<td>U/L Liberal Elective</td>
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<td>U/L Program Elective</td>
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<tr>
<th>Semester VIII</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EADM 435</td>
<td>Disaster Simulation</td>
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<tr>
<td>EADM 480</td>
<td>Internship in EADM</td>
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<tr>
<td>EADM 485</td>
<td>Senior Project AND/OR</td>
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<tr>
<td>U/L Program Electives</td>
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</tbody>
</table>

Upper Level Program Electives: All upper level EADM, JUST, LELM, HSMB, CONS, ECON, BSAD, SSCI, CITA courses, and/or other upper-level courses with permission of instructor.
* Fulfills writing intensive requirement.
U/L = Upper Level Courses (300/400)
GER = General Education Requirement

NOTE: Emergency Management students must meet all ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/business/eadm/.
As our society moves to a more service-oriented world, the area of financial services becomes critical to our present and future economic situation. The movement towards blurring of the worlds of business, finance, stock brokerage, bond trades, insurance, banking and retirement planning has produced a tremendous growth industry. SUNY Canton’s Finance program puts our graduates on the leading edge of this service industry.

**STUDENTS IN THIS MAJOR:**
- Receive a solid fundamental education in the areas of business, finance, accounting, and liberal arts.
- Train in many operational areas of financial services.
- Have the opportunity to spend an entire semester in the financial industry.
- Prepare for graduate-level education.

**CAREER OPPORTUNITIES:**
The employment opportunities cover a broad range of options, including major employers and also entrepreneurship. Graduates are working in:
- Banking
- Insurance
- Credit Unions
- Brokerage Firms
- Financial Planning Firms
- Colleges and Universities

**EMPLOYERS OF SUNY CANTON GRADUATES:**
- Community Bank
- SEACOMM Federal Credit Union
- SUNY Canton

**PROGRAM REQUIREMENTS:**

(***Curriculum 0282***)

<table>
<thead>
<tr>
<th>Semester I</th>
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<tbody>
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<td>ECON 101</td>
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<tr>
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</tr>
<tr>
<td>CITA 110</td>
<td>3</td>
</tr>
<tr>
<td>Intro. to Information Technology</td>
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<tr>
<td>ENGL 101</td>
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</tr>
<tr>
<td>Expository Writing</td>
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<td>Mathematics Elective (GER 1)</td>
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<tr>
<td>Semester II</td>
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<td>ACCT 102</td>
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<td>Foundations of Managerial Accounting</td>
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<td>ECON 103</td>
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<tr>
<td>Microeconomics</td>
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<td>MATH 141</td>
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<td>Statistics</td>
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<td>BSAD 200</td>
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<tr>
<td>Business Communications</td>
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<tr>
<td>Humanities Elective (GER 7)</td>
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</table>

| Semester III    | 15 |
| FSMA 210        | 3   |
| Introduction to Finance                                |
| BSAD 120        | 3   |
| Principles of Banking                                  |
| BSAD 201        | 3   |
| Business Law I                                         |
| Arts Elective (GER 8)                                   |
| General Elective                                       |

| Semester IV     | 15 |
| BSAD 202        | 3   |
| Business Law II                                       |
| FSMA 312        | 3   |
| Financial Management                                   |
| Program Elective                                       |
| Natural Sciences Elective (GER 2)                      |
| American History Elective (GER 4)                      |

| Semester V       | 3   |
| BSAD 301         |     |
| Principles of Management                               |

**ADMISSION REQUIREMENTS:**
- Students must be prepared to take Expository Writing (ENGL 101).
- Transfer students must meet re-registration requirements to be considered for admission.

**ADMISSION REQUIREMENTS:**
- Students must be prepared to take Expository Writing (ENGL 101).
- Transfer students must meet re-registration requirements to be considered for admission.

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| Semester III    | 15 |
| FSMA 210        | 3   |
| Introduction to Finance                                |
| BSAD 120        | 3   |
| Principles of Banking                                  |
| BSAD 201        | 3   |
| Business Law I                                         |
| Arts Elective (GER 8)                                   |
| General Elective                                       |

| Semester IV     | 15 |
| BSAD 202        | 3   |
| Business Law II                                       |
| FSMA 312        | 3   |
| Financial Management                                   |
| Program Elective                                       |
| Natural Sciences Elective (GER 2)                      |
| American History Elective (GER 4)                      |

| Semester V       | 3   |
| BSAD 301         |     |
| Principles of Management                               |

**ADMISSION REQUIREMENTS:**
- Students must be prepared to take Expository Writing (ENGL 101).
- Transfer students must meet re-registration requirements to be considered for admission.

**PROGRAM REQUIREMENTS:**

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| FSMA 210        | 3   |
| Introduction to Finance                                |
| BSAD 120        | 3   |
| Principles of Banking                                  |
| BSAD 201        | 3   |
| Business Law I                                         |
| Arts Elective (GER 8)                                   |
| General Elective                                       |

| Semester IV     | 15 |
| BSAD 202        | 3   |
| Business Law II                                       |
| FSMA 312        | 3   |
| Financial Management                                   |
| Program Elective                                       |
| Natural Sciences Elective (GER 2)                      |
| American History Elective (GER 4)                      |

| Semester V       | 3   |
| BSAD 301         |     |
| Principles of Management                               |
The Bachelor of Technology degree in Funeral Services Administration is open to new students, transfer students and Funeral Directors who have passed the National Board Examination and are licensed. This is the only bachelor’s degree in Funeral Services Administration in New York State and one of only a few in the country.

**STUDENTS IN THIS MAJOR:**
- Participate in classes, practicums, and internships that provide theoretical education as well as practical training and experience in all phases of the Funeral Service profession including embalming and funeral directing.
- Are eligible to take the National Board Examination required for licensure.
- Experience a learning environment that is rigorous yet supportive and flexible.
- Can concentrate elective courses in their field of interest such as business, coroner preparation, or Human Services.
- Will be involved in online and on campus courses.

**ACCREDITATION:**
The Funeral Services Administration program at the State University of New York (SUNY) at Canton, is currently in candidacy status with the: American Board of Funeral Service Education (ABFSE), 3414 Ashland Avenue, St. Joseph, Missouri 64506; (816) 233-3747; www.abfse.org

**CAREER OPPORTUNITIES:**
- Funeral Director
- Embalmer
- Pre-need Funeral Counselor in a funeral home or with specialized pre-med companies
- Funeral Service After Care Specialist
- Cemetery Administration
- Allied Professions such as cemeteries, morgués, morgues, morgues, coroners, and medical examiners offices, organ and tissue banks, teaching funeral service, and funeral supply sales such as caskets, vaults, embalming fluids, computer software companies.

**LICENSED FUNERAL DIRECTOR PROGRAM:**
Licensed Funeral directors who have already graduated and passed the National Board Examination are eligible to obtain credit for Funeral Services Administration courses through challenge exams or portfolio development. The State University allows up to 30 credits in these types of experiential learning.

**ADMISSION REQUIREMENTS:**
- Students must be eligible for enrollment in Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102).
- Students must be eligible for enrollment in Survey of Mathematics (MATH 111) or College Algebra (MATH 121).
- Transfer students must have a minimum 2.0 GPA.

**PROGRAM REQUIREMENTS**
*(Curriculum 0152)*

**Semester I**
- **BIOL 101** Intro to Biology ..........................4
- **PSYC 101** Intro to Psychology ........................3
- **ENGL 102** Oral and Written Expression ..........3
- **CTTA 110** Intro to Information Technology .......3
- **BSAD 100** Intro to Business ..........................3

**Semester II**
- **BSAD 200** Business Communications ..........3
- **MATH 111** Survey of Math OR **MATH 141** Statistics ...........................................3
- English/Humanities Elect (GER 7) ........................3
- General Elective ........................................3
- Social Science Elective ................................3

**Semester III**
- **ACCT 101** Foundations of Financial Acct. .......4
- **SSCI 315** Death, Dying & Bereavement ..........3
- **FSAD 111** Study of Funerals: Past and Present ..3
- Liberal Arts Elective (GER 4,5,6,8) .................3
- General Elective ........................................3

**Semester IV**
- **BIOL 207** Human Anatomy ........................4
- **FSAD 214** Funeral Home Management I ..........3
- **HLTH 105** Pathology ................................3
- **FSAD 129** Clinical Practice .........................2
- Liberal Arts Elective (GER 4,5,6,8) .................3
- General Elective ........................................3

**Semester V**
- **FSAD 322** Funeral Home Management II .........3
- **FSAD 121** Analytical Embalming Techniques ....4
- **FSAD 225** Professional Funeral Practice ..........3
- **FSAD 308** Intro to Internship ........................1
- U/L General Elective ..................................3

**Semester VI**
- **FSAD 211** Embalming & Asep. Tech. ..............4
- **FSAD 307** Human Response to Death ..........4
- **FSAD 401** Funeral Service Law .................3
- **FSAD 308** Intro to Internship ........................1
- U/L General Elective ..................................3

**Semester VII**
- **FSAD 440** Internship ................................8
- **FSAD 420** Current Issues in Funeral Service * .3
- U/L Management, Social Science or Health Elective ..........3

**Semester VIII**
- **FSAD 323** Restorative Art. ..........................4
- **FSAD 321** Advanced Embalming ................4
- **FSAD 325** Mortuary Compliance ................2
- **FSAD 406** Bereavement Counseling ............3

* Fulfills writing intensive requirement.

**U/L = Upper Level Courses (300/400)**

**GER = General Education Requirement**

"C" or better is required in FSAD121, FSAD211 and students must take the National Board Examination to pass FSAD325.

**NOTE:** Funeral Services Administration students must meet seven of the ten General Education Requirements and 30 total liberal arts credits, and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/business/fsad/.

**CAUTION:** Students applying for admission to Funeral Services Administration should contact their respective state boards of funeral service regarding that state board’s approval of this particular program of instruction.
The Bachelor of Technology in Graphic and Multimedia Design (GMMD) is a fast-paced technology and culture-driven major for creative students interested in pursuing a four-year degree. Students can also expect to learn about mobile and social media, and other new forms of communication.

**STUDENTS IN THIS MAJOR:**
- Create and design original works using graphics, video, photography, sound, and animation.
- Develop communications skills, management skills, and analytical skills.
- Learn design theory and interact with the latest multimedia authoring software.
- Design and launch their own multimedia project individually, as part of a team, and/or complete an internship within the media field.

**CAREER OPPORTUNITIES:**
- Graphic designer
- Web designer
- Advertising specialist
- Public Relations specialist
- Video/Sound/or Video Game designer
- Journalist

**POTENTIAL EMPLOYERS**
- Web Design Firms
- Advertising Firms
- Government
- Education
- News Agencies
- Other (design departments)

### ADMISSION REQUIREMENTS:
- Prepared to take Expository Writing (ENGL 101)
  - NYS English Regents score ≥ 75; or
  - Verbal SAT score ≥ 420; or
  - Reading and Writing ACT scores ≥ 17; or
  - Transfer student who has already passed a college level English course.
- Transfer students from other institutions and majors may have to complete certain bridge courses that could extend their graduation date.

### PROGRAM REQUIREMENTS:
*(Curriculum 2026)*

| Semester I | Credits |  |  |
|------------|---------|----------|
| GMMD 101  | Intro to Media Studies | 3 |
| ARTS 101  | Intro to Drawing | 3 |
| CITA 152  | Computer Logic | 3 |
| ENGL 101  | Expository Writing | 3 |
| MATH 111  | Survey of Mathematics  | 3 |
| OR        | MATH 121  | College Algebra | 4 |
|           |  |  | **15-16** |

| Semester II | Credits |  |  |
|-------------|---------|----------|
| GMMD 102  | Intro to Design | 3 |
| CITA 180  | Intro to Programming | 3 |
| ENGL 202  | Creative Non-Fiction | 3 |
| HUMA 189  | Acting and Improvisation OR |  |
| SPCH 104  | Introduction to Speech | 3 |
| SOCI 101  | Introduction to Sociology | 3 |
|           |  |  | **15** |

**Semester III**

| GMMD 201 Digital Photography | 3 |
| ARTS 201 Art History BCE to 16th Century ** OR |
| ARTS 202 Art History 16th-20th Centuries ** OR |
| ARTS 203 Art and Society | 3 |
| ENGL 221 Creative Writing | 3 |
| Foreign Language (GER 9) | 3 |
| Natural Science (GER 2) | 3-4 |
|  |  |  | **15-16** |

**Semester IV**

| GMMD 211 Film Analysis | 3 |
| SOCI 250 Sociology of Mass Media | 3 |
| American History (GER 4) | 3 |
| Natural Science or Math Elective | 3-4 |
| General Elective | 3-4 |
|  |  |  | **15-17** |

**Semester V**

| GMMD 301 3-D Design | 3 |
| GMMD 313 Studies in Genre Film | 3 |
| ENGL 309 Journalism* | 3 |
| CIT 342 Visual Programming | 3 |
| Western Civilization (GER 5) | 3 |
|  |  |  | **15** |

**Semester VI**

| GMMD 302 Digital Photjournalism OR |
| GMMD 303 Experimental Digital Photography | 3 |
| GMMD 330 Web Design and Development | 3 |
| GMMD 331 Digital Illustration and Typography | 3 |
| ENGL 301 Professional Writing | 3 |
| Other World (GER 6) | 3 |
|  |  |  | **15** |

**Semester VII**

| GMMD 401 Multimedia Product Design | 3 |
| GMMD 409 Issues in New Media Journalism | 3 |
| GMMD 411 Digital Documentary Video OR |
| GMMD 412 Experimental Digital Video | 3 |
| GMMD 420 Animation Techniques | 3 |
| OR |
| GMMD 421 Sustainability Design | 3 |
| GMMD 440 Senior Project Proposal/Internship Orientation | 1 |
| U/L Arts or Humanities Elective (GER 7, 8) ** | 3 |
|  |  |  | **16** |

**Semester VIII**

| GMMD 432 Virtual Worlds | 3 |
| U/L Elective | 3 |
| SELECT ONE OR TWO COURSES | 8 |
| GMMD 441 Group Project | 4 |
| GMMD 442 Individual Project | 4 |
| GMMD 443 Arts Management Internship | 4-8 |
|  |  |  | **14** |

*Fulfills writing intensive requirement

**Art History (ARTS 201/202) can be counted as either GER 7 or GER 8; this elective should be used to cover the remaining General Education area.

**U/L = Upper Level Courses (300/400)

**GER = General Education Requirement

**NOTE:** Graphic and Multimedia Design students must meet all of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/coet/gmmd/gmmd/html.
Health and Fitness Promotion is a 2+2 program that provides advanced education in the area of health and fitness for students who have completed an associate’s degree with a science and health emphasis. There are two possible program “tracks”: The science track is intended for those students who wish to pursue employment in settings that promote health and wellness including fitness centers, corporate fitness facilities, as personal trainers, strength and conditioning specialists; the business track will provide fundamental courses in business and management which will prepare students for business ownership or management positions within health and fitness organizations. The Health and Fitness Promotion degree may also serve the purpose of providing a means for students who wish to pursue graduate studies in a similar field. As an example, the program would allow the physical therapist assistant to “bridge the gap” between the associates degree and the doctor of physical therapy (DPT) degree. Students in either track will be able to choose from specialized electives with an emphasis on exercise and sports.

**CAREER OPPORTUNITIES:**

- Graduates of the program may pursue employment in settings that promote health and wellness including fitness centers, corporate fitness facilities, as personal trainers, with athletic teams, and community and health organizations.
- According to the U.S. Bureau of Labor Statistics, jobs for fitness workers are expected to increase much faster than the average for all occupations. There is rapid growth in health clubs and other fitness facilities. Employment in the field is expected to grow 27 percent through 2016.

**TRANSFER OPPORTUNITIES:**

- Doctor of Physical Therapy (DPT) programs

**ADMISSION REQUIREMENTS:**

- AAS, AS, or AA degree in an area that emphasizes health and fitness (i.e. PTA), which includes a minimum of 5 credit hours of health/fitness related coursework.
- Successful completion of the following courses or equivalent: Human Anatomy and Physiology I & II (equivalent of BIOL 217/218); English Composition (GER 10); Introductory Psychology (GER 3); Human Development or Life Span Psychology (equivalent of PSYC 225); Kinesiology; Math (GER 1); and Introduction to Business (business track only).

**PROGRAM REQUIREMENTS:**

**CURRICULUM 2254**

**SCIENCE TRACK:**

<table>
<thead>
<tr>
<th>Semester V</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 150</td>
<td>12-15</td>
</tr>
<tr>
<td>HSMB 303</td>
<td>12-15</td>
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<tr>
<td>PHYS 121</td>
<td>12-15</td>
</tr>
<tr>
<td>PHYS 125</td>
<td>12-15</td>
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<td>U/L Liberal Arts Elective (GER 4,5,6,7 or 8)</td>
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**Business Track:**

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<tr>
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<tr>
<td>HEFI 301</td>
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<tr>
<td>MATH 141</td>
<td>3-6</td>
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**Semester VI**

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<tr>
<td>CHEM 155</td>
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</tr>
<tr>
<td>HSMB 330</td>
<td>12-15</td>
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<tr>
<td>U/L Program Electives</td>
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**Semester VII**

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<tr>
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<tbody>
<tr>
<td>HEFI 302</td>
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<tr>
<td>PHYS 122</td>
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<tr>
<td>PHYS 126</td>
<td>3-6</td>
</tr>
<tr>
<td>U/L Program Electives (GER 4,5,6,7 or 8)</td>
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**Semester VIII**

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<tr>
<th>Semester VIII</th>
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<tbody>
<tr>
<td>BSAD 340</td>
<td>3-6</td>
</tr>
<tr>
<td>HEFI 405</td>
<td>3-6</td>
</tr>
<tr>
<td>HEFI 407</td>
<td>3-6</td>
</tr>
<tr>
<td>U/L Program Electives</td>
<td>3-6</td>
</tr>
</tbody>
</table>

* Fulfills writing intensive requirement.

U/L = Upper Level Courses (300/400)

GER = General Education Requirement


NOTE: Health & Fitness Promotion students must take seven out of ten General Education Requirements, including one and ten, and 30 total General Education credits, and successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/sci_health/hefi/.
Health Care Management—B. Tech.

Health Care Management is a Bachelor of Technology degree, which includes study in health, science, business, and management. Individuals will be prepared to enter public and private service jobs with theoretical and practical skills necessary for a challenging lifelong career in an ever changing technological society.

Students In This Major:
• May start as a freshman or transfer credits from a health, science, or business curriculum for advanced standing in the major.
• The program is presented as asynchronous online courses and thus attendance in Canton will not be necessary.
• Will have internships in the last semester of study.
• Will have a diverse background in health, business, and management.
• With AAS degrees in Nursing, Medical Laboratory Technician, Occupational Therapy Assistant, or Physical Therapist Assistant, students can transfer the courses in their major for the health core courses in this Bachelor of Technology program.

Career Opportunities:
• Upward mobility in management of allied health fields
• Public and private service careers
• Insurance industry
• Research in public health
• Private industry
• Business sector jobs in administration as well as accounting and finance
• Government management positions in Emergency Management, FEMA and Homeland Security at the federal, state, and county level

Admission Requirements:
• Biology Regents with a grade of 75 or higher.
• NYS Geometry Regents or Math A plus one year with passing grades.
• Chemistry Regents with a grade of 65 or higher.
• Students must be prepared to take Oral and Written Expression (ENGL 102).
• Transfer students must have a GPA of 2.0 or better.
• Students who do not meet necessary prerequisites may be admitted to the College. However, completing the program may require more than four years.

Program Requirements:
• All students will complete a minimum of 125 credits, maintaining a GPA of 2.5.
• In order to advance to junior level status all graduates will complete 65 credits, maintaining a GPA of 2.5.
• Course work from certificate and associate degree programs with a minimum grade of C may be accepted to permit advanced standing.
• In order to maintain junior and senior level status and to advance to the final semester, all students must maintain a GPA of 2.5.
• In order to advance to the final semester and begin an internship, all students must obtain a passing grade in Health Services Management Internship Orientation (HSMB 308).
• In order to graduate, all students must successfully complete Internship (HSMB 408)—12 credits/480 hours of internship, along with Senior Seminar (HSMB 410). Both must be completed with a minimum grade of C. Failure of two internships will result in dismissal from the program.

(Curriculum 0253)

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HSMB 101 Intro. to Health Services Mgmt.</td>
<td>4</td>
</tr>
<tr>
<td>Natural Science (GER 2)</td>
<td>3-4</td>
</tr>
<tr>
<td>CITA 110 Intro. to Information Tech.</td>
<td>3</td>
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<tr>
<td>ENGL 102 Oral and Written Expression</td>
<td>3</td>
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<tr>
<td>PSYC 101 Introductory Psychology</td>
<td>3</td>
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<tr>
<th>Semester II</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HLTH 103 Health: Car. Perspect./Pract. Applic.</td>
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<tr>
<td>MATH 111 Survey of Math OR</td>
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<tr>
<td>MATH 141 Statistics</td>
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<tr>
<td>PSYC 225 Human Development</td>
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<tr>
<td>Lib. Arts Elective (GER 4,5,6,7,8,9)</td>
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</tr>
<tr>
<td>General Elective (GER recom.)</td>
<td>3-4</td>
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<thead>
<tr>
<th>Semester III</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HLTH 104 Introduction to Gerontology</td>
<td>3</td>
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<tr>
<td>HLTH 105 Pathology</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 110 Survey Complementary Medicine</td>
<td>3</td>
</tr>
<tr>
<td>Lib. Arts Elective (GER 4,5,6,7,8,9)</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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<tr>
<th>Semester IV</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 101 Foundations of Financial Acct.</td>
<td>4</td>
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<tr>
<td>HLTH 200 Medical Terminology of Disease</td>
<td>3</td>
</tr>
<tr>
<td>Lib. Arts Elective (GER 4,5,6,7,8,9)</td>
<td>3</td>
</tr>
<tr>
<td>General Elective (GER recom.)</td>
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<table>
<thead>
<tr>
<th>Semester V</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 102 Foundations of Managerial Acct.</td>
<td>3</td>
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<tr>
<td>BSAD 201 Business Law I</td>
<td>3</td>
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<tr>
<td>HSMB 301 Public Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>HSMB 304 U.S. Health Care System</td>
<td>3</td>
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<tr>
<td>U/L Liberal Arts Elective</td>
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<tr>
<th>Semester VI</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSAD 340 Management Communications</td>
<td>3</td>
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<tr>
<td>FSMA 210 Introduction to Finance</td>
<td>3</td>
</tr>
<tr>
<td>HSMB 302 Legal &amp; Ethical Iss. Health Care *</td>
<td>3</td>
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<tr>
<td>HSMB 305 Managed Care</td>
<td>3</td>
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<tr>
<td>HSMB 307 Health Care Facility Admin.</td>
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<table>
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<th>Semester VII</th>
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<tbody>
<tr>
<td>BSAD 301 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 310 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 350 Marketing</td>
<td>3</td>
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<tr>
<td>HSMB 306 Health Care Financing</td>
<td>3</td>
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<tr>
<td>HSMB 308 HSM Internship Orientation</td>
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<td>U/L Liberal Arts Elective</td>
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<table>
<thead>
<tr>
<th>Semester VIII</th>
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<tbody>
<tr>
<td>HSMB 408 Internship</td>
<td>12</td>
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<tr>
<td>HSMB 410 Senior Seminar</td>
<td>3</td>
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</tbody>
</table>

An applied course, may be substituted for two of the HLTH requirements when transferring into the program.
* Fulfills writing intensive requirement
U/L = Upper Level Courses (300/400)
GER = General Education Requirement
NOTE: Health Care Management students must take seven out of ten General Education Requirements including one and ten, 30 total General Education credits, and successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/business/health_care/
The Homeland Security program provides students with a combination of theory and practical skills in the subject area as well as offering a solid grounding in the broader justice system. As a result, students will understand the importance of the impact of technology, human resources and other organizational constraints on homeland security strategies confronting both the public and private sector.

**Students In This Major:**

- Receive advanced training in identifying, protecting and responding to threats in both the public and the private sectors in the post-USA PATRIOT Act society.
- Are familiarized with immigration law and issues related to civil liberties while involved in intelligence operations.
- Receive the same certification in the Incident Command System/National Incident Management System as our nation’s first responders.
- Individualize their final semester by either completing an internship with a criminal justice agency or completing five upper level criminal justice courses.

**Career Opportunities:**

- FBI
- Private Sector Security
- U.S. Border Patrol
- U.S. Coast Guard
- U.S. Department of Homeland Security’s Immigration and Customs Enforcement (ICE)
- U.S. Drug Enforcement Administration
- U.S. Marshall's Service
- U.S. Secret Service
- International Criminal Police Organization (Interpol)
- Transportation Security Administration

**Admission Requirements:**

Admission to the Bachelor of Technology in Homeland Security is competitive.

- Students must be prepared to take College Algebra (MATH 121)
- Students must have a high school average of at least 80.
- Students must be prepared to take ENGL 101 or ENGL 102.
- Transfer students must have a minimum cumulative grade point average of 2.5. Recommended preparatory courses or their equivalents are:
  - JUST 101 Introduction to Criminal Justice
  - JUST 105 Correctional Philosophy
  - JUST 110 Criminal Law
  - JUST 111 Criminal Procedure
  - JUST 209 Law Enforcement Communications
  - MATH 111 Survey of Mathematics OR MATH 121 College Algebra
- Admission priority will go to SUNY Canton Criminal Justice students. A minimum grade point average of 2.5 is required.

**Program Requirements**

(Curriculum 2335):

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 101</td>
<td>Introduction to Criminal Justice ..........3</td>
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<tr>
<td>ENGL 101</td>
<td>Expository Writing OR</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Oral and Written Expression .................3</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Survey of Mathematics**......................3</td>
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<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology..................3</td>
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<tr>
<td>CITA 110</td>
<td>Intro to Information Technology.............3</td>
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<tbody>
<tr>
<td>JUST 105</td>
<td>Correctional Philosophy....................3</td>
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<td>JUST 110</td>
<td>Criminal Law ................................3</td>
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<td>SOCI 101</td>
<td>Introduction to Sociology..................3</td>
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<td></td>
<td>Natural Science w/ Lab (GER 2) ..........4</td>
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<td>Humanities Elective (GER 7) ...............3</td>
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<tbody>
<tr>
<td>JUST 111</td>
<td>Criminal Procedure .......................3</td>
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<td>JUST 201</td>
<td>Critical Issues in Criminal Justice **.3</td>
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<td>JUST 209</td>
<td>Law Enforcement Communications .3</td>
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<tr>
<td></td>
<td>Liberal Arts Elective (GER 5,6,7,8,9) ....3</td>
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<tr>
<td></td>
<td>American History Elective (GER 4)...3</td>
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<thead>
<tr>
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<td>General Elective...........................3</td>
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<td>General Elective...........................3</td>
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<table>
<thead>
<tr>
<th>Semester V</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 303</td>
<td>Investigative Interviews ..................3</td>
</tr>
<tr>
<td>JUST 326</td>
<td>Threats to Homeland Security .............3</td>
</tr>
<tr>
<td>JUST 375</td>
<td>Terrorism Through the Ages ...............3</td>
</tr>
<tr>
<td></td>
<td>Program Elective..........................3</td>
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<td>U/L Liberal Arts Elective..................3</td>
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<table>
<thead>
<tr>
<th>Semester VI</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSAD 319</td>
<td>Professional Ethics.......................3</td>
</tr>
<tr>
<td>LEST 375</td>
<td>Immigration Law &amp; Border Control ..........3</td>
</tr>
<tr>
<td>JUST 355</td>
<td>Public Safety Incident Response ..........3</td>
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<tr>
<td></td>
<td>Program Elective..........................3</td>
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<tr>
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<td>U/L Liberal Arts Elective..................3</td>
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<tr>
<th>Semester VII</th>
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<tbody>
<tr>
<td>JUST 380</td>
<td>Civil Liberties &amp; Homeland Security.........3</td>
</tr>
<tr>
<td>JUST 415</td>
<td>Emerging Issues in Homeland Security........3</td>
</tr>
<tr>
<td>JUST 420</td>
<td>Corporate Role in Homeland Security.........3</td>
</tr>
<tr>
<td>JUST 425</td>
<td>Law Enforcement Intelligence Systems in Homeland Security ....3</td>
</tr>
<tr>
<td>JUST 429</td>
<td>Intro. to Culminating Experience ..........1</td>
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<td>General Elective...........................3</td>
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<table>
<thead>
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<th>Semester VIII</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 430</td>
<td>Culminating Experience in Criminal Justice OR</td>
</tr>
<tr>
<td></td>
<td>(5) U/L JUST Electives....................15</td>
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</tbody>
</table>

Students in the Homeland Security, B. Tech. program are required to earn a C or better in all JUST courses taken for credit in the program.

* MATH 106 cannot be used as a General Elective ** Writing intensive course.

U/L=Upper Level Courses (300/400) GER=General Education Requirement

NOTE: Homeland Security students must meet seven of the ten General Education Requirements and successfully complete the SUNY Canton computer competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/sci_health/home/.

Review the Index of Course Descriptions
Industrial Technology Management—B. Tech.

The Industrial Technology Management (ITM) curriculum provides students with the opportunity to blend technical interests with management and leadership aspirations. This academic program is ideal for students seeking to build upon a background in engineering technology (e.g., electrical, mechanical, civil, or construction) with an emphasis on developing abilities for project management, systems thinking, managerial skills, entrepreneurship, and business development.

**STUDENTS IN THIS MAJOR:**
- Have a specialization in an engineering discipline.
- Are able to plan and manage technical projects.
- Are prepared to contribute to business development activities such as product development, operational support, technical marketing, and production management.
- Develop skills to function in and lead a team based effort.
- Are able to communicate in an organized manner through technical reports in written, oral, and other formats appropriate to their careers.

**CAREER OPPORTUNITIES:**
Employment opportunities are broad and span the range of industry and commerce. Opportunities in this market include:
- Manufacturing and quality control
- Operations management
- Logistics
- Field managers
- Planning and scheduling
- Sales

**ADMISSION REQUIREMENTS:**
Incoming students will meet all general admission requirements as freshmen to SUNY Canton and be prepared to take College Algebra (MATH 121). Transfer students will be evaluated individually by the program academic advisor and must have a minimum GPA of 2.5.

**PROGRAM REQUIREMENTS:**
*(Curriculum 0935)*

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 101 Expository Writing OR ENGL 102 Oral and Written Expression</td>
<td>3</td>
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<tr>
<td>MATH 123 Pre-Calculus</td>
<td>4</td>
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<tr>
<td>SOET 116 Introduction to CADD</td>
<td>2</td>
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<tr>
<td>PHYS 121 College Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 125 Physics Lab I</td>
<td>1</td>
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<td>Program Elective</td>
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<tr>
<th>Semester II</th>
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<tbody>
<tr>
<td>ACCT 101 Foundations of Financial Accounting OR ACCT 104 Survey of Accounting</td>
<td>4</td>
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<tr>
<td>MATH 161 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 122 College Physics II</td>
<td>3</td>
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<tr>
<td>PHYS 126 Physics Lab II</td>
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<td>Program Electives</td>
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<tr>
<td>ECON 103 Microeconomics OR ECON 101 Macroeconomics</td>
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<tr>
<td>MATH 141 Statistics OR MECH 251 Quality Control</td>
<td>3</td>
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<tr>
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<td>GER (4, 5, 6, 7, 8, 9)</td>
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<td>BSAD 201 Business Law I</td>
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<tr>
<td>GER (4, 5, 6, 7, 8, 9)</td>
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<tr>
<td>GER (4, 5, 6, 7, 8, 9)</td>
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<thead>
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<tbody>
<tr>
<td>BSAD 340 Management Communications*</td>
<td>3</td>
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<tr>
<td>BSAD 355 Management of Technology</td>
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<tr>
<td>SOET 361 Project Management</td>
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<thead>
<tr>
<th>Semester VI</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSAD 301 Principles of Management</td>
<td>3</td>
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<tr>
<td>SOET 370 Engineering Project Analysis</td>
<td>3</td>
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<tr>
<td>Program Electives</td>
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<tr>
<td>U/L Liberal Arts/Science</td>
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<thead>
<tr>
<th>Semester VII</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSAD 449 Management Policies</td>
<td>3</td>
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<tr>
<td>SOET 377 Engineering Technology Issues</td>
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<td>SOET 430 Systems Analysis</td>
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<td>Program Electives</td>
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<td>U/L Liberal Arts/Science</td>
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<th>Semester VIII</th>
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<tbody>
<tr>
<td>SOET 348 Engineering Safety</td>
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<tr>
<td>SOET 477 Engineering Technology Capstone Project</td>
<td>3</td>
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<tr>
<td>General Elective</td>
<td>3</td>
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<tr>
<td>Program Electives</td>
<td>3</td>
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<tr>
<td>Program Electives</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

* Fulfills writing intensive requirement.

U/L = Upper Level Courses (100/200).

UL = Upper Level Courses (300/400).

GER = General Education Requirement.

**Program Electives:** Any course from the Canino School of Engineering Technology, or the Business Department.

All Program Elective courses presented for graduation must have at least a grade of “C” (or transfer credit).

**NOTE:** Industrial Technology Management students must meet seven of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement. Four of the GERs (GER 1, 2, 3, and 10) are met with existing curriculum course requirements. The remaining three GERs must be met by selecting one course each in three of the following six areas: American History (GER 4); Western Civilization (GER 5); Other World Cultures (GER 6); Humanities (GER 7); The Arts (GER 8); Foreign Language (GER 9).

**Student Learning Outcomes** can be found at www.canton.edu/csoet/itm/.
The Information Technology (IT) curriculum introduces the student to computer systems, networks, and communications. This academic program is appropriate for students seeking careers in information technology including network administration, operations, systems design, troubleshooting and management. Students have the opportunity to learn systems analysis and design, information management, security implementation, web administration and commerce, and programming.

**Students In This Major:**
- Develop management skills, communication skills, and other skills in order to meet their challenging career.
- Are taught by qualified faculty in small classes.
- Gain hands-on experience on computer hardware, networking, database management, web development, security implementation, and IT applications.
- Will complete a Capstone Project and may take an internship.

**Career Opportunities:**
- System Analyst
- IT Consultant
- Network Administrator
- Database Manager
- Web Master
- IT Security Specialist
- IT Position in any industry

**Potential Employers:**
- IT Companies
- Health Management Services
- Financial Services
- Government
- Education
- Military
- IT Departments in any industry

**Admission Requirements:**
- Students must be qualified to enter at least College Algebra (MATH 121) and Oral and Written Expression (ENGL 102).
- Chemistry or Physics courses are recommended.
- Computer or technology courses are strongly recommended.
- Transfers into this program must have a 2.5 GPA for admission. Students from other institutions and majors may have to complete certain bridge courses that could extend their graduation date.

*Students who do not meet necessary prerequisites may be admitted to the College. However, completing the program may require more than four years.*

**Program Requirements: * (Curriculum 2045)**

**Semester I**
- BSAD 100 Introduction to Business .............3
- CITA 163 Survey of Information Tech ...........3
- CITA 152 Computer Logic .....................3
- ENGL 102 Oral and Written Expression1 ..........3
- Mathematics Elective ..........................3

* 15

**Semester II**
- CITA 170 Computer Concepts & Oper. Sys. .......3
- CITA 171 Operating System Fundamentals ....3
- MATH 141 Statistics ...............................3
- Accounting1 .......................................4
- GER Course .........................................3

* 16

**Semester III**
- CITA 180 Introduction to Programming ..........4
- CITA 215 Database Concepts & Apps ..........3
- CITA 220 Data Comm & Network Tech .......3
- CITA 221 Data Comm & Network Tech Lab ...1
- Economics3 .......................................3
- Program Elective4 ..............................3

* 17

**Semester IV**
- CITA 204 Systems Analysis and Design ** ..........3
- CITA 250 Information Security ..................3
- GER Course .........................................3
- Program Elective4 ..............................3
- General Elective .................................3

* 15

**Semester V**
- BSAD 301 Principles of Management ............3
- CITA 300 Management Information Sys. ........3
- CITA 310 Web Server Administration ..........3
- SOET 361 Project Management ..................3
- GER Course .........................................3

* 15

**Semester VI**
- CITA 330 Emerging IT Applications ...............3
- CITA 400 Quantitative Approaches to Mgmt. ..3
- SOET 370 Engineering Project Analysis .........3
- GER Course .........................................3
- Program Electives* ..............................3
- Program Electives* ..............................3

* 18

**Semester VII**
- Program Electives* ..............................3
- Program Electives* ..............................3
- U/L Liberal Arts/Science .........................3
- GER Course .........................................3
- General Elective .................................3

* 15

**Semester VIII**
- CITA 460 IT & Networked Economy ..........3
- SOET 477 Capstone Project ....................3
- CITA 480 Internship in IT OR 2–Program Electives4 .................................6

* 12

* Pending State Education Department approval.

**Fulfills writing intensive requirement.**

**U/L = Upper Level Courses (300/400)**

**GER = General Education Requirement**

Students in this program must take at least 45 upper level credits (course numbers 300/400) and a minimum of 30 Liberal Arts credits.

1 ENGL 101 Expository Writing may be taken in place of ENGL 102 Oral and Written Expression.


3Economics: ECON 101 Macroeconomics or ECON 103 Microeconomics recommended.

4Program Elective: Any course from the Canino Department (including ACCT 102 Foundations of Managerial Accounting).

**NOTE:** Information Technology students must meet seven of the ten General Education Requirements and successfully complete the SUNY Canton computer competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/it/.

**Additional Graduation Requirements**

Students must take at least four upper level CITA/MINS courses and SOET 477 (Capstone Project) from SUNY Canton. Each required CITA/MINS/SOET course used to meet graduation requirements must have a grade of C or higher or transfer credit.
According to the U.S. Department of Labor Bureau of Labor Statistics, “The legal system affects nearly every aspect of our society, from buying a home to crossing the street.” Such a profound impact suggests that there are a variety of opportunities for individuals with an education in Legal Studies. The Department of Labor states that employers prefer graduates of postsecondary education programs. A graduate of SUNY Canton’s Legal Studies program may find employment in law firms, corporations, hospitals, and local, state or federal government offices. Since the program covers many legal specialties, students may choose electives that may help them to specialize in one or more areas.

**Students In This Major:**
- Spend a significant amount of time doing legal research and legal writing
- May also take courses in Accounting, Business, Criminal Justice or Law Enforcement Leadership
- Receive an interdisciplinary education
- Complete a semester-long internship with a legal organization as a culminating experience

**Career Opportunities**
- Paralegals or legal assistants in law firms and other businesses
- Real estate and mortgage preparation
- Claims adjusters, examiners, and investigators
- Occupational health and safety specialists
- Government paralegals local state and federal
- Contracts administrators
- District Attorney, Sheriff and Probation Offices
- Freelance Paralegal

**Career Outlook**
- Jobs for graduates in Legal Studies are projected to grow much faster than average for all occupations through 2018 according to the U.S. Department of Labor Bureau of Labor Statistics.
- Freelance Paralegal

**Admission Requirements:**
- Students must be prepared to take Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102).
- Students must take Business Law I and II (BSAD 201 & 202) and earn a cumulative grade point average of 2.5 in these classes.
- Transfer students must meet re-registration requirements to be considered for admission.

**Program Requirements**

(Curriculum 0818)

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LEST 101</td>
<td>American Legal System.............3</td>
</tr>
<tr>
<td>BSAD 201</td>
<td>Business Law I....................3</td>
</tr>
<tr>
<td>CITA 110</td>
<td>Intro. to Information Technology ..3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing OR.............3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Oral and Written Expression........3</td>
</tr>
<tr>
<td>JUST 101</td>
<td>Intro. to Criminal Justice........3</td>
</tr>
<tr>
<td>FYEP 101</td>
<td>First Year Experience................1</td>
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<td>Total..................................16</td>
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</tbody>
</table>

**Semester II**

| BSAD 200   | Business Communications...........3 |
| BSAD 202   | Business Law II....................3 |
| CITA 101   | Library/Info Literacy...............1 |
| Math       | Mathematics Elective (GER 1) ....3-4 |
| Social     | Social Science Elective (GER 3)....3 |
| History    | American History Elective (GER 4) 3 |
|            | Total..................................16-17 |

**Semester III**

| JUST 110   | Criminal Law......................3 |
| ACCT 101   | Foundations of Financial Accct.....3 |
| Foreign    | Language (GER 9)...................3 |
|            | Total..................................3 |

| Natural Sciences Elective (GER 2) | 3-4 |
| West. Civilization Elec. (GER 5) | 15-16 |

**Semester IV**

| LEST 310   | Legal Research....................3 |
| ACCT 102   | Foundations of Managerial Accct..3 |
| JUST 111   | Criminal Procedure...............3 |
|            | Total..................................15 |

**Semester V**

| LEST 330   | Legal Writing*....................3 |
| LEST 350   | Litigation..........................3 |
| LEST 360   | Family Law..........................3 |
| JUST 315   | Constitutional Law................3 |
|            | Total..................................15 |

**Semester VI**

| LEST 449   | Advanced Legal Writing...........3 |
| LEST 370   | Real Property......................3 |
| LEST 380   | Wills, Estates, and Trusts........3 |
| BSAD 319   | Professional Ethics................3 |
|            | Total..................................15 |

**Semester VII**

| LEST 429   | Orientation to Culminating........3 |
| LEST 497   | Experience Legal Studies.........3 |
|           | (If taking LEST 480 in 8th semester). .1 |
| LEST 480   | Legal Studies Internship OR....15 |
| LEST 485   | Senior Project OR................15 |
|            | 5 U/L Program Electives...........15 |
|            | Total..................................15 |

* Fulfills writing intensive requirement.

**U/L = Upper Level Courses (300/400)**

**GER = General Education Requirement**

**Program Electives**: Courses in ACCT, LELM, LEST, BSAD, or JUST; Environmental Law (CONS 388), Legal Issues in E & D (EADM 307), Perpetrators & Victims: Crime and Violence in Literature (ENGL 305), Professional Writing and Communication (ENGL 301), Introduction to Finance, (FSMA 210), Estate Planning (FSMA 410), Legal and Ethical Issues in Health Care (HSMB/NURS 302), and Funeral Service Law (MORT 401).

**NOTE**: Legal Studies students must meet all ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/business/lest/.
The Bachelor of Business Administration in Management provides a solid foundation in current management theory and practice. Students are introduced to the principles of accounting, finance, marketing, strategy, operations, human resources, economics, ethics, and communications. Case studies, internships and real world applications in corporate, non-profit, and government settings are integral parts of this exciting four-year program.

**STUDENTS IN THIS MAJOR:**

- Are educated in all of the functional managerial areas
- Use cutting-edge case studies to hone analytical skills

**CAREER OPPORTUNITIES:**

Graduates plan, organize, and control organizational resources to enhance value to stockholders and stakeholders of the organization. Graduates assume entry managerial roles in:

- Retail organizations
- Non-profit organizations
- Government organizations
- Manufacturing organizations

**ADMISSION REQUIREMENTS:**

- Students must be prepared to take Expository Writing (ENGL 101).
- Transfer students must meet re-registration requirements to be considered for admission.

**PROGRAM REQUIREMENTS:**

*(Curriculum 1645)*

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSAD 100</td>
<td>Intro. to Business ..................3</td>
</tr>
<tr>
<td>CITA 110</td>
<td>Intro. to Information Technology ....3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing (GER 10).........3</td>
</tr>
<tr>
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<td>Mathematics Elective (GER 1) ........3-4</td>
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<td>Western Civilization (GER 5) .......3</td>
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<td>15-16</td>
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</table>

**Semester II**

| ACCT 101  | Foundations of Financial Accounting:..............................4 |
| ECON 101  | Macroeconomics (GER 3)........................................3 |
|          | General Elective................................................3 |
|          | American History (GER 4)........................................3 |
|          | Humanities (GER 7)................................................3 |
|          | 16 |

**Semester III**

| BSAD 201  | Business Law I.................................................3 |
| ACCT 102  | Foundations of Managerial Accounting:.........................3 |
| ECON 103  | Microeconomics...................................................3 |
|          | Arts Elective (GER 8)..........................................3 |
|          | L/L Elective (BSAD/ECON/ACCT).................................3 |
|          | 15 |

**Semester IV**

| BSAD 202  | Business Law II..................................................3 |
| FSMA 210  | Introduction to Finance.........................................3 |
| MATH 141  | Statistics..........................................................3 |
|          | Foreign Language (GER 9) OR Other World (GER 6)............3 |
|          | Business Minor Course..........................................3 |
|          | 15 |

**Semester V**

| BSAD 301  | Principles of Management........................................3 |
| BSAD 310  | Human Resource Management.....................................3 |
| BSAD 355  | Management of Technology.......................................3 |
|          | U/L Elective (BSAD/ECON/ACCT/MINS)............................3 |
|          | U/L Business Minor Course.....................................3 |
|          | 15 |

| Semester VI | BSAD 319 Professional Ethics* .......................3 |
|            | BSAD 340 Management Communications ................3 |
|            | BSAD 350 Marketing............................................3 |
| ECON 314   | Managerial Economics..........................................3 |
|            | U/L Business Minor Course.................................3 |
|            | 15 |

**Semester VII**

| BSAD 400  | Operations Management.................................3 |
| BSAD 449  | Strategic Policies and Issues.........................3 |
|          | General Elective...............................................3 |
|          | U/L General Elective.........................................3 |
|          | U/L Elective (BSAD/ECON/ACCT/MINS).........................3 |
|          | 15 |

**Semester VIII**

| BSAD 450** Business Internship AND/OR, 6-15 |
| BSAD 410  Senior Project AND/OR, 3-15 |
| U/L Program Elective................................3-15 |
| U/L Program Elective................................3-15 |
| 15 |

*L/L = Lower Level Courses (100/200)  
U/L = Upper Level Courses (300/400)  
GER = General Education Requirement  
* Fulfills writing intensive requirement.  
**3.0 GPA required to enroll in BSAD 450 Business Internship  

**Program Electives:** ACCT, BSAD, ECON, FSMA, LEST, GMMD, HSMB, SPMT and MINS

**Reminder:** Prerequisite to BSAD 450 or BSAD 410 is BSAD 405 (Orientation to Culminating Experience)

**NOTE:** Management students must meet eight of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/business/bsad/.
Graduates of the Bachelor of Mechanical Technology (B. Tech) program design, operations, construction, maintenance and systems testing. Consumer products, factory automation, and the defense industry are a few of the many areas employing our highly sought graduates.

**Students in This Major:**
- Learn design skills and manufacturing tools and techniques.
- Learn to apply mathematical and science skills in a hands-on world.
- Utilize sophisticated laboratory equipment in testing products and processes.
- Develop computer skills for solving technical problem solving.
- Often participate in small team projects and sometimes are asked to function as the team leader. Communication and project management skills are very important.
- Gain real world experience through internship opportunities and project-based learning.

**Career Opportunities:**
- Aerospace
- Automation & Controls
- Automotive Industry
- Composite Materials Production
- CIM
- Electronics Manufacturing
- Construction and Fabrication
- Machining & Metalworking
- Manufacturing (electronics, mechanical, defense, energy)
- Medical Products
- Packaging
- Plant Engineering & Maintenance
- Plastics Molding & Manufacturing
- Product Design & Development, and
- Rapid Prototyping
- Quality Assurance
- Robotics
- Supply Chain Management
- Graduate School

**Admission Requirements**
- Candidates should have completed NYS Regents Math B with grade 80 or better, or Course III with one additional year of high school mathematics, and be ready to enroll in pre-calculus. If a student does not meet this criterion, he/she will be required to take prerequisites in mathematics.
- Students who graduate with a two year college degree in a program related area will be evaluated with the objective of awarding maximum credit toward the completion of the (B Tech) degree.
- Transfer students from community colleges, universities or other institutions of higher learning with some coursework completed will be evaluated on case-by-case bases.
- Refer to the table of high school course prerequisites for admission.

**Program Requirements:**

*(Curriculum 2250)*

<table>
<thead>
<tr>
<th>Semester I</th>
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<tbody>
<tr>
<td>ENGL 102 Oral and Written Expression ..........3</td>
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<tr>
<td>ENGS 101 Introduction to Engineering ..........2</td>
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<tr>
<td>MATH 123 Pre-Calculus Algebra ..................4</td>
<td></td>
</tr>
<tr>
<td>PHYS 121 College Physics I ......................3</td>
<td></td>
</tr>
<tr>
<td>PHYS 125 College Physics I Lab ..................1</td>
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<tr>
<td>SOET 116 Intro to Computer Drafting ..........2</td>
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<td>MATH 161 Calculus I ................................4</td>
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<td>MECH 128 Electromechanical Technology ..........3</td>
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<tr>
<td>MECH 172 Technical Statics ......................3</td>
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<tr>
<td>PHYS 122 College Physics II .....................3</td>
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<td>PHYS 126 College Physics II Lab ................1</td>
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<td>MATH 364 Differential Equations ................3</td>
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<td>MECH 301 Technical Dynamics ....................3</td>
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<tr>
<td>MECH 342 Thermodynamics ........................3</td>
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<td>SOET 377 Engineering Technology Issues ..........1</td>
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<td>MATH 141 Statistics ................................3</td>
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<td>MECH 343 Heat Transfer ............................3</td>
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<td>SOET 348 Engineering Safety ......................1</td>
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<td>MECH 341 Intermediate Fluid Mechanics ...........3</td>
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<td>SOET 361 Project Management ....................3</td>
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<td>SOET 370 Engineering Project Analysis ..........3</td>
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* Fulfills writing intensive requirement

U/L = Upper Level Courses (300/400)

GER = General Education Requirement

**Note:** Mechanical Technology students must meet seven of ten General Education Requirements, 45 upper level credits, and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/csoc/ mech/.

—This is a new technology program; when it graduates its first class, application will be submitted to the Accreditation Board for Engineering and Technology (ABET) for accreditation of this program as an engineering technology program.
The SUNY Canton RN-BS Nursing program is based upon the beliefs that:

- Communities are comprised of unique, holistic individuals and aggregates who have values and beliefs that originate from their life-world, who have specific needs and are capable of making decisions by themselves, with others, and/or by proxy.
- Health and well-being are dynamic lived experiences uniquely defined by the individual and community within the context of culture and environment.
- Nursing is a unique profession that provides a service to society that is culturally sensitive, evidence-based, collaborative, and individualized. Utilizing the nursing process, the nurse facilitates transformation within individuals, groups, and communities to attain desired outcomes.

**Students In This Major:**

- Demonstrate critical thinking and decision making that utilizes the nursing process and evidence-based practice in the delivery of care to culturally diverse individuals, families, groups, and community.
- Synthesize knowledge from the liberal arts and nursing to promote the health and well-being of culturally diverse individuals, families, groups, and communities.
- Integrate legal and ethical concepts with the leadership role to advance and promote the health and well-being of culturally diverse individuals, families, groups, and communities.
- Utilize nursing theory/conceptual frameworks, nursing research, and evidence-based practice in addressing the nursing care needs of culturally diverse individuals, families, groups and communities.
- Incorporate leadership theory to the nurse manage role in the collaboration, coordination, and provision of nursing care in health care settings.

- Apply knowledge from nursing, humanities, biological, and social sciences to plan, implement, and evaluate care for sick and well individuals, families, groups, and communities.
- Participate as nurse leaders on interdisciplinary care teams to influence positive social change and health care policy.
- Plan and implement educational activities that empower individuals, families, group, and communities to manage their health care at the local, national, and global level.
- Collaborate with health care colleagues to promote holistic health care for individuals, families, groups, and communities.

**Career Opportunities:**

- Public and Community Health
- Armed Services and Veterans Administration
- Entry level nursing management
- Acute, long-term, and specialty nursing units

**Accreditations:**

- Registered by the NYS Education Department, Office of the Professions.
- NLNAC candidacy status March 2012

**Admission Requirements:**

- In order to be considered for admission, students will need to be graduates of an associate degree nursing program from an accredited college and be licensed to practice as a Registered Nurse prior to enrolling in: Health Assessment in Nursing (NURS 303), Nursing Management and Leadership (NURS 400), and Community Health Nursing (NURS 402). Students must have completed a minimum of 60 credits, 27 of which must be in nursing with the remainder consisting of courses from the liberal arts and sciences.

**Program Requirements:**

*(Curriculum 0291)*

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<tr>
<th>Semester I</th>
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<tr>
<td>NURS 300</td>
<td>Conceptual Frameworks in Nursing ..........3</td>
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<td>Health Assessment In Nursing ............4</td>
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<tr>
<td>NURS 302</td>
<td>Legal &amp; Ethical Iss. in Healthcare ..........3</td>
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<tr>
<td>NURS 304</td>
<td>Health Promotion &amp; Restoration ............3</td>
</tr>
<tr>
<td>BIOL 310</td>
<td>The Genome ..................................3</td>
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<tr>
<td>MATH 141</td>
<td>Statistics ..................................3</td>
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<td>Lib. Arts Elective (GER 4,5,6,7,8) ........3</td>
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<th>Semester III</th>
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<tr>
<td>NURS 301</td>
<td>Public Health Issues .....................3</td>
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<tr>
<td>NURS 370</td>
<td>Research Methods in the Social &amp; Health Sciences ..........3</td>
</tr>
<tr>
<td>NURS 400</td>
<td>Nursing Mgmt &amp; Leadership ** ..........3</td>
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<td>Lib. Arts Elective (GER 4,5,6,7,8) ........3</td>
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<th>Semester IV</th>
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<tbody>
<tr>
<td>NURS 402</td>
<td>Community Health Nursing ................3</td>
</tr>
<tr>
<td>NURS 403</td>
<td>Transcultural Nursing ....................3</td>
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<td>U/L Liberal Arts Elective ...........3</td>
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- Students must pass all courses with a grade of “C” or better prior to graduating with the BS degree.
- Students who have not met the prerequisite for MATH 141 (Statistics) take MATH 111; students who have already taken Statistics or have met the prerequisite for MATH 141 take a Liberal Arts elective
- Fulfills writing intensive requirement

**UL = Upper Level Courses (300/400)**
**GER = General Education Requirement**

**Note:** Nursing students must take seven out of ten General Education Requirements including one and ten, 30 total General Education credits, 45 upper level credits, and successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/sci_health/nurs/.
The BBA in Sports Management prepares individuals for professional careers within sport organizations, such as nonprofit companies, commercial and private enterprises, government/public sector jobs, and various levels of professional sports.

The BBA in Sports Management will develop capable sport management professionals able to apply creative communication, leadership, and managerial skills in an array of positions in the sport industry. These positions can include sports administration, sales, marketing, public relations, information and media, operations, facilities, and event management. The program offers an exciting array of sports management courses that provide students experiential learning opportunities and hands-on application throughout their journey. The program also offers various culminating experience options that include applied senior level courses and/or senior research project and/or semester internship.

**Students In This Major:**
- Will be prepared to be effective managers and leaders in the various skills, roles, and functions of sport management professionals.
- Develop communication and technical skills needed to be effective professionals in various sport management settings.
- Will gain valuable hands-on experience and developmental insights from applied learning opportunities throughout the program.

**Career Opportunities**
- Sport Event Management
- Marketing and Promotions
- Athletic Director
- Sport Facilities Manager
- Sport Programming
- Athletic Business Operations
- Sport Media Relations
- Ticket Sales Operations
- Sport Corporate Sales
- Recreation Programming
- Sport Coordinators

In addition, the Sport Management program prepares students who desire to pursue an advanced degree in Sport Management.

**Admission Requirements**
- Students must have prerequisites to enroll in a Math GER 1 course. (Math A Exam plus 1 year) and ENGL 101.
- Students transferring into the 2nd semester or later of the program must have completed a Math GER 1 course with a 2.0, and Basic Communications GER 10 with at least a 2.5.

**Program Requirements (Curriculum 0182)**

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<tr>
<th>Semester I</th>
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<td>ACCT 101</td>
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<td>ECON 103</td>
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<td>Math (GER 1)</td>
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<td>SPMT 242</td>
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<td>BSAD 350</td>
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<td>GER (1-10)</td>
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**Recommended Program Electives:**
- BSAD 309 Sports Media .................................. 3
- BSAD 310 Sports Broadcasting .................... 3
- BSAD 311 Sport Entrepreneurship ............ 3
- BSAD 421 Sport Management Internship .... 3
- BSAD 422 Senior Project ...................... 3
- U/L Program Electives .................... 3

**Student Learning Outcomes** can be found at www.canton.edu/SCI_HEALTH/SPMT/
The Bachelor of Technology in Veterinary Services Management constitutes the final two years of a 2+2 articulation program in which the first two years entail completion of a degree in Veterinary Technology from an accredited program. This degree serves to provide the knowledge and skills necessary to manage a business or organization that provides veterinary care to animals. Emphasis is placed upon establishing a foundation in basic business and accounting principles, then applying these principles to the management of specific types of veterinary businesses and institutions. Students will complete the program with an internship concentrating on management and administration within a veterinary setting. This program may be completed partially or entirely online.

**STUDENTS IN THIS MAJOR:**
- Begin by laying a foundation in Business, Accounting, Math, and Liberal Arts.
- Build upon this foundation with coursework specific to veterinary management.
- Will spend a semester in the field as an intern in a managerial capacity.
- Are prepared for entry-level management positions in veterinary hospitals or other veterinary industries or organizations.
- Will complete the course work required for Certified Veterinary Practice Manager (CVPM) certification.

**CAREER OPPORTUNITIES:**
- Veterinary Practice Management
- Biomedical Research Facility Management
- Diagnostic Laboratory Management
- Animal Shelter Management
- Mobile and Spay/Neuter Clinic Management
- Zoo and Wildlife Management
- Public Sector employment

**CAREER OUTLOOK:**
- Veterinary Technician has been listed as one of Money Magazine’s “Top 10 Fastest Growing Career Fields.” Coupling this training with a baccalaureate degree focusing on veterinary business management increases its value, enhancing the earning potential of graduates.
- Veterinary hospitals and other animal care facilities seek managers with not only a working knowledge of the medical and technical aspects of veterinary medicine, but also an understanding of the operational structure of animal care facilities and the ability to oversee the personnel, information, finances, infrastructure, equipment, and other integral components of the operation of these facilities.
- With fewer, larger veterinary facilities becoming the norm, there is greater stratification of duties within these facilities, and greater demand for full-time managers and Technician-Managers.

**ADMISSION REQUIREMENTS:**
- Graduation from an AVMA accredited veterinary technology program.
- Veterinary Technician licensure, registration, or certification, as applicable for state of residency, or eligibility thereof.

**PROGRAM REQUIREMENTS:**
*(Curriculum 1672)*

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<th>Course Title</th>
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<td>Foundations of Financial Accounting</td>
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<td>ACCT 102</td>
<td>Foundations of Managerial Accounting</td>
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<td>BSAD 215</td>
<td>Small Business Management</td>
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<td>VSCT 301</td>
<td>Veterinary Hospital Management I</td>
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<td>BSAD 310</td>
<td>Human Resource Management</td>
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<td>Occupational Health and Safety</td>
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<td>HSMB 301</td>
<td>Public Health Issues</td>
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<td>BSAD 301</td>
<td>Principles of Management</td>
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<td>Veterinary Hospital Mgt. II</td>
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<td>VSCT 308</td>
<td>Veterinary Services Management</td>
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<td>VSCT 401</td>
<td>Internship Orientation</td>
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<td>VSCT 401</td>
<td>Issues &amp; Perspectives in Veterinary Medicine*</td>
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<td>VSCT 408</td>
<td>Internship for Veterinary Services Management</td>
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<td>HSMB 410</td>
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<tr>
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</tbody>
</table>

* Fulfills writing intensive requirement.
U/L = Upper Level Courses (300/400)
GER = General Education Requirement

**NOTE:** Veterinary Services Management students must meet eight of the ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

**STUDENT LEARNING OUTCOMES** can be found at www.canton.edu/sci_health/vsct/.

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The Bachelor of Science degree program in Veterinary Technology provides an advanced educational opportunity to students interested in pursuing careers in the veterinary health care field. The program includes specific course work required in our Veterinary Technology AAS program and adds upper division offerings in the sciences and applied electives to obtain the distribution hours required of a Bachelors of Science degree. Graduates of this program will become veterinary technologists. Veterinary technicians and technologists perform the duties that are often described as those of a veterinary nurse.

**STUDENTS IN THIS MAJOR:**
- Work with companion animals, farm animals and common laboratory animals.
- Receive advanced technical training above core requirements of a graduate veterinary technician.
- Will be eligible to take the Veterinary Technician National Licensing Examination (VTNE).
- Will be eligible to pursue a post graduate degree (MS, PhD, DVM).

**CAREER OPPORTUNITIES:**
Veterinary technologists provide professional technical support to veterinarians, biomedical researchers, and other animal care specialists. They may work in:
- Management
- Clinical practice
- Educational Institutions
- Public Health
- Government agencies
- Research & Pharmaceutical industry
- Veterinary supply and equipment sales

**CAREER OUTLOOK:**
- At the present time, there is a serious shortage of veterinary technicians throughout the country.

**ADMISSION REQUIREMENTS:**
Admission is selective and is based on academic credentials. To be considered for admission, a student must possess the following:
- Overall high school average of 75 or above
- Biology Regents exam with 75 or above
- Chemistry Regents exam with 65 or above
- NYS Geometry Regents or Math A plus one year of more advanced Math with 75 or above.
- Minimum high school average of 75.
- A pre-exposure rabies vaccination series (3 injections) is strongly recommended for all Veterinary Science Technology students. This can usually be arranged through your local health department or personal physician.

**PROGRAM REQUIREMENTS:**

*(Curriculum 2278)*

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSCT 101</td>
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<tr>
<td>VSCT 103</td>
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<td>CHEM 155</td>
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<td>2</td>
</tr>
<tr>
<td>VSCT 112</td>
<td>3</td>
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<tr>
<td>VSCT 212</td>
<td>1</td>
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<tr>
<td>VSCT 213</td>
<td>2</td>
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<table>
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<th>Semester V</th>
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<tr>
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<td>2</td>
</tr>
<tr>
<td>VSCT 206</td>
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<td>U/L Program Elective</td>
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<tr>
<td>U/L Liberal Arts Elective</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Semester VI</th>
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<tbody>
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<tr>
<td>VSCT 211</td>
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</tr>
<tr>
<td>U/L Program Elective</td>
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<tr>
<td>U/L Liberal Arts Elective (GER 4, 5, 6 or 8)</td>
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<table>
<thead>
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<table>
<thead>
<tr>
<th>Semester VIII</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 325</td>
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<td>U/L Program Elective</td>
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<tr>
<td>U/L Liberal Arts Elective (GER 4, 5, 6 or 8)</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

† Math Elective: MATH 111, 121, 122, 141 or another appropriate math by advisement
- Of the courses with the VSCT prefix, any course may only be repeated one time.
* Fulfills writing intensive requirement.

U/L = Upper Level Courses (300/400)
GER = General Education Requirement

**U/L Program Electives:** Any U/L course with the prefix of: VSCT, BIOL, or CHEM; as well as: BSAD 319 Professional Ethics, HSMB 301 Public Health Issues, HSMB 303 Occupational Health and Safety, or SSCI 370 Research Methods in the Social & Health Sciences.

**NOTE:** Veterinary Technology students must take seven out of ten General Education Requirements including one and ten, 30 total General Education credits, and successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/sci_health/vet/.
STUDENTS IN THIS MAJOR:
• Learn accounting theory, financial, managerial and cost accounting systems.
• Learn how accountants track, report, and interpret activity to allow for appropriate decisions by business, government, education, and individuals.
• Students have the opportunity to receive IRS approved training, to be certified in preparing taxes, and to volunteer through the only Volunteer Income Tax Assistance (VITA) site in St. Lawrence County.

CAREER OPPORTUNITIES:
• Private business and industry
• Public accounting agencies
• Governmental accounting positions
• Tax preparation
• Financial management

CAREER OUTLOOK:
Students with a degree in accounting are positioning themselves for career advancement and greater earning power. The accounting profession is committed to delivering a strong ethical foundation and a commitment to lifelong learning. The role of the accountant is ever changing and integral to any business entity.

TYPICAL JOBS UPON GRADUATION:
• Staff Accountant
• Claims Adjustor
• Project Manager
• Credit Analyst
• Loan Specialist
• Account Clerk
• Tax Preparer
• Business Manager

RECENT EMPLOYERS OF SUNY CANTON GRADUATES:
• Lowe's
• St. Lawrence County
• Pinto, Mucenski & Watson PC
• United Helpers
• Home Depot
• Claxton-Hepburn Medical Center
• C. Rowe Accounting & Tax Preparation
• North Country Savings Bank
• SeaComm Credit Union
• Dragon Benware Crowley and Company PC
• Burlington Vermont School District Business Office

TRANSFER OPPORTUNITIES:
• Clarkson University
• SUNY Canton, SUNY Albany, SUNY IT, SUNY Plattsburgh, SUNY Potsdam, SUNY Oswego
• Siena College
• LeMoyne College
• Rochester Institute of Technology
• Syracuse University
• University of Vermont

Students wishing to transfer into a four-year program should consult their transfer school of choice prior to transfer.

ADMISSION REQUIREMENTS:
• Students must be prepared to take Expository Writing (ENGL 101).

PROGRAM REQUIREMENTS:

<table>
<thead>
<tr>
<th>(Curriculum 0630)</th>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 101</td>
<td>Foundations of Financial Accounting</td>
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<tr>
<td>ECON 101</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>CITA 110</td>
<td>Intro. to Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing</td>
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</tr>
<tr>
<td>Mathematics*</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>**</td>
<td>16-17</td>
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<table>
<thead>
<tr>
<th>Semester II</th>
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<tbody>
<tr>
<td>ACCT 102</td>
<td>Foundations of Managerial Accounting</td>
</tr>
<tr>
<td>BSAD 200</td>
<td>Business Communications*</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>Humansities Elective (GER 7)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (GER 1)</td>
<td>3-4</td>
</tr>
<tr>
<td>**</td>
<td>15-16</td>
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<table>
<thead>
<tr>
<th>Semester III</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Electives (2)</td>
<td>6</td>
</tr>
<tr>
<td>BSAD 201</td>
<td>Business Law</td>
</tr>
<tr>
<td>Program Elective or GER (2,4,5,6,8,9)**</td>
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<tr>
<td>Program Elective</td>
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<td>**</td>
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<table>
<thead>
<tr>
<th>Semester IV</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Accounting Electives (2)</td>
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</tr>
<tr>
<td>FSMA 210</td>
<td>Introduction to Finance</td>
</tr>
<tr>
<td>Program Elective or GER (2,4,5,6,8,9)**</td>
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</tr>
<tr>
<td>General Elective or GER (2,4,5,6,8,9)**</td>
<td>3</td>
</tr>
<tr>
<td>**</td>
<td>15</td>
</tr>
</tbody>
</table>

* Intermediate Algebra (MATH 106); Math of Finance (MATH 108) or higher.
** Fulfills writing intensive requirement.

GER = General Education Requirement

Program Electives: ACCT, BSAD, ECON, FSMA, LEST, or MINS

NOTE: Accounting students must successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/business/accounting.html.
SUNY Canton is a leader in air conditioning education, and this program is well-suited for individuals with an interest in energy and technology. With energy costs at their current level, this program leads to employment opportunities across the U.S. and around the globe. It also provides excellent preparation for entry into baccalaureate programs such as Mechanical Technology, Alternative and Renewable Energy Systems or Industrial Technology Management at SUNY Canton. Students also pursue baccalaureate degrees at other institutions.

**Students In This Major:**
- Prepare for employment as an air conditioning technician upon graduation.
- Study under experienced HVAC engineers.
- Work in spacious, well-equipped laboratories.
- Participate in community service projects related to their curriculum.
- Are introduced to the current trends and future directions of the HVAC industry.
- Are active participants in ASHRAE (American Society of Heating, Refrigeration, and Air Conditioning Engineers).
- Have the opportunity to shadow employers in the field during the freshman year.
- Have opportunities for summer work in the HVAC field.

**Career Opportunities:**
- Service Technicians
- HVAC Contractors
- Designers
- HVAC Sales
- Controls Specialists
- Facilities Management

**Career Outlook:**
- All graduating students seeking employment in the past two years have accepted employment by the first of June after graduation.

**Recent Employers Of SUNY Canton Graduates:**
- Day Automation Systems
- Prax Air, Inc.
- Central New York Trane
- Siemens
- Thomas Associates
- T.P. Woodside, Inc.
- Galson Engineering
- Bomac
- Hyde-Stone
- NEPCO
- GEMMA Power Systems

**Accreditation:**
- Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202 – Telephone (410) 347-7700.

**Admission Requirements:**
- Students must be qualified to enter Pre-Calculus Algebra (MATH 123)

Students who do not meet the recommended high school math prerequisites will be admitted to either Heating and Plumbing Service or Air Conditioning Maintenance & Repair certificate programs. Students will be admitted into the Air Conditioning Engineering Technology program upon successful completion of either certificate program.

**Program Requirements:**

**Curriculum 0444**

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MECH 121 Manufacturing Processes</td>
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<td>ENGL 102 Oral and Written Expression</td>
<td>3</td>
</tr>
<tr>
<td>MATH 123 Pre-Calculus Algebra</td>
<td>4</td>
</tr>
<tr>
<td>SOET 116 Computer Drafting</td>
<td>2</td>
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<tr>
<td>PHYS 121 College Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 125 Physics Lab I</td>
<td>1</td>
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<td><strong>16</strong></td>
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<thead>
<tr>
<th>Semester II</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>MECH 103 Intro to HVAC-R</td>
<td>3</td>
</tr>
<tr>
<td>ENGS 102 Programming for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>MATH 161 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 122 College Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 126 Physics Lab II</td>
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<th>Semester III</th>
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<tbody>
<tr>
<td>ACHP 243 Air Conditioning I</td>
<td>3</td>
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<tr>
<td>ACHP 253 Domestic &amp; Commercial</td>
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<tr>
<td>Heating I *</td>
<td>4</td>
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<tr>
<td>ELEC 261 Electricity</td>
<td>4</td>
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<tr>
<td>MECH 241 Fluid Mechanics</td>
<td>3</td>
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<td>MECH 242 Fluid Power Lab</td>
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<th>Semester IV</th>
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<tbody>
<tr>
<td>Program Elective CAD</td>
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<tr>
<td>ACHP 264 Air Conditioning Syst. Design</td>
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<td>Program Elective</td>
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<tr>
<td>ELEC 141 Industrial Controls</td>
<td>2</td>
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<td><strong>15</strong></td>
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</tbody>
</table>

* Fulfills writing intensive requirement.

**Note:** Air Conditioning Engineering Technology students must successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/soet/air_cond.html.

**Additional Graduation Requirements**

Students must have completed while at SUNY Canton, 12 credits of 200 level courses, including ACHP 264, contained in the current Air Conditioning curriculum and earning a minimum GPA of 2.0 for all such credit hours taken while under the direct advisement of the program faculty.
Apprentice Training: Industrial Trades—AAS

**Students In This Major:**

- Enter into this program while working towards or after obtaining a Journeyman’s Certificate through technical instruction and on-the-job training through the BOCES coordinated NYS Apprentice Program.

- Earn the equivalent of one year’s college-level study following satisfactory completion of the Journeyman’s Certificate, leading to an Associate in Applied Science.

**Career Opportunities:**

- Program is designed to prepare skilled tradesmen to enhance their employment growth potential, not entry-level employment.

**Potential Salary:**

- Average salary for skilled trades employees varies greatly depending on employer. This degree can enhance the employee’s earning ability both with the current employer and future employers.

**Program Requirements:**

*(Curriculum 0473)*

<table>
<thead>
<tr>
<th>Credits</th>
<th>Related Technical Instruction and Supervised On-the-Job Training</th>
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<tr>
<td></td>
<td><em>(Represented by satisfactory completion of Journeyman’s Certificate</em> with related instruction provided by St. Lawrence-Lewis BOCES)*</td>
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<tr>
<td>English/Humanities</td>
<td>..................................................</td>
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<tr>
<td>Social Sciences</td>
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<tr>
<td>Mathematics/Science</td>
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<tr>
<td>Liberal Arts &amp; Science Elective</td>
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</table>

* Fulfills writing intensive requirement.

Student Learning Outcomes can be found at [www.canton.edu/business/apprentice.html](http://www.canton.edu/business/apprentice.html).
Graduates of the Automotive Technology program experience an exciting period of transition as manufacturers continue their shift toward higher fuel efficiency. Recruiters and employers of SUNY Canton’s graduates include dealerships, service industries, automobile manufacturers, and parts suppliers. Graduates learn how to troubleshoot, diagnose and repair all aspects of the automobile power train, suspension, steering, braking and air conditioning systems.

**Students In This Major:**
- Utilize the latest technology in an electronics-based curriculum.
- Acquire extensive hands-on experience in well-equipped laboratories.
- Receive a world class education in automotive electrical, mechanical, technical, and services areas.
- Learn on late model cars donated by automotive manufacturers.
- Get special attention from faculty in small laboratory classes.
- Are encouraged to take the Automotive Service Excellence certification test upon completion of course work.
- Enjoy outstanding career placement.

**Career Opportunities:**
- Automotive Service Technician
- Service Manager
- Service Advisor
- Industrial Research and Development
- Automotive Machine Shop
- Auto Parts Manager/Owner
- Technical Representative
- Automatic Transmission Technician
- Wheel Alignment/Suspension Technician
- Maintenance Technician
- Fleet Maintenance Supervisor/Technician
- Heavy Equipment Maintenance Technician

**Career Outlook:**
- The U.S. Department of Labor cites a strong demand for qualified automotive technicians and master technicians.

**Recent Employers Of SUNY Canton Graduates:**
- Ford Motor Company
- Chrysler Corporation
- Toyota (Lexus Division)
- General Motors Corporation
- Sears
- Firestone Tire Company
- Goodyear Tire Company
- NAPA Auto Parts
- Snap-On Tools Corporation
- Taylor Rental Corporation
- Troyer Race Car Engineering
- Various dealerships throughout NYS
- Many graduates own their own businesses.

**Transfer Opportunities:**
- SUNY Utica/Rome, Oswego
- Indiana State University

**Articulation:**
- Applicants who have completed a two-year vocational-technical automotive program may qualify for advanced standing (transfer credit).

**Admission Requirements:**
- Students must be qualified to enter Applied College Mathematics (MATH 101)

**Program Requirements:**

<table>
<thead>
<tr>
<th>Curriculum 0525</th>
<th>Credits</th>
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<td>AUTO 101</td>
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<td>AUTO 104</td>
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<td>AUTO 111</td>
<td>1</td>
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<td>AUTO 112</td>
<td>3</td>
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<tr>
<td>AUTO 122</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>3</td>
</tr>
<tr>
<td>MATH 101</td>
<td>3</td>
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</tbody>
</table>

* Credit hours are approximate and subject to change.

**Semester II**
- AUTO 113: 3
- AUTO 114: 1
- AUTO 141: 3
- AUTO 144: 3
- MECH 121: 3
- PHYS 115: 4
- CHOOSE ONE:
  - AUTO 102: 2
  - AUTO 103: 2

**Semester III**
- AUTO 213: 4
- AUTO 220: 4
- AUTO 225: 4
- AUTO 241: 2
- AUTO 282: 1
- Elective: 3

**Semester IV**
- AUTO 212: 4
- AUTO 214: 1
- AUTO 230: 1
- Business Elective: 3
- Humanities Elective: 3
- Social Science Elective: 3

* Fulfill writing intensive requirement.
**Other four credit hour laboratory science courses may be substituted with permission of the advisor from a list of approved course offerings.

**Additional Graduation Requirements**
- Students must complete 11 credit hours that include AUTO 113, AUTO 114, AUTO 213, and AUTO 214 at SUNY Canton. Student’s transfer records must be reviewed and approved by the Program Director.
**Students In This Major:**
- Obtain a viable business background for immediate employment and/or transfer to a four-year program.
- Learn principles of business, accounting, and economics.

**Career Opportunities:**
- Assistant Manager
- Advertising Representative
- Sales Representative
- Supervisor
- Customer Service Representative

**Career Outlook:**
- With the importance of technology in the global economy, business positions are anticipated to increase.

**Recent Employers Of SUNY Canton Graduates:**
- Community Bank
- Consumer Marketing Service
- Wal-Mart
- Ward Real Estate
- American Red Cross
- Malone Telegram
- Self-employed (oil company)
- J. Riggings
- Kaman Industrial Technologies
- C. E. Brooks Investments
- New York State
- Mid-Valley Oil Company
- Cohoes Fashions

**Transfer Opportunities:**
- Eligible students may enroll in one of SUNY Canton's four-year business or management programs.

**Admission Requirements:**
- Students must be prepared to take Expository Writing (ENGL 101).

**Program Requirements:**

**AS Degree - Transfer Program (Curriculum 0671)**

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>Foundations of Financial Accounting</td>
</tr>
<tr>
<td>BSAD 201</td>
<td>Business Law</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing</td>
</tr>
<tr>
<td>FYEP 101</td>
<td>First Year Experience***</td>
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<tr>
<td>Mathematics* (GER 1)</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Semester II**

| ACCT 102  | Foundations of Managerial Accounting | 3 |
| CITA 110  | Intro. to Information Technology | 3 |
| ECON 103  | Microeconomics | 3 |
| Humanities Elective (GER 7) | 3 |
| Mathematics* (GER 1) | 3-4 |
| **Total** | | 15-16 |

**Semester III**

| BSAD 200  | Business Communications** | 3 |
| BSAD 201  | Business Law | 3 |
| Program Elective | | 3 |
| Science Elective (GER 2) | 3-4 |
| Mathematics* (GER 1) | 3-4 |
| **Total** | | 15 |

**Semester IV**

| Program Elective | | 3 |
| Program Elective | | 3 |
| Science Elective (GER 4, 5, 6, 8, 9) | 9-10 |
| **Total** | | 15-16 |

*College Algebra (MATH 121), Survey of Mathematics (MATH 111), Calculus (MATH 161), and Statistics (MATH 141).

**Fulfills writing intensive requirement.

***Required for all Freshmen

**AAS Degree (Curriculum 632)**

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ACCT 101</td>
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<tr>
<td>BSAD 100</td>
<td>Intro. to Business</td>
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</tr>
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<td><strong>Total</strong></td>
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</tbody>
</table>

**Semester II**

| ACCT 102  | Foundations of Managerial Accounting | 3 |
| CITA 110  | Intro. to Information Technology | 3 |
| ECON 103  | Microeconomics | 3 |
| Humanities Elective (GER 7) | 3 |
| Mathematics* (GER 1) | 3-4 |
| **Total** | | 15-16 |

**Semester III**

| BSAD 200  | Business Communications** | 3 |
| BSAD 201  | Business Law | 3 |
| Program Elective | | 3 |
| GER (2, 4, 5, 6, 8, 9) OR General Electives | 6 |
| **Total** | | 15 |

**Semester IV**

| FSMA 210  | Introduction to Finance | 3 |
| Program Elective | | 6 |
| General Elective | | 3 |
| Ger (2, 4, 5, 6, 8, 9) OR General Elective | 15 |

*Intermediate Algebra (MATH 106), College Algebra (MATH 121), Survey of Mathematics (MATH 111), Calculus (MATH 161), Math of Finance (MATH 108), and Statistics (MATH 141).

**Fulfills writing intensive requirement.

***Required for all Freshmen

**GER** = General Education Requirement

**Program Electives:** ACCT, BSAD, ECON, FSMA, LEST, or MINS

**Student Learning Outcomes** can be found at www.canton.edu/business/bus_admin.html.
Graduates of the Civil Engineering Technology program receive the Associate of Applied Science degree which enables them to go directly to work or transfer into a bachelor's degree program. Satisfying and well-paying career options may be primarily office-based (drafting and design) or field-based (surveying, inspection, and construction management). In addition to the wide variety of career opportunities, graduates may pursue a baccalaureate degree (Civil and Environmental Technology) at SUNY Canton or elsewhere). The technical classes feature laboratory experiences emphasizing hands-on learning.

**Students In This Major:**
- Are prepared to meet the career challenges of the civil engineering and construction industries.
- Receive extensive, practical hands-on experience in well-equipped laboratories.
- Learn computer drafting and design with AutoCAD.
- Participate with remarkable success in a national collegiate competition for building steel bridges.
- Solve problems in structural analysis and design.
- Utilize state-of-the-art surveying equipment and prepare topographic maps.
- Perform laboratory tests on concrete, steel and soil.

**Career Opportunities:**
- Structural Steel Designer, Drafter, Estimator
- Surveyor
- Construction Superintendent
- Construction Inspector
- Materials Technician
- Environmental Technician
- Industrial Sales Representative
- Residential/Commercial Contractor
- General Contractor

**Career Outlook:**
- Nearly 100% of graduates willing to relocate/travel are able to establish
- civil engineering or construction-related careers that offer opportunity for advancement.
- Those who obtain a bachelor's degree can expect additional opportunity and reward.

**Recent Employers Of SUNY Canton Graduates:**
- NYS Department of Transportation
- Atlantic Testing Laboratories
- CIVES Steel Corp.
- C & S Cos. General Contracting
- Northeast Construction Services, Inc.
- Bette and Cring Construction Group
- NC Dept. of Transportation
- Advanced Testing Labs
- Barrett Paving
- Northland Construction
- Army Corps of Engineers
- Stebbins Engineering

**Transfer Opportunities:**
- SUNY Canton (Civil & Environmental Technology BTech)
- SUNY Utica/Rome (Civil Engineering Technology-BCET)
- SUNY ESF at Syracuse University (BS - Construction Management)
- Rochester Institute of Tech. (BCET)
- SUNY Alfred (BET - Surveying, Construction Management)

**Admission Requirements:**
- Students must be qualified to enter Pre-Calculus Algebra (MATH 123)

**Program Requirements:**

*(Curriculum 0517)*

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<td>College Physics I</td>
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<td>Physics Lab I</td>
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<td>Technical Statics</td>
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<td>II</td>
<td>ENGL 102</td>
<td>Oral and Written Expression</td>
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<td>SOC 116</td>
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<td>III</td>
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<td>IV</td>
<td>SOET 116</td>
<td>Intro to Spreadsheets</td>
<td>4</td>
</tr>
<tr>
<td>IV</td>
<td>CONS 233</td>
<td>Structural Drafting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Graduation Requirements**
- Students transferring a significant number of credits from outside must complete the designated “Capstone” course at SUNY Canton, and the student’s transfer records must have been reviewed and approved by the CET Program Director.

**ACADEMIC REQUIREMENTS:**
- Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202 – Telephone (410) 347-7700.

**Students who do not meet the recommended high school math prerequisites may still be admitted to the College, but completing the program may require more than two years.**
Computer Information Systems—AAS

Computer Information Systems (CIS) students develop abilities for working with computer systems, databases, networks, and web development. Qualified graduates also have the opportunity of completing a four-year program in Information Technology with two additional years of study earning a Bachelor of Technology degree.

**Students In This Major:**
- Develop the knowledge and experience for a successful career in the computer industry.
- Develop teamwork skills throughout the program.
- Enhance their skill sets by opportunities to electives of interest.
- Acquire hands-on experience in small, well-equipped laboratories.
- Work with qualified faculty in small class sizes solving real-world problems.

**Career Opportunities:**
- Junior Programmers
- Network technician/administrator
- Systems Manager
- Technical Representative
- Web Developer
- Help Desk Manager

**Career Outlook:**
- Computer Information Systems is expected to continue as a strong growth area for career opportunities.

**Recent Employers Of SUNY Canton Graduates:**
- SUNY Canton
- Clarkson University
- Fused Solutions
- Canton-Potsdam Hospital
- St Lawrence-Lewis County BOCES
- Eclipsys
- IBM
- Corning, Inc.

**Transfer Opportunities:**
- SUNY Canton: Information Technology and Industrial Technology Management
- SUNY Plattsburgh: Information Technology

**Admission Requirements:**
- Students must be qualified to enter at least Intermediate Algebra (MATH 106) and Oral and Written Expression (ENGL 102).
- High school chemistry and physics courses are recommended.
- High school computer technology courses are strongly recommended.
- Transfer students must have a minimum of 2.5 GPA.

*Students who do not meet necessary prerequisites may be admitted to the college. However, completing the program may require more than two years.*

**Program Requirements:**

*(Curriculum 0581-01)*

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<th>Semester I</th>
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<td>BSAD 100</td>
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<tr>
<td>CITA 163</td>
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<tr>
<td>CITA 152</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>3</td>
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<tr>
<td>Mathematics Elective</td>
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<thead>
<tr>
<th>Semester II</th>
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<td>3</td>
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<tr>
<td>CITA 171</td>
<td>3</td>
</tr>
<tr>
<td>CITA 202</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 104</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Semester III</th>
<th>Credits</th>
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<tbody>
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<td>CITA 220*</td>
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<td>ACCT 104</td>
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<tr>
<td>ECON 101</td>
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<td>ECON 103</td>
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<table>
<thead>
<tr>
<th>Semester IV</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CITA 250</td>
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<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

*Fulfills writing intensive requirement.*

**NOTE:** Computer Information Systems students must successfully complete the SUNY Canton computer competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/coet/com_inf_sys.html.

Although there are several modern well-equipped computer labs on campus, it is expected each student has a personal computer.

1. Any CITA course presented for meeting degree requirements must have a grade of at least C (or transfer credit). No more than 3 CITA credits with a course number below CITA110 may receive credit towards graduation.

2. CIS minimum requirement is MATH 106 Intermediate Algebra, MATH 121 College Algebra and MATH 141 Statistics are required n B. Tech. IT Program.

3. A general elective is any course for which the student has the appropriate prerequisites; see note 1 above however.

4. Students pursuing a baccalaureate degree should select courses from the following GER areas when feasible. GER 2 Science (CHEM 107/108 Investigative Chemistry/ Lab recommended). GER4 American History; GER 5 Western Civilization; GER 6 Other World Cultures; GER 7 Humanities; GER 8 The Arts; or GER 9 Foreign Language.

5. Program Electives are from Canino School of Engineering Technology, or the Business Department (including ACCT 102). Students who plan to pursue the B.Tech. in Information Technology should include CITA 180 Introduction to Programming, CITA 204 Systems Analysis and Design, and CITA 215 Database Systems with Web Applications.

6. ACCT 101 Foundations of Financial Accounting is recommended for students interested in accounting or a business minor or major. MATH121 College Algebra is the lowest level mathematics course accepted in the B. Tech. Information Technology major.

7. Students interested in pursuing the B.Tech. IT degree should choose the social science course General Education Requirement areas 4, 5 or 6.

**Additional Graduation Requirements**

Each CITA/MINS/SOET course used to meet graduation requirements must have a grade of “C” or higher. A transfer student must complete at least two CITA/MINS/ SOET courses (six credit hours) numbered 200 or above which are applicable to the degree.
Construction Technology: Management—AAS

This program prepares students for careers in construction by blending hands-on construction skills with project planning, management and estimating. Students are also exposed to accounting, bidding, drafting, and business organization and management. Graduates with the Construction Technology: Management, AAS (Associate of Applied Science) degree have the option of completing a four-year degree with two more years of study; Industrial Technology Management (B. Tech.) is one possible track.

Students In This Major:
• Learn fundamental construction techniques through hands-on experience and classroom teaching.
• Conduct construction material testing (eg: steel, soils, concrete) using industry-standard equipment.
• Experience an academic program that blends the fields of construction, business, and management.
• Develop computer software skills, project scheduling techniques, and construction methods utilized in the management of construction projects.

Career Opportunities:
• Construction Project Manager Assistant
• Estimator
• Project Planning and Scheduling
• Construction Equipment Salesperson
• Residential Contractor
• Commercial Contractor
• Purchasing Agent
• Code Enforcement Officer
• Insurance Adjustor

Career Outlook:
• Career opportunities currently exist at all levels of the construction industry.
• Infrastructure rehabilitation should maintain the need for construction technicians and assistant project managers.

Recent Employers of SUNY Canton Graduates:
• Atlantic Testing Laboratories
• Barrett Paving Materials Inc.
• Northeast Construction Services
• C & S Companies
• Tuscarora Construction
• Jeffords Steel Inc.
• CIVES Steel
• Many local construction companies

Transfer Opportunities:
• SUNY Canton (B. Tech. in Industrial Technology Management)
• SUNY Alfred (BS, BT in Construction Management)

Admission Requirements:
• Students must be qualified to enter Applied College Mathematics (MATH 101) or Intermediate Algebra (MATH 106)

Students who do not meet the recommended high school math prerequisites may still be admitted to the College, but completing the program may require more than two years.

Program Requirements:
(Curriculum 1162)

Semester I Credits
SOET 116 Intro. to Computer Drawing ..........2
BSAD 100 Intro to Business ......................3
ENGL 102 Oral and Written Expression ..........3
MATH 101 Applied College Mathematics 1, 2 OR
MATH 106 Intermediate Algebra 2 ..........3

Semester II
CONS 111 Commercial Structures ..............3
CONS 132 Construction Drafting ............3
CITA 109 Intermediate Spreadsheets ........1
PHYS 115 Basic Physics ........................4
MATH 135 Technical Mathematics 1 OR
MATH 121 College Algebra 1 ................4

Semester III
CONS 101 Elementary Surveying ..........4
CONS 222 Construction Estimating ..........2
CONS 253 Concrete Technology ............3
BSAD 201 Business Law 1 ....................3
ACCT 104 Survey of Accounting ..........4

Semester IV
CONS 274 Construction Management .......3
CONS 294 Soil Investigation ........................3
Business or Construction Elective .........3
Humanities Elective .........................3
Soc. Science Elective .........................3

* Fulfills writing intensive requirement.
1 Two MATH sequences are available. MATH101 + MATH135, or MATH106 + MATH123 (or 121). Students who plan on pursuing education beyond this degree, should take the Algebra sequence (MATH 106 + MATH 123). Consultation with advisor is recommended.
2 A grade of C or better is required in the prerequisite MATH course in order to advance to MATH135 or MATH123.

NOTE: Construction Technology: Management students must successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/csoet/const_mgt.html.

Additional Graduation Requirements
Students must have completed a minimum of nine CONS credits at SUNY Canton. Student transfer records must be reviewed and approved by the program director.
STUDENTS IN THIS MAJOR:
• Acquire the basic knowledge of law enforcement and corrections.

CAREER OPPORTUNITIES:
• Federal Law Enforcement Agent
• Police Officer
• Probation or Parole Officer
• Corrections Officer

CAREER OUTLOOK:
• U.S. Department of Labor forecasts faster than average growth for protective service occupations through the year 2016.

RECENT EMPLOYERS OF SUNY CANTON GRADUATES:
• Federal Bureau of Investigations (FBI)
• Secret Service
• U.S. Border Patrol
• U.S. Customs
• New York State Department of Environmental Conservation
• New York State University Police
• New York State Police
• New York Department of Corrections
• Military Police of the Armed Forces
• United States Air Force
• United Parcel Service
• Pinkerton Security
• Sheriff’s Department
• Municipal Police Departments
• Vermont State Police

TRANSFER OPPORTUNITIES:
• Fifty to sixty percent of AAS graduates seek baccalaureate degrees. Most of those students remain at SUNY Canton and pursue one of our baccalaureate degrees.

ADMISSION REQUIREMENTS:
• Students must be prepared to take Intermediate Algebra (MATH 106)
• Students must be prepared to take Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102).
• Transfer students must have at least a 2.0 GPA.

PROGRAM REQUIREMENTS:
(Curriculum 0640)
Semester I
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>ENGL 101 Expository Writing</td>
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<td>ENGL 102 Oral &amp; Written Expression</td>
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<tr>
<td>CITC 110 Intro. to Information Technology</td>
<td>3</td>
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<tr>
<td>MATH 106 Intermediate Algebra1</td>
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<td>PSYC 101 Introductory Psychology</td>
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Semester II
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<td>JUST 110 Criminal Law</td>
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<td>SOCI 101 Introduction to Sociology</td>
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<td>Humanities Elective (GER 7)</td>
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<td>Natural Science w/Lab (GER 2)</td>
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EMPHASIS A: Law Enforcement
Semester III
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<td>JUST 201 Critical Issues in Crim. Justice *</td>
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<tr>
<td>JUST 209 Law Enforce. Communications</td>
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<td>American History Elective (GER 4)</td>
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Semester IV
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OR

EMPHASIS B: Corrections Professions
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<th>Course</th>
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<tbody>
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<tr>
<td>JUST 201 Critical Issues in Crim. Justice *</td>
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<td>JUST 211 Diagnostic Eval of Offender</td>
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Semester IV
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<td>PSYC 275 Abnormal Psychology</td>
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<tr>
<td>SSCI 181 Alcohol Drugs &amp; Society</td>
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EMPHASIS C: Criminal Justice Generalist
Semester III
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>JUST 111 Criminal Procedure</td>
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<tr>
<td>JUST 201 Critical Issues in Crim. Justice *</td>
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<tr>
<td>JUST 209 Law Enforce. Communications</td>
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<tr>
<td>Diagnostic Eval of Offender</td>
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<tr>
<td>American History Elective (GER 4)</td>
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SEMIESTER IV
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</table>

* Fulfills writing intensive requirement.
GER = General Education Requirement

1 Intermediate Algebra (MATH 106) is the minimum level acceptable toward AAS degree (non-transferable to a bachelor program). Survey of Mathematics (MATH 111) or College Algebra (MATH 121) is minimum for B. Tech. degrees.
2 Students planning to enter one of the bachelor’s degree programs should take a GER. These students must have seven (7) GER.

NOTE: Criminal Justice students must successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/sci_health/cj.html.
Students In This Major:

- Perform all phases of dental hygiene care, including assessment, planning, implementation, evaluation, and documentation based on accepted scientific theories and research.
- Develop skills to communicate effectively, professionally, and respectfully with their peers, the faculty, staff, other health care professionals, and their patients in the clinic and during community and professional presentations.

Career Opportunities:

- Private dental offices
- Hospital dental clinics
- Military installations
- Nursing homes, residential assisted living facilities, and rehabilitation centers
- Pharmaceutical sales
- County and state health departments
- School-based oral health programs
- Military installations
- Private dental offices

Accreditations:

- The American Dental Association (ADA) Commission on Dental Accreditation (CODA), 211 East Chicago Avenue, Chicago, IL 60611, 312-440-2547 (http://www.ada.org).
- The program is also registered with the NYS Education Department, Office of Professions.

Admissions Requirements:

- Admission is selective based on academic performance. Applicants must have a minimum grade of 75 in Regents-level chemistry, geometry/Math A plus one year; or a C grade in equivalent college-level courses. As well as a minimum C grade in Human Anatomy & Physiology I and II at the college level. The selection committee will review and rank qualified applicants beginning in early February.
- Applicants must have a high school diploma or its equivalent.
- Students entering college for the first time who have successfully completed 2 units of math and received a >75 on the Biology and Chemistry regents are encouraged to apply to the Dental Hygiene Select program. This 1 year program is designed to prepare students coming straight from high school for the AAS program. Students earning a 3.0 GPA or higher in the Select program are automatically reserved a seat in the AAS program the following year.

The Dental Hygiene associate degree program at SUNY Canton has an unsurpassed record of excellence, including:

- A 100 percent pass rate on the dental hygiene national board examination.
- A 99 percent pass rate on the dental hygiene regional clinical examination.
- A 100 percent placement rate.

Three prestigious National Community Dentistry awards.

Program Requirements:

(Curriculum 0545)

Semester I

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<thead>
<tr>
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<td>DHYG 145</td>
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<td>DHYG 155</td>
<td>Infection Control</td>
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<td>DHYG 156</td>
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<td>DHYG 140</td>
<td>Pre-Clinical Dental Hygiene Theory</td>
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<td>DHYG 141</td>
<td>Pre-Clinical Dental Hygiene</td>
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<tr>
<td>DHYG 161</td>
<td>Histology &amp; Embryology</td>
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<td>ENGL 102</td>
<td>Oral &amp; Written Expression</td>
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<td>BIOL 209</td>
<td>Microbiology</td>
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<td>DHYG 160</td>
<td>Dental Pathology</td>
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<td>DHYG 150</td>
<td>Dental Hygiene Theory</td>
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<td>DHYG 151</td>
<td>Clinical Dental Hygiene I</td>
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<td>DHYG 159</td>
<td>Dental Health Education</td>
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<td>DHYG 147</td>
<td>Head &amp; Neck Anatomy</td>
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<td>DHYG 190</td>
<td>Radiographic Interpretation</td>
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Semester III

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<td>DHYG 220</td>
<td>Periodontology</td>
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<td>DHYG 240</td>
<td>Dental Materials</td>
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<td>DHYG 241</td>
<td>Dental Materials Lab</td>
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<td>DHYG 250</td>
<td>Dental Hygiene II Lecture</td>
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<td>DHYG 251</td>
<td>Clinical Dental Hygiene II</td>
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<td>DHYG 256</td>
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<td>ANTH 102</td>
<td>Intro. to Cultural Anthropology</td>
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<td>HLTH 175</td>
<td>Nutrition</td>
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Semester IV

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<td>DHYG 221</td>
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<tr>
<td>DHYG 260</td>
<td>Community Dental Health</td>
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<tr>
<td>DHYG 270</td>
<td>Clinical Dental Hygiene III</td>
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<tr>
<td>DHYG 280</td>
<td>Ethics &amp; Jurisprudence</td>
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<td>DHYG 285</td>
<td>Sophomore Seminar</td>
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<td>Special Needs</td>
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<td>PSYC 101</td>
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<tr>
<td>SOCI 101</td>
<td>Introduction to Sociology</td>
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</table>

* Fulfills writing intensive requirement.

Note: Dental Hygiene students must successfully complete the SUNY Canton computer competency requirement.

Student Learning Outcomes can be found at www.canton.edu/sci_health/dental_hygiene/.

- A grade of “C” (75) or better is required for all DHYG courses and a grade of “C” or better is required in BIOL courses to continue in the program.
- Once matriculated into the Dental Hygiene, AAS students must complete the program within 4 years.
- A DHYG and/or BIOL course may only be repeated one time before losing matriculation in the program. A withdraw is considered one attempt. If the student fails a second time, he/she will lose matriculation in the program and will be required to apply as a new applicant. The applicant is expected to begin as a first semester freshman and will be evaluated using selection criteria.
- Students dismissed from the program must re-apply and will be evaluated using the selection criteria and will be considered on a space available basis.
- Transcripts for students wishing to transfer from another ADA accredited dental hygiene program will be evaluated on an individual basis. Students are required to provide course descriptions and a list of course requirements to aid in this evaluation. If it is determined that the course is equivalent to that offered at SUNY Canton, credit will be awarded.
- Students must attend an orientation to complete CPR certification (Health Provider Status) prior to entering DHYG 141: Pre-Clinic; and all students must complete a NYS certified child abuse course as part of DHYG 280 Ethics & Jurisprudence.
- Although the program has a patient coordinator that assists in the scheduling of patients, the Dental Hygiene student is ultimately responsible for finding new patients and treating a diverse group of patients. Students are also responsible for screening transportation to and from all off-campus clinical rotations.
- For additional information, please see the website.

Applicants for NYS licensure must be a U.S. citizen or an alien lawfully admitted for permanent residency in the U.S. The applicant must also be of good moral character. Anyone convicted of a crime or who has committed an act which raised question as to his/her moral character will be subjected to review by the State. SUNY Canton strongly encourages anyone with a prior conviction to contact the Office of Professional Discipline. Completion of coursework does not guarantee NYS License. For additional information, you can visit the NYS Education Department, Office of Professions website at www.op.nysed.gov/dent.htm.

Residency Requirement: Students must complete
Dental Hygiene II (DHYG 250/251) and Clinical Dental Hygiene III (DHYG 270)
Students In This Major:

- Participate in student teaching field-based experiences in various child care environments including: Head Start Programs, Universal Pre-K, and Kindergarten Public School Classrooms, Child Care Centers, Family Child Care Provider Homes, Nursery, and Pre-School settings.
- Enroll in a course of study offering 12 courses specific to Early Childhood Education along with general liberal arts courses leading to an Associate of Science degree.
- Take part in professional development opportunities offered through seminars, workshops and our Annual Early Childhood Conference, held every fall on our campus.
- Acquire practical experiences in our Maria Sergi Early Childhood Teacher Center.
- Prepare for rewarding careers in Early Care and Education or transfer to 4-year Early Childhood Education Programs.

Career Opportunities:

- Pre-School and Child Care Center Lead Teacher, Assistant Teacher
- Public School: Teacher Assistant
- Head Start: Lead Teacher, Asst. Teacher
- Self Employed: Child Care or Nursery School Owner
- Family Child Care Center Provider

Career Outlook:

- U.S. Department of Labor lists Child Care Worker, Elementary Teacher, and Teacher Assistant among the 30 occupations with the largest projected employment growth from 2010-2020.
- Certification requirements are increasing for Early Care and Education providers. Associate and Bachelor Degrees will be necessary to work in child care facilities and Head Start programs by 2013.

- Changes in society and the workforce demand an increase in the availability of high-quality early child care and education options for families and children from infancy to pre-kindergarten.

Transfer Opportunities:

- SUNY Cobleskill*
- SUNY Plattsburgh* (Child and Family Services)
- SUNY Oneonta (Child Development and Family Studies)
- SUNY Cortland
- SUNY Brockport

* Articulation agreements in effect.

Admission Requirements:

- Students must meet entrance requirements and be eligible for enrollment in: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102).
- Students must be eligible for enrollment in Intermediate Algebra (MATH 106) in the first semester, or be eligible for enrollment in a college-level math course (MATH 111, 115, or 121).
- Transfer students must have a minimum 2.0 GPA for admittance to the ECHD major.
- Students who do not meet ECHD admission requirements may enroll in preparatory courses. Students must pass all preparatory courses and have a minimum 2.0 GPA for admittance to the ECHD program.
- Graduates of St. Lawrence-Lewis Counties BOCES and Franklin-Essex-Hamilton Counties BOCES Early Childhood Occupations programs may be eligible for 1–6 college credits toward the Early Childhood Program at SUNY Canton.

Program Requirements:

- Students must receive a minimum 2.5 (C+) in Student Teaching Experience I (ECHD 201) to enroll in Student Teaching Experience II (ECHD 202).
- Students are required to complete courses in Identification of Child Abuse & Neglect, First Aid, and CPR.
- Early Childhood students must have evidence of a recent physical exam and updated immunizations.
- For field-based experiences (ECHD 201 & ECHD 202) students will need to arrange for transportation to their assigned placement sites.

(Curriculum 1327)

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<thead>
<tr>
<th>Semester I</th>
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<tr>
<td>ECHD 101 Introduction to Early Childhood</td>
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<tr>
<td>ENGL 101 Expository Writing</td>
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<tr>
<td>PSYC 101 Introduction to Psychology</td>
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<tr>
<td>SOCI 101 Introduction to Sociology</td>
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<tr>
<td>FYEP 101 First Year Experience</td>
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<td>Science Elect. (GER 2)**</td>
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<td>ECHD 123 Student Teaching Orientation</td>
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<td>ECHD 125 Curriculum Development</td>
<td>...3</td>
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<tr>
<td>ECHD 131 Infants and Toddlers</td>
<td>...3</td>
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<tr>
<td>ENGL 216 Children's Literature</td>
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<td>PSYC 220 Child Development</td>
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<td>Math Elective (GER 1)**</td>
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<th>Semester III</th>
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<tr>
<td>ECHD 201 Student Teaching Experience I</td>
<td>w/Seminar</td>
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<tr>
<td>ECHD 121 Wellness in Young Children</td>
<td>...3</td>
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<td>ECHD 250 Children with Special Needs</td>
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<td>SOCI 210 Sociology of the Family</td>
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<td>History Elective (GER 4, 5 or 6)</td>
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<td>ECHD 202 Student Teaching Experience II</td>
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<td>ECHD 200 Planning Prog. for Young Children</td>
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<tr>
<td>ECHD 285 Iss. &amp; Policies in Early Care &amp; Ed.*</td>
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<td>Arts Elective (GER 8)</td>
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</table>

* Fulfills writing intensive requirement.
** One college-level mathematics course (Math for Elementary Teachers or Survey of Math recommended) and one science course with a lab are required.

GER = General Education Requirement

NOTE: Early Childhood students must meet seven out of ten General Education Requirements and successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/business/early_childhood/.
The Electrical Engineering Technology (EET) program prepares students for a wide range of opportunities ranging from manufacturing and defense to power generation and computing. At completion, graduates receive the Associate in Applied Science degree and have considerable flexibility for continuing their education or commencing their career directly. Math skills and an interest in science are expected, and the student will receive extensive hands-on experience in a small class setting. Graduates can continue in the four-year EET program (B.Tech.), and will have the flexibility to take more courses in Mathematics as a minor in the Electrical Technology Bachelor’s degree program.

Students In This Major:
• Utilize their computer in all of the major courses to enhance employability upon graduation.
• Acquire hands-on experience with programmable controllers, motors, generators, electrical power systems, industrial electronics, communications, and other related areas.
• Study under experienced faculty members in small class settings.
• Are recommended to have a laptop computer during their senior year.

Career Opportunities:
More than 90% of the graduates go directly into positions like:
• Project Control Technician
• Electronic Maintenance Technician
• Production Technician
• Field Service Technician
• Systems Test Technician
• Quality Assurance Technician
• Field Project Technician
• Instrumentation Technician
• Power Technician
• Communications Technician

The demand for Electrical Engineering Technicians is immense. There simply are not enough qualified technicians entering the market place, and a large number of working technicians are approaching retirement age.

Recent Employers of SUNY Canton Graduates:
• Brookfield Power
• Noveltis
• Schlumberger
• Siemens
• National Grid
• ALCOA
• Schneider Packing Equipment
• Corning
• New York Power Authority
• IBM
• C & S Engineers, Inc.
• NYSEG
• Verizon

Transfer Opportunities:
• Rochester Institute of Technology
• SUNY Institute of Technology
• SUNY Alfred

Accreditation:
• Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202 – Telephone (410) 347-7700.

Admission Requirements:
• Students must be qualified to enter Pre-Calculus Algebra (MATH 123)
• Students who do not meet the required high school mathematics prerequisites may still be admitted to the College, but they will have to complete all mathem-

Program Requirements:
Curriculum 0699

<table>
<thead>
<tr>
<th>Semester</th>
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<td>ELEC 161</td>
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<td>Programming for Engineers</td>
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<td>ELEC 102</td>
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* Fulfills writing intensive requirement.

NOTE: Electrical Engineering Technology students must successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/csoet/elec_eng_tech/.

Additional Graduation Requirements
Students transferring in Electrical 200 level courses must complete a minimum of 12 credits of 200 level courses contained in the current Electrical Engineering Technology curriculum earning a minimum GPA of 2.0 for all such credits taken.
The Engineering Science program prepares its graduates to complete a baccalaureate engineering degree with another two years of study. Applicable areas include mechanical, electrical, civil, and aeronautical engineering. A key difference with Engineering Science, as differentiated from other programs in the Canino School of Engineering Technology, is that this program provides a strong theoretical preparation rooted in calculus for students who seek to prepare for engineering design responsibilities. Graduates perform exceptionally well when transferring to engineering schools such as Clarkson, Cornell or RPI.

**Students In This Major:**
- Complete their first two years at SUNY Canton and then transfer to a four-year engineering school to complete their baccalaureate degree.
- Interact with faculty on a daily basis because of small class sizes.
- Are accepted by most four-year engineering schools with full junior status.
- Have the benefit of SUNY Canton’s membership in the SUNY Two-Year Engineering Science Association (TYESA) of New York State. This membership assures that SUNY Canton’s Engineering Science program is rigorous and allows for smooth transfer to four-year schools.

**Career Opportunities:**
After transferring to and graduating from a four-year school, any engineering career is possible. Typical opportunities include:
- Aeronautical Engineer
- Civil Engineer
- Computer Engineer
- Electrical Engineer
- Engineering Management
- Mechanical Engineer

**Career Outlook:**
- There are favorable job opportunities for engineering-related positions.
- Employment opportunities in engineering have been good for a number of years and are expected to continue.

**Transfer Opportunities:**
In recent years, Engineering Science students have transferred to:
- Carnegie Mellon University
- Clarkson University
- Cornell University
- Florida Institute of Technology
- Northeastern University
- Pennsylvania State University
- Rensselaer Polytechnic Institute
- SUNY Binghamton
- SUNY Buffalo
- Syracuse University
- University of Massachusetts
- University of North Carolina

**Admission Requirements:**
- Students must be qualified to enter Calculus I (MATH 161)

**Program Requirements:**
*(Curriculum 0530)*
This program has been granted a SUNY General Education waiver which allows the program to require only five General Education Requirements. Care must be taken to select courses in areas which meet this requirement.

<table>
<thead>
<tr>
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<td>ENGS 101 Introduction to Engineering</td>
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<tr>
<td>CHEM 150 College Chemistry I</td>
<td>4</td>
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<tr>
<td>English (Writing)</td>
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<tr>
<td>MATH 161 Calculus I</td>
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<tr>
<td>PHYS 131 University Physics I</td>
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<tr>
<td>PHYS 125 Physics Lab I</td>
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<td><strong>Total</strong></td>
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<thead>
<tr>
<th>Semester II</th>
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<tbody>
<tr>
<td>ENGS 102 Programming For Engineers</td>
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<tr>
<td>CHEM 155 College Chemistry II</td>
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<tr>
<td>English (Literature)</td>
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<tr>
<td>MATH 162 Calculus II</td>
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<td>PHYS 132 University Physics II</td>
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<tbody>
<tr>
<td>ENGS 201 Statics</td>
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<tr>
<td>ENGS 203 Engineering Strength of Materials (optional)</td>
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<tr>
<td>MATH 263 Calculus III</td>
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<tr>
<td>PHYS 133 University Physics III</td>
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<td>PHYS 127 Physics Lab III</td>
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<tr>
<td>ENGS 202 Dynamics</td>
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<td>ENGS 205 Nature &amp; Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 263 Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103 Principles of Microeconomics</td>
<td>3</td>
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<tr>
<td>MATH 264 Differential Equations</td>
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<td><strong>Total</strong></td>
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</table>

* Fulfills writing intensive requirement.

**Note:** Engineering Science students must successfully complete the SUNY Canton computer competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/eng_sci.html.
The General Technology (GT) curriculum serves needs of entering students in three broad ways. First, its curricular breadth and flexibility allows entering students to explore across a range of technology disciplines as they seek to identify a specific concentration path of interest. Second, GT enables students transferring from other academic programs or institutions to build upon academic work already accomplished. Third, this program is appropriate for students seeking a two-year degree in an unusual area of specialization for which dedicated programs may not conveniently exist (e.g. electronic testing, project planning & scheduling, quality control, plant operations & maintenance).

Graduates of this program may pursue employment upon graduation or continue their education with the pursuit of a subsequent baccalaureate (four-year) degree with a program such as Industrial Technology Management. This broad-based program is ideal for individuals with analytical capabilities seeking to pursue a path of study that serves the individual's particular interests well.

**Students In This Major:**
- Will have the flexibility to explore career interests in various technical disciplines.
- Will be able to focus their studies within their specific area(s) of interest.
- Will develop a strengthened preparation in mathematics, science, and technology.
- Are able to build upon academic work already completed in other related areas.

**Career Opportunities:**
Employment opportunities are broad for technology and span the range of industry and commerce. Because of the broad flexibility of this program, it is important for the student and academic advisor to carefully plan the selection of program electives that will best serve the career Interests of the individual student. Opportunities in this market include:
- Manufacturing & Production
- Industrial Distribution
- Technical Sales and Services
- Pursuit of additional (four-year) education (e.g. Business, Information Technology, Industrial Technology Management)

**Admission Requirements:**
Incoming students will meet all general admission requirements as freshmen to SUNY Canton, having completed the NYS Geometry Regents or Math A plus one year. Transfer students will be evaluated individually by the program academic advisor. The mathematics requirements will ensure that entering students are prepared to commence studies at a minimum level of College Algebra (MATH 121) and College Physics I (PHYS 121).

**Program Requirements:**
*(Curriculum 2208)*

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>I</td>
<td>ENGS 101 Introduction to Engineering</td>
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<td></td>
<td>MECH 111 Computer Drafting</td>
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<tr>
<td></td>
<td>ENGL 101 Expository Writing OR</td>
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<tr>
<td></td>
<td>ENGL 102 Oral and Written Expression</td>
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<tr>
<td></td>
<td>MATH 121 College Algebra **</td>
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<td>PHYS 121 College Physics I</td>
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<thead>
<tr>
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<tr>
<td>II</td>
<td>ENGS 102 Programming for Engineers</td>
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<td>MECH 128 Electromechanical Technology</td>
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<td></td>
<td>Math Elective **</td>
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<td></td>
<td>Science Elective w/lab</td>
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<td>Math Elective **</td>
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</table>

* Fulfills writing intensive requirement.

** College Algebra (MATH 121) or equivalent, & at least one calculus course are required. Entering students who are unprepared to enroll in MATH 121 or equivalent may require extra time to graduate.

*** Program Electives are to be selected with the approval of the student’s academic advisor from the following disciplines: ACHP, AREA, ASTR, AUTO, CHEM, CITA, CONS, ENGS, ESCI, TMMA, GEOL, GMMD, MFGT, MATH, MSPT, PHYS, and SOET.

NOTE: General Technology students must successfully complete the SUNY Canton computer competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/general.html.
Students In This Major:

- Enroll in one of the Schools: School of Business and Liberal Arts; Canino School of Engineering Technology; or School of Science, Health, and Criminal Justice.
- Develop a program consistent with a specific career objective.
- Have the opportunity to explore an unknown area.
- Benefit from the knowledge and skills obtained through life experiences.
- Earn an Associates in Applied Science after 60 credits hours.
- May transfer into baccalaureate degree programs.

Career Opportunities:

Employment options are unlimited, students while working closely with an academic advisor can design their own programs.

Recent Employers of SUNY Canton Graduates:

- Burke’s Construction
- Fleet Bank
- Dine-A-Mate, Inc.
- Builders Square
- Corning, Inc.
- Claxton-Hepburn Medical Center
- Potsdam Stone and Concrete
- Morris Protective Services

Admission Requirements:

- Student should be prepared to take Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102).
- Transfer students must meet re-registration requirements.

Transfer Opportunities:

- SUNY Canton
- SUNY Potsdam, Plattsburgh, Oswego, Cortland, Geneseo, and Brockport
- State University Centers at Albany, Buffalo, and Binghamton
- Clarkson University
- Niagara University
- St. Lawrence University

Program Requirements:

(Curriculum 0688)

<table>
<thead>
<tr>
<th>Category</th>
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<td>English/Humanities</td>
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<tr>
<td>Social Sciences</td>
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<td>Natural Sciences and/or Mathematics</td>
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<tr>
<td>Applied Electives</td>
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<td>General Electives</td>
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<td><strong>Total</strong></td>
<td>60*</td>
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</table>

*All students must take a writing intensive applied elective.

NOTE: All students must successfully complete the SUNY Canton Computer Competency requirement.

Student Learning Outcomes can be found at www.canton.edu/business/individual.html.
**Students In This Major:**

- Develop a program consistent with a specific career objective or select a concentration from academic areas of humanities, social sciences or natural sciences.
- Prepare for careers in teaching, law, journalism, public administration, human services, finance, insurance, pharmacy, physical therapy, and other fields requiring an understanding of the human condition and the ability to communicate ideas.
- Graduate and continue study in such disciplines as English, education, art, drama, music, communication, economics, history, psychology, sociology, and anthropology.
- Complete all or the majority of the courses required in the first two years of a baccalaureate program in the natural and physical sciences. Graduates have successfully transferred to pharmacy and physical therapy programs.
- Have the opportunity to cross-register at SUNY Potsdam, St. Lawrence University, and Clarkson University.
- Transfer to baccalaureate programs.

**Career Opportunities:**

Employment options are unlimited, since in consultation with the academic advisor, students can design their own programs.

**Recent Employers of SUNY Canton Graduates:**

- Burke’s Construction
- Fleet Bank
- Corning, Inc.
- Claxton-Hepburn Medical Center
- Potsdam Stone and Concrete
- Morris Protective Services
- New York State Department of Social Services

**Transfer Opportunities:**

- SUNY Potsdam, Plattsburgh, Oswego, Cortland, Geneseo, and Brockport
- St. Lawrence University
- State University Centers at Albany, Buffalo, and Binghamton
- Clarkson University
- SUNY ESF
- SUNY Upstate Medical University at Syracuse

**Admission Requirements:**

- Prepared to take Expository Writing (ENGL 101)
  - NYS English Regents score ≥ 75; or
  - Verbal SAT score ≥ 420; or
  - Reading and Writing ACT scores ≥ 17; or
  - Transfer student who has already passed a college-level English course.
- Prepared to take GER Math
  - NYS Geometry Regents or Math A plus one year; or
  - Already passed Intermediate Algebra or equivalent.

**Program Requirements:**

**Degree Programs**

*(Curriculum 0250)*

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>ENGL 101</td>
<td>Expository Writing OR</td>
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</tr>
<tr>
<td>ENGL 102</td>
<td>Oral and Written Expression</td>
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<tr>
<td>FYEP 101</td>
<td>First Year Experience</td>
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<tr>
<td>Humanities (GER 7)</td>
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<td>Humanities Elective</td>
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<tr>
<td>Fine Arts OR Language (GER 8, 9)</td>
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<tr>
<td>American History (GER 4)</td>
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<tr>
<td>Western Civilization OR World History (GER 5, 6)</td>
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<td>Mathematics (GER 1)</td>
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<tr>
<td>Science (GER 2)</td>
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<tr>
<td>Math or Science</td>
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<tr>
<td>Social Science <em>(other than History)</em> (GER 3)</td>
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<td>Social Science Elective</td>
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<td>General Electives</td>
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<tr>
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<td><strong>Total</strong></td>
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<td>[61]</td>
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1 Minimum level College Algebra (MATH 141) or Survey of Math (MATH 111)
2 One science course must be a laboratory science. Two science courses minimum.
3 Minimum 12 credit hours of math/science
4 Required: One writing intensive course in a liberal arts or science discipline

**Student Learning Outcomes** can be found at www.canton.edu/business/libarts.html.
Graduates of Mechanical Engineering Technology (MET) work in a wide range of industries with a broad array of career opportunities. From manufacturing and construction to equipment testing and power generation, employment opportunities exist in production, product/system testing, quality improvement, and technical services support. The MET program is appropriate for individuals who like hands-on experience, enjoy technology, and want to use their heads. Math ability is important and students will center much of their effort on experimentation and problem solving.

**Students In This Major:**

- Learn about technologies associated with manufacturing.
- Receive a strong core preparation in math and science to facilitate success in engineering technology.
- Experience learning in an environment that closely models the workplace.
- Have the flexibility to commence their career immediately upon graduation or to continue with the pursuit of a baccalaureate degree.
- Apply the scientific and technical knowledge learned through their academic and hands-on experience at SUNY Canton combined with their own judgement to design, test, troubleshoot and improve machines, tooling, processes and information flow that serve the manufacturing industry.

**Career Opportunities:**

Typical job titles in which our graduates are employed are:

- Mechanical Engineering Technician
- Engineering Assistant
- Computer-Aided Drafting
- Designer
- Quality Management Technician
- Lab Technician
- Instructional Assistant
- Field Service Technician
- CNC operator/programmer

**Recent Employers of SUNY Canton Graduates:**

- Stature Electric, Inc.
- Corning, Inc.
- CIVES Steel Co.
- IBM
- Viking-Cives, USA
- Schneider Packaging
- Acco Brands
- Gleason Works
- Bombardier, Inc.
- Novelis
- Young and Franklin, Inc.

**Placement:**

- All graduates during the past five years have either started their careers or continued their education. Forty percent in industry, and sixty percent elected to continue their education with the pursuit of a baccalaureate degree.

**Transfer Opportunities:**

- SUNY Canton (Alternative and Renewable Energy Systems, Industrial Technology Management, Mechanical Technology)
- SUNY Utica/Rome
- Rochester Institute of Technology
- SUNY Alfred
- SUNY Buffalo

**Accreditation:**

- Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202 – Telephone (410) 347-7700.

**Admission Requirements:**

- Students must be qualified to enter Pre-Calculus Algebra (MATH 123)

Students who do not meet the recommended high school math prerequisites may be admitted; students may be admitted into Mechanical Engineering Technology upon completion of this prerequisite.

**Program Requirements: (Curriculum 0493)**

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<tr>
<th>Semester I</th>
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<td>MATH 123</td>
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<td>MECH 121</td>
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<td>PHYS 121</td>
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<td>ELEC 261</td>
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<td>Social Science Elective</td>
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<td>MECH 232</td>
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</table>

* Fulfills writing intensive requirement.
**Elective by advisement

**NOTE:** Mechanical Engineering Technology students must successfully complete the SUNY Canton Computer Competency requirement.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/mech_eng.html.

**Additional Graduation Requirements**

Students must have completed the equivalent of one full-time semester hours (12 credit hours) under the direct advisement of the program faculty, in technically specialized courses offered by the program area.
STUDENTS IN THIS MAJOR:
• Utilize the nursing process, think critically, and base patient care on evidence based practice.
• Engage in active learning.
• Develop personally and professionally.
• Upon meeting the requirements for graduation, are eligible to sit for the licensing examination to become Registered Professional Nurses.

CAREER OPPORTUNITIES:
• Hospitals and outpatient clinics
• Long-term care facilities
• Community health agencies
• Schools

CAREER OUTLOOK:
• The largest health care occupation
• There is increasing diversity in nursing employment, and projections indicate large numbers of new jobs.

TRANSFER OPPORTUNITIES:
• Graduates have a number of transfer options including: RN-MSN, RN-BSN, and BSN programs. Students may also elect to transfer into the SUNY Canton online RN-BS program.

ACCREDITATIONS:
• National League for Nursing Accrediting Commission, 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326 404-975-5000.
• Registered by the NYS Education Department, Office of the Professions.

ADMISSION REQUIREMENTS:
Admission is selective and is based on academic credentials. In order to be considered for admission, high school graduates should have a recommended high school average of 80 or higher at the time the application is submitted, or SAT score of 900 or higher, or ACT score of 21 or higher. Students transferring into the program should have a recommended cumulative GPA of 3.0 or higher at the time the application is submitted. Students must complete prerequisite courses in Biology, Chemistry, and Math. High school prerequisites include: two high school Regents math courses with a grade of 75 or above on the second NYS Regents mathematics examination, Biology or Living Environment with a grade of 80 or above on the NYS Regents exam, and Chemistry with a grade of 70 or above on the NYS Regents exam. Equivalent college-level course work: Intermediate Algebra with a final grade of C+ or higher, Introduction to Biology with a final grade of B or higher, and Introduction to Chemistry with a final grade of C or higher. Non-New York State high school graduate transcripts will be evaluated by admissions staff for leveling purposes. STUDENTS WILL NOT BE CONSIDERED FOR ADMISSION INTO THE NURSING PROGRAM UNTIL ALL PREREQUISITES HAVE BEEN MET. Prerequisite courses must have been completed within 7 years prior to program admission. The following courses must have been completed within 7 years prior to program admission with a final grade of C or higher in order to be considered for transfer: Anatomy and Physiology I and II, Microbiology. A committee will review qualified applicants beginning in early February. Students who do not meet the prerequisites may be eligible to enroll in a preparatory curriculum. Completion or admission into a preparatory curriculum does not guarantee admission to nursing.

Licensed Practical Nurses may apply for advanced standing. Please contact the nursing program for more information.

PROGRAM REQUIREMENTS:

(Curriculum 0622)

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<td>BIOL 217</td>
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<td>NURS 204</td>
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</table>

* Fulfills writing intensive requirement.

NOTE: Nursing students must successfully complete the SUNY Canton computer competency requirement.

Student Learning Outcomes can be found at www.canton.edu/sci_health/nursing/.

–CPR certification (Health Provider Status) is required prior to admission.

Students will complete clinical experiences in hospitals, long-term care facilities, and community agencies throughout Northern New York. Clinical hours may include day, evenings, and weekends. The college does not provide transportation to clinical.

–The New York State Education Department, Office of the Professions requires persons applying for licensure to answer questions related to criminal convictions and/or professional misconduct.

–Once enrolled in Fundamentals of Nursing (NURS 101), students must complete this Nursing program within four years. For extraordinary situations, permission to complete beyond four years must be granted by the Dean of the School of Science, Health, and Criminal Justice in consultation with the Nursing Department Chair.

–Of the four clinical nursing courses (NURS 101, 102, 201, and 202) only one course may be repeated one time.

–A grade of C or better is required for successful completion of all nursing courses, Human Anatomy and Physiology I (BIOL 217), Human Anatomy and Physiology II (BIOL 218), and Microbiology (BIOL 209).

–Successful completion of all corequisite courses and a semester GPA of 2.0 or better is required to continue in the program.

Residency Requirement: Students must complete SUNY Canton’s NURS 201, 202, 203, and 204 in order to meet the program’s residency requirements.
**Students In This Major:**
- Assist the Physical Therapist in implementing a plan of care, utilizing various physical therapy interventions to promote healing and restore function
- Promote health and wellness through various community education activities
- Develop professional behaviors consistent with those required to be an effective member of the health team
- Are eligible to take the National Physical Therapy Examination for the Physical Therapist Assistant after graduation

**Career Opportunities:**
- Physical Therapist Assistants work in hospitals, nursing homes, rehabilitative centers, certified home health care agencies, private practices, and schools.

**Career Outlook:**
- According to the 2012-2013 Occupational Outlook Handbook, employment for PTA’s is projected to grow much faster than average, with a 46% projected growth rate between 2010 and 2020.

**Transfer Opportunities:**
- Students have the option of continuing their studies in the college’s Bachelor of Technology program in Health and Fitness Promotion. Most physical therapy degree programs are now at the doctoral level with many requiring students to obtain a bachelors degree before applying to their graduate program. The B’Tech program may assist students in meeting admissions requirements for a graduate degree program or to enhance employment opportunities in the health and fitness field.

**Accreditation:**
- Commission on Accreditation in Physical Therapy Education 111 North Fairfax Street Alexandria, VA 22314-1488

**Program Requirements:**
Students are required to independently earn Health Care Provider CPR certification and have an annual health assessment on file with the College and clinical site prior to the start of the first semester.

To progress in the PTA curriculum a minimal grade of “C” in BIOL 217 and 75 in all curriculum courses prefixed with PHTA must be achieved.

**Curriculum 0489**

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHTA 100</td>
<td>Intro. to Physical Therapy ................3</td>
</tr>
<tr>
<td>PHTA 101</td>
<td>Fundamental PT Skills &amp; Modalities ..........3</td>
</tr>
<tr>
<td>PHTA 104</td>
<td>Clinical I ..................................1</td>
</tr>
<tr>
<td>BIOL 217</td>
<td>Human Anatomy &amp; Physiology I .............4</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing OR .......................3</td>
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<tr>
<td>ENGL 102</td>
<td>Oral and Written Expression ................3</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introductory Psychology .....................3</td>
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<table>
<thead>
<tr>
<th>Semester II</th>
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</thead>
<tbody>
<tr>
<td>PHTA 102</td>
<td>Kinesiology ................................3</td>
</tr>
<tr>
<td>PHTA 103</td>
<td>Musculoskeletal Pathologies ...............4</td>
</tr>
<tr>
<td>PHTA 105</td>
<td>Musculoskeletal Assessment Techniques ....2</td>
</tr>
<tr>
<td>PHTA 106</td>
<td>Clinical II ................................1</td>
</tr>
<tr>
<td>BIOL 218</td>
<td>Human Anatomy &amp; Physiology II ...........4</td>
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<tr>
<td>PSYC 225</td>
<td>Human Development ........................3</td>
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<table>
<thead>
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<th>Semester III</th>
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<tbody>
<tr>
<td>PHTA 203</td>
<td>PTA Seminar I * ..........................3</td>
</tr>
<tr>
<td>PHTA 204</td>
<td>Cardiopulmonary &amp; Integumentary Pathologies ..........3</td>
</tr>
<tr>
<td>PHTA 205</td>
<td>Neuromuscular Pathologies ................4</td>
</tr>
<tr>
<td>PHTA 206</td>
<td>Advanced PT Modalities ....................2</td>
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<tr>
<td>Liberal Arts Electives ..........6</td>
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<table>
<thead>
<tr>
<th>Semester IV</th>
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<tbody>
<tr>
<td>PHTA 207</td>
<td>** Clinical III ...........................7</td>
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<td>PHTA 209</td>
<td>** Clinical IV ............................7</td>
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<td>PHTA 210</td>
<td>PTA Seminar II .........................12</td>
</tr>
<tr>
<td>..........................16</td>
<td></td>
</tr>
</tbody>
</table>

* Fulfills writing intensive requirement.
** Students must be prepared to work 40 hours per week and are responsible for their own transportation, meals, and housing as needed.

NOTE: Physical Therapist Assistant students must successfully complete the SUNY Canton Computer Competency requirement prior to entering the third semester of the program.

Student Learning Outcomes can be found at www.canton.edu/sci_health/pta/.

—The NYS Education Department Office of the Professions requires persons applying for licensure to answer questions related to conviction of a crime or professional misconduct.

**Residency Requirements**: Based on residency requirements for associate degree programs, students must be matriculated in the curriculum for at least 15 hours of graded coursework. At least 12 of these credits must be prefixed with PHTA. The Program Director will determine the 12 credit requirement following a review of the student’s academic transcript.
Students in This Major:

- Work with companion animals, farm animals and common laboratory animals.
- Gain hands-on experience in small laboratory sections.
- Will be eligible to take the Veterinary Technician National Licensing Examination (VTNE) upon graduation.
- Will be eligible to take the certification examination of the American Association of Laboratory Animal Science after six months of laboratory employment.
- Perform mandatory kennel duty rotation in their senior year.
- Can transfer into the 4 year Veterinary Services Management, B.Tech. degree at SUNY Canton

Career Opportunities:

Veterinary technicians provide professional technical support to veterinarians, biomedical researchers, and other animal care specialists. Technicians may work in:

- Clinical Practice
- Animal Shelters
- Diagnostic Laboratories
- Educational Institutions
- Pharmaceutical and Research Industry
- Veterinary Supply and Equipment Sales
- Zoo/Wildlife Medicine
- State and Federal Agencies
- Farms & Stables

Career Outlook:

- In 2011, there were about ten jobs available per graduate.
- At the present time, there is a serious shortage of veterinary technicians throughout the country.

Transfer Opportunities:

- Articulation agreement with Cornell College of Agriculture and Life Sciences undergraduate program in Animal Science for any student graduating with a 3.0 average and possessing the required prerequisite courses.
- Articulation agreement with Mercy College.
- SUNY Canton (Veterinary Services Management, B.Tech.)

Time to Complete the Program:

Once enrolled in Fundamental Veterinary Nursing Skills I (VSCT 101), students must complete the Veterinary Science program within four years. For extraordinary situations, permission to complete the Veterinary Science program beyond four years may be granted by the Dean of the School of Science, Health and Criminal Justice in consultation with the Veterinary Science Program Director.

Accreditation:

- Full Accreditation—AVMA, 1931 N Meacham Rd., Suite 100, Schaumburg, IL 60173-4360, 847-925-8070

Admission Requirements:

Admission is selective and is based on academic credentials. To be considered for admission, a student must possess the following:

- Overall high school average of 75 or better
- Biology Regents exam with 75 or better
- Chemistry Regents exam with 65 or better
- NYS Geometry Regents or Math A plus one year more advanced Math with 75 or better.

Students who do not meet necessary prerequisites may enroll in a preparatory curriculum. Once a grade of 2.0 or better has been achieved in each of the prerequisites of BIOL 101 or 102, CHEM 100 & 101 or CHEM 107 & 108, and MATH 106; and an overall 2.5 grade point average has been achieved, the student may apply for admission to the Veterinary Science Technology curriculum.

A pre-exposure rabies vaccination series (3 injections) is strongly recommended for all Veterinary Science Technology students. This can usually be arranged through your local health department or personal physician.

Program Requirements:

(Curriculum 0521)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td>VSCT 101</td>
<td>Fundamental Vet. Nursing Skills I.....2</td>
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<tr>
<td>VSCT 103</td>
<td>Intro. to Animal Agriculture ..........2</td>
</tr>
<tr>
<td>BIOL 150</td>
<td>College Biology I........................4</td>
</tr>
<tr>
<td>CHEM 150</td>
<td>College Chemistry I ....................4</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing OR ..................3</td>
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<td>ENGL 102</td>
<td>Oral and Written Expression ............3</td>
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<td>First Year Experience ....................1</td>
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<tbody>
<tr>
<td>VSCT 104</td>
<td>Veterinary Office Practices ...........1</td>
</tr>
<tr>
<td>VSCT 112</td>
<td>Veterinary Clinical Pathology I ........3</td>
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<tr>
<td>VSCT 114</td>
<td>Animal Anatomy &amp; Physiology ..........3</td>
</tr>
<tr>
<td>VSCT 115</td>
<td>Fundamental Vet. Nursing Skills II ....2</td>
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<tr>
<td>VSCT 212</td>
<td>Research Animal Techniques ............1</td>
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<tr>
<td>BIOL 209</td>
<td>Microbiology ................................4</td>
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<td>Liberal Arts Elective (GER 7, 8, 9) ..3</td>
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<thead>
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<tbody>
<tr>
<td>VSCT 202</td>
<td>Veterinary Clinical Pathology II .......3</td>
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<tr>
<td>VSCT 203</td>
<td>Small Animal Medicine &amp; Therapeutic Techniques ..........3</td>
</tr>
<tr>
<td>VSCT 204</td>
<td>Large Animal Medicine &amp; Therapeutic Techniques ..........2</td>
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<tr>
<td>VSCT 205</td>
<td>Radiographic Techniques ...............2</td>
</tr>
<tr>
<td>VSCT 206</td>
<td>Anesthetic Principles ...................3</td>
</tr>
<tr>
<td>VSCT 207</td>
<td>Health &amp; Disease of Farm Animals ......3</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>VSCT 102</td>
<td>Companion Animal Behavior .............2</td>
</tr>
<tr>
<td>VSCT 210</td>
<td>Veterinary Microbiology ...............3</td>
</tr>
<tr>
<td>VSCT 211</td>
<td>Animal Hospital Practices and Procedures *........................3</td>
</tr>
<tr>
<td>VSCT 213</td>
<td>Practical Nutrition .....................3</td>
</tr>
<tr>
<td>VSCT 214</td>
<td>Veterinary Pharmacology ...............2</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introductory to Psychology .............3</td>
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<td></td>
<td>Liberal Arts Elective (GER 4, 5, 6) ..3</td>
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<td>Total Credits: 18</td>
</tr>
</tbody>
</table>

* Fulfills writing intensive requirement.

- Of the courses with the VSCT prefix, any course may only be repeated one time.

Note: Veterinary Science Technology students must successfully complete the SUNY Canton computer competency requirement.

Student Learning Outcomes can be found at www.canton.edu/sci_health/vet_tech/.

Residency Requirement: In order to graduate from the Veterinary Science Technology program, students must successfully complete the course VSCT 211 to comply with the residency requirement.
Air Conditioning Maintenance & Repair—Certificate

**Students In This Certificate Program:**

- Gain the skills to begin a career in refrigeration and air conditioning service.
- Install and service refrigeration and air conditioning equipment for residential and commercial buildings.
- Get hands-on experience in well-equipped, small laboratory sections.
- Receive one-on-one instruction from faculty who have experience in the field.

**Career Opportunities:**

- Refrigeration and Air Conditioning Contractor
- Manufacturer Representative
- Plant Maintenance Technician
- Appliance Repair Technician

**Career Outlook:**

- The construction industry continues to exhibit a demand for skilled HVAC technicians.

**Recent Employers Of SUNY Canton Graduates:**

- Refrigeration and air conditioning supply houses
- Hardware stores
- Farm supply and equipment dealers (Bulk tanks, etc.)
- Fuel companies
- Contractors

**Transfer Opportunities:**

- SUNY Canton—AAS degree programs and other certificate programs.
- Other SUNY Technology Colleges’ AAS programs.

**Admission Requirements:**

- Students are expected to have demonstrated academic success in high school and/or prior college experience.
  
  Students completing two one-year Certificate programs in the Canino School of Engineering Technology can graduate with two Certificates and an Associate in Applied Science degree by completing the requirements of the Individual Studies (Eng) AAS program while pursuing the second technical certificate.

**Program Requirements:**

*(Curriculum 1387)*

<table>
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<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACHP 103</td>
<td>Refrigeration &amp; Air Conditioning Service I..........................7</td>
</tr>
<tr>
<td>MATH 101</td>
<td>Applied College Mathematics ...................3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Oral and Written Expression .................3</td>
</tr>
<tr>
<td>CONS 151</td>
<td>Building Trades Blueprint Reading &amp; Drafting.........................2</td>
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<tr>
<td>SOET 101</td>
<td>Intro to Computer Usage for Technicians..............................1</td>
</tr>
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</table>

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<thead>
<tr>
<th>Semester II</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ACHP 104</td>
<td>Refrigeration &amp; Air Conditioning Service II ......................7</td>
</tr>
<tr>
<td>ACHP 105</td>
<td>Refrigeration System Design.................................2</td>
</tr>
<tr>
<td></td>
<td>General Electives (by advisement).....................6</td>
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<tr>
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<td>15</td>
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</table>

*Mathematics level depends on previous preparation. Students who are unprepared to enter Applied College mathematics will be first required to satisfactorily complete MATH 099 Foundation of Applied College Mathematics.

**Student Learning Outcomes** can be found at www.canton.edu/cssoet/refrig.html.

Those graduates who show sufficient interest and aptitude may qualify for entry into one of the associate degree programs.
**STUDENTS IN THIS CERTIFICATE PROGRAM:**

- Are given the opportunity to study one course at a time while still earning 13-16 college credits per semester.
- Will enhance academic skills by receiving nearly twice the usual contact hours with faculty for each class.
- Will strengthen academic areas through specially designed three-week block courses.
- Receive a background in math, English, social sciences and criminal justice.
- Are prepared for continued study in one of several programs in the Criminal Justice Department.
- Students graduate from program when courses have been completed with a minimum G.P.A. of 1.75.
- Due to intensive nature of this program, participation in sports, ROTC, etc. is prohibited during class hours.

**CAREER OPPORTUNITIES:**

- Police officer
- Correction officer
- Private security
- Crime prevention services

**TRANSFER OPPORTUNITIES:**

- SUNY Canton—AAS degree program in Criminal Justice with a minimum cumulative G.P.A. of 2.0.
- SUNY Canton—B. Tech. program in Criminal Investigation with a minimum cumulative G.P.A. of 2.5.

**ADMISSIONS REQUIREMENTS:**

- Students are expected to have demonstrated academic success in high school and/or prior college experience.

**PROGRAM REQUIREMENTS:**

*(Curriculum 1753)*

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td>JUST 101 Intro Criminal Justice ..................</td>
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</tr>
<tr>
<td>JUST 110 Criminal Law ................................</td>
<td>3</td>
</tr>
<tr>
<td>CIT1 110 Intro Information Technology ..........</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101 Introductory Psychology ..................</td>
<td>3</td>
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<tr>
<td>FYEP 101 First Year Experience .....................</td>
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<tr>
<td>ENGL 097 Intro. Acad. Reading &amp; Writing OR</td>
<td></td>
</tr>
<tr>
<td>ENGL 098 Basic Writing OR</td>
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<tr>
<td>ENGL 101 Expository Writing ....................0-3</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>JUST 105 Correctional Philosophy ..................</td>
<td>3</td>
</tr>
<tr>
<td>JUST 111 Criminal Procedure .......................</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 101 Introduction to Sociology ................</td>
<td>3</td>
</tr>
<tr>
<td>BASK 060 Freshman Seminar ..........................</td>
<td>1</td>
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<tr>
<td>MATH 100 Beginning Algebra OR</td>
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<tr>
<td>MATH 106 Intermediate Algebra OR</td>
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<tr>
<td>MATH 111 Survey of Mathematics ...................</td>
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<tr>
<td>ENGL 101 Expository Writing OR</td>
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<tr>
<td>ENGL 209 Approaches to Literature ................</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13-16</strong></td>
</tr>
</tbody>
</table>

**NOTE:** All courses will be in 3 week block format except FYEP 101 and BASK 060.

**Student Learning Outcomes** can be found at www.canton.edu/sci_health/just/proud.html.
The Electrical Construction & Maintenance (EC & M) program prepares students to work in building trades with the installation and testing of electrical power distribution and an emphasis placed on residential construction applications. Students are also introduced to commercial applications and building codes. At the successful completion of this one-year program, students will earn the EC&M certificate.

**STUDENTS IN THIS CERTIFICATE PROGRAM:**
- Install wiring systems and equipment in buildings.
- Connect electrical devices in accordance with the NEC (National Electrical Code).
- Perform routine maintenance on motors and transformers.
- Install motor control circuits.

**CAREER OPPORTUNITIES:**
- Electrical Apprentice
- Electrician
- Plant Maintenance Technician
- Electrical Supply Counter Person and Sales Support Person
- Electrical/Electronic Assembly

**RECENT EMPLOYERS OF SUNY CANTON GRADUATES:**
- International Brotherhood of Electrical Workers
- Niagara Mohawk Power Corporation
- Novelis
- Smith Building Supply
- NYSEG
- S & L Electric

**TRANSFER OPPORTUNITIES:**
- Approximately 50% of EC&M graduates choose to pursue further education full time at:
  - SUNY Canton—AAS degree programs and other certificate programs
  - Rochester Institute of Technology
  - SUNY Utica/Rome

Students completing two one-year Certificate programs in the Canino School of Engineering Technology can graduate with two Certificates and an Associate in Applied Science degree by completing the requirements of the Individual Studies (Eng) AAS program while pursuing the second technical certificate.

**ADMISSION REQUIREMENTS:**
- Students are expected to have demonstrated academic success in high school and/or prior college experience.

**PROGRAM REQUIREMENTS:**

*(Curriculum 0955)*

<table>
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<th>Semester I</th>
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<tbody>
<tr>
<td>ELEC 171</td>
<td>Elect. Constr. &amp; Maintenance I 7</td>
</tr>
<tr>
<td>ELEC 173</td>
<td>Intro. to Nat. Electrical Code 1</td>
</tr>
<tr>
<td>CONS 151</td>
<td>Building Trades—Blueprint Reading and Drafting 2</td>
</tr>
<tr>
<td>MATH 101</td>
<td>Applied College Mathematics 3</td>
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<tr>
<td>SOET 101</td>
<td>Intro Computer Usage for Technicians 1</td>
</tr>
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<tr>
<th>Semester II</th>
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<tbody>
<tr>
<td>ELEC 172</td>
<td>Elect. Constr. &amp; Maintenance II 7</td>
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<td>English (Writing) 3</td>
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<td>Sci/Tech Elective 3</td>
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<td>General Elective 3</td>
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</table>

*Mathematics levels depend on previous preparation. Students who are unprepared to enter MATH 101 will be required to first complete MATH 099 Foundation of Applied College Mathematics.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/ecm.html.

Those graduates who show sufficient interest and aptitude may qualify for entry into one of the associate degree programs.

**ADDITIONAL GRADUATION REQUIREMENTS**

While at SUNY Canton students must have completed course ELEC 172 and earn a minimum GPA of 1.75.
Health Science Career Studies—Certificate

Students in This Certificate Program:
• Receive a background in chemistry, biology, and math.
• Are prepared for rigorous health degree programs.
• Are prepared for entry-level health-related jobs.

Admissions Requirements:
• Students are expected to have demonstrated academic success in high school and/or prior college experience.

Program Requirements:

(Curriculum 1774)
Semester I

<table>
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<tr>
<th>Course</th>
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<td>MATH 100 Beginning Algebra OR **</td>
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</tr>
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<td>MATH 106 Intermediate Algebra OR **</td>
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<td>MATH 111 Survey of Mathematics **</td>
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<tr>
<td>ENGL 101 Expository Writing OR</td>
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<tr>
<td>ENGL 102 Oral and Written Expression</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101 Introduction to Biology OR **</td>
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<td>BASK 060 Freshman Seminar</td>
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Semester II

<table>
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</tr>
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<td>CHEM 100 Intro to Chemistry Lab AND ***</td>
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<td>CHEM 101 Intro to Chemistry OR **</td>
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<tr>
<td>Science Elective ***</td>
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<tr>
<td>MATH 106 Intermediate Algebra OR</td>
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<td>MATH 111 Survey of Mathematics OR</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>General Elective</td>
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</tr>
<tr>
<td>English/Humanities Elective (GER 7, 8, 9)</td>
<td>3</td>
</tr>
</tbody>
</table>

* Applied electives are limited to the health areas.
** Minimum MATH 106 with a grade of “C” required for entry into health field AAS.
*** Biology and chemistry requirements should be met before other science electives are taken. Minimum biology and chemistry with a grade of “C” required for entry in health field AAS.
–In order to apply for health curriculum, a minimum GPA may be required; and most health curricula have selective admission.

Student Learning Outcomes can be found at www.canton.edu/sci_health/health_science.html.

Dental Select

Dental Hygiene Select is an innovative program that fosters student success and facilitates admission into the College’s Dental Hygiene associate degree program and continuation into the professional-level bachelor’s degree program. Admission to dental hygiene programs is selective and the majority of students admitted to dental hygiene enter with at least one year of college. By entering the Dental Hygiene Select program, students are guaranteed admission into the two- and four-year programs (for students with a GPA of 3.0 or higher). The program starts with the first year at SUNY Canton’s main campus for students with little or no college experience.

The program is designed for high school seniors who meet the minimum entrance criteria to the associate degree program in dental hygiene, including:
• A minimum high school GPA of 80 percent.

Students in the Dental Hygiene Select Program:
• Are part of a small group engaged in learning experiences in a nurturing environment.
• Participate in job shadowing and be introduced to basic dental hygiene procedures.
• Complete basic science and liberal arts courses.
• Complete course work in infection control and medical emergencies in the dental office.

Program Requirements:

(Curriculum 1774)
Semester I

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHYG 155 Infection Control</td>
<td>1</td>
</tr>
<tr>
<td>DHYG 100 Introduction to Dental Hygiene</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 217 Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 102 Oral &amp; Written Expression</td>
<td>3</td>
</tr>
<tr>
<td>FYEP 101 First Year Experience</td>
<td>1</td>
</tr>
<tr>
<td>MATH 111 Survey of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 101 Introduction to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester II

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHYG 256 Medical Emergencies</td>
<td>1</td>
</tr>
<tr>
<td>DHYG 263 Dental Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 102 Intro to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 218 Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 101 Introduction Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

* Health certificate awarded upon successful completion of the one year Select program.

Student Learning Outcomes can be found at www.canton.edu/sci_health/dh-select/.
The Heating & Plumbing Service (H&PS) program prepares students to work in the building trades with the installation, maintenance, and repair of plumbing equipment, furnaces and boilers. Emphasis is placed on residential installation and maintenance, but students are introduced to commercial applications as well. At the successful completion of this one-year program, students earn the H&PS certificate.

**Students In This Certificate Program:**
- Learn how to install and service plumbing and heating equipment for residential and commercial buildings.
- Obtain hands-on experience in well-equipped, small laboratory sections.
- Utilize laboratories and equipment in the Air Conditioning Engineering Technology program.

**Career Opportunities:**
- Plumbing and heating contractors and supply houses
- Hardware stores

**Recent Employers Of SUNY Canton Graduates:**
- Central New York Trane
- Self employed
- Hulbert Brothers
- Griffith Oil Co.
- Armani

**Career Outlook:**
- The construction industry continues to exhibit a demand for skilled heating and plumbing technicians.

**Transfer Opportunities:**
- SUNY Canton—AAS degree programs and other certificate programs
- AAS degree programs at other colleges of technology

Students completing two one-year Certificate programs in the Canino School of Engineering Technology can graduate with two Certificates and an Associate in Applied Science degree by completing the requirements of the Individual Studies (Eng) AAS program while pursuing the second technical certificate.

**Admission Requirements:**
- Students are expected to have demonstrated academic success in high school and/or prior college experience.

**Program Requirements:**
*(Curriculum 1949)*

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONS 151</td>
<td>2</td>
</tr>
<tr>
<td>ACHP 171</td>
<td>7</td>
</tr>
<tr>
<td>English (Writing)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 101</td>
<td>3</td>
</tr>
<tr>
<td>SOET 101</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACHP 105</td>
<td>2</td>
</tr>
<tr>
<td>ACHP 172</td>
<td>8</td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

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Mathematics level depends on previous preparation; students are advised to continue mathematics coursework in both semester.

Students who are unprepared to enter MATH 101 must first satisfactorily complete MATH 099 Foundation of Applied College Mathematics.

**Student Learning Outcomes** can be found at www.canton.edu/csoet/heating.html.
Students completing the Powersports Certificate program are well prepared to commence a career in the service of motorcycles, ATVs and watercraft. SUNY Canton’s unique program continues to place graduates with manufacturers and dealers alike. This program is well suited for individuals who like to work with their hands, enjoy recreational power equipment, and desire the knowledge to service state-of-art engine technologies. At the successful completion of this one-year program, students will earn the Powersports certificate.

**Students In This Certificate Program:**
- Receive a world-class education in the power sports industry.
- Experience the latest technology in an electronics-based curriculum.
- Gain hands-on experience in well-equipped laboratories.
- Have access to obtaining Polaris/Victory service certifications.
- Continue to enjoy 100% placement in the workforce.

**Career Opportunities:**
- Power Sports Service Technician
- Service Manager
- Service Advisor
- Industrial Research and Development
- Machine Shop Technician
- Parts Manager/Owner
- Technical Representative
- Maintenance Technician
- Marine Maintenance Technician

**Career Outlook:**
- The power sports industry is one of the fastest growing fields in the service industry.
- With the impact of electronic engine management, coupled with the new clean air amendments effective 2007, the need for competent, educated technicians in this field is higher than ever.
- Career opportunities are expected to grow rapidly for those who are familiar with current technologies.

**Recent Employers Of SUNY Canton Graduates:**
- Polaris/Victory
- Retail Manufacturers
- Federal Government
- Dealerships

**Transfer Opportunities:**
- SUNY Canton Automotive Program
- SUNY IT and SUNY Oswego
- Rochester Institute of Technology
- Indiana State University
- Weber State College (Utah)

Students completing two one-year Certificate programs in the Canino School of Engineering Technology can graduate with two Certificates and an Associate in Applied Science degree by completing the requirements of the Individual Studies (Eng) AAS program while pursuing the second technical certificate.

**Admission Requirements:**
- Students are expected to have demonstrated academic success in high school and/or prior college experience.

**Program Requirements:**
*(Curriculum 1632)*

<table>
<thead>
<tr>
<th>semester I</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSPT 101</td>
<td>Motorsports Service</td>
</tr>
<tr>
<td>MSPT 130</td>
<td>Marine Propulsion Systems</td>
</tr>
<tr>
<td>AUTO 112</td>
<td>Auto. Electrical Systems</td>
</tr>
<tr>
<td>AUTO 122</td>
<td>Auto. Electrical Systems Lab</td>
</tr>
<tr>
<td>MATH 101</td>
<td>Applied College Mathematics*</td>
</tr>
<tr>
<td>English</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>semester II</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSPT 110</td>
<td>Engine and Power Transmission</td>
</tr>
<tr>
<td>MSPT 120</td>
<td>Frame and Suspension Systems</td>
</tr>
<tr>
<td>AUTO 113</td>
<td>Engine Performance I</td>
</tr>
<tr>
<td>AUTO 114</td>
<td>Engine Performance I Lab</td>
</tr>
<tr>
<td>Business Elective</td>
<td></td>
</tr>
<tr>
<td>Humanities OR Social Science Elective</td>
<td></td>
</tr>
</tbody>
</table>

Student Learning Outcomes can be found at www.canton.edu/coet/powersports/.

**Additional Graduation Requirements:**
- While at SUNY Canton, students must complete Motorsports Service (MSPT 110) and Frame and Suspension Systems (MSPT 120), earning a minimum GPA of 2.00 for these two courses.
- Students who are unprepared to enter Applied College Mathematics (MATH 101) must first satisfactorily complete Fundamentals of Applied Mathematics (MATH 099).
The SUNY Canton Practical Nursing Certificate program is based upon the beliefs that:

- Nursing care is based on a conceptual framework that is meaningful, logical, and relevant. Throughout an individual’s life cycle, there are varying needs that must be met in order to maintain stability. As an evolving being, one is influenced by biological, cultural, psychological, and social factors. When needs are threatened by the internal or external environment, the individual interacts with the environment to restore balance. As an integral part of the health care delivery system, nursing focuses on promoting, maintaining, and restoring balance on the health-illness continuum. The goal of nursing is to meet or assist with meeting biopsychosocial needs.

**Students In This Certificate Program:**

- Demonstrate responsibility to the nursing profession by attaining licensure immediately upon graduation as well as through continued learning.
- Practice within the values, framework, and legal parameters of the Licensed Practical Nurse and is accountable for the nursing care provided.
- Establish fundamental interpersonal and therapeutic communication both individually and in groups, both personally and through the use of communication technologies that contribute to improved patient outcomes.
- Collaborate with other members of the nursing team such as the Registered Nurse and unlicensed assistive personnel in providing care and in contributing to improved patient outcomes.
- Utilize assessment skills to collect client data using a standardized tool and identifies and reports deviations from the normal.
- Assist in the planning of patient care, implementation of the care plan, and reports and records findings.
- Deliver nursing care that demonstrates caring behaviors.
- Utilize a designated teaching tool to instruct individuals on topics such as basic health promotion/maintenance and self-care.
- Delegate care appropriately and in collaboration with the Registered Nurse in contributing to improved patient outcomes.

**Career Opportunities:**

- Long-term care
- Acute care
- Clinic settings

**Admission Requirements:**

Admission into the program will be selective. In order to be considered for admission, the student:

- Must possess a high school diploma and have at least a final average of 75 or a GED with minimal score of 275.
- Meet eligibility requirements in order to enter Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102).
- Having a minimal score of 60 on the ACCUPLACER Test for Reading and a minimal score of 75 on the ACCUPLACER Test for Sentence Structure
- OR
  - Having a minimal English Regents Exam grade of 75 or higher
  - Having a verbal SAT score equal to or higher than 420
  - Having a minimal reading and writing ACT score of 17
  - Completed Beginning Algebra or its equivalent with a final course grade of C or better OR the New York State Regents Biology exam with a score of 75 or better.
  - Completed Introduction to Chemistry or its equivalent with a passing grade OR the New York State High School Regents Chemistry exam with a grade of 65 or better.
  - In evaluating applicants, students who have demonstrated competences in additional math and science courses at either the college level or in high school will be given additional consideration for admission.
- Selective admission means that those students who exceed the minimal qualifications will be offered admission into the LPN certificate program first.

**Program Requirements:**

*(Curriculum 0938)*

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPNC 100</td>
<td>Drug Dosage Calc. &amp; Pharm..3</td>
</tr>
<tr>
<td>LPNC 101</td>
<td>PN Fundamentals.............8</td>
</tr>
<tr>
<td>BIOL 217</td>
<td>Human Anatomy &amp; Physiology I...4</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing OR</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Oral and Written Expression......3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPNC 102</td>
<td>PN Specialty Populations........3</td>
</tr>
<tr>
<td>LPNC 103</td>
<td>PN Medical-Surgical...............8</td>
</tr>
<tr>
<td>BIOL 218</td>
<td>Human Anatomy &amp; Physiology II...4</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology.......3</td>
</tr>
</tbody>
</table>

Students must complete all LPNC and corequisite courses with a minimal grade of C in order to graduate.

- CPR certification (Health Provider Status) is recommended prior to admission and required prior to start of 2nd semester.
- Students will complete clinical experiences in hospitals, long-term care facilities, and community agencies throughout Northern New York. Clinical hours may include day and evening hours. The college does not provide transportation to clinical sites.
- Of the two clinical practical nursing courses (LPNC 101, LPNC 103), only one may be repeated one time.
- Successful completion of all corequisite courses with a C or better and a semester GPA of 2.0 or better is required to continue in the program.

Student Learning Outcomes can be found at www.canton.edu/sci_health/practical.html.
A minor is a course sequence within an area of study providing a degree of specialization within that area, a specialty within a discipline, or a specialty integrating several disciplines. Minors will contain a balance of introductory and advanced coursework. Minors are designed to be completed within the same time frame allowed for the completion of the baccalaureate degree. A minor must be declared while the student has at least 45 credit hours left to enroll in before qualifying for graduation. After matriculating in a program, students wishing to obtain a minor shall contact the coordinator of the minor to initiate the process. A minor will consist of a minimum of 18 credit hours, at least 9 of which will be upper division courses; a minimum of 12 credit hours of a minor must be completed in courses offered at SUNY Canton. At least 9 credit hours must not be required courses in the student’s major program.

**ACCOUNTING**

The minor is available to any SUNY Canton student interested in the accounting field. This is an opportunity for students to earn a minor in accounting, regardless of their undergraduate major, and give them the basic undergraduate courses necessary to sit for the CPA exam and complete a MS in Accounting. It allows accounting transfers from community colleges to earn the minor in Accounting, complete a baccalaureate degree, and then enroll in the MS in Accountancy.

**MINOR REQUIREMENTS:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 301</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 302</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 306</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

**SELECT THREE COURSES**

Auditing and Individual Taxation are required for the CPA exam and Advanced Accounting is recommended.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 245</td>
<td>Forensic Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 310</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 335</td>
<td>Individual Taxation</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 430</td>
<td>Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 440</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 305</td>
<td>Public Budgeting and Fiscal Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 365</td>
<td>Financial Statement Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**APPLIED PHYSICS**

The Applied Physics Minor is an excellent way for students to broaden their knowledge of physics and the world around them. Students build a secondary area of expertise in support of their major discipline. This minor is applicable to all students; it is of particular interest to students majoring in science and engineering technology programs. The minor provides courses that emphasize applications of physics with hands-on projects.

**MINOR REQUIREMENTS:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 121</td>
<td>College Physics I OR</td>
<td></td>
</tr>
<tr>
<td>PHYS 131</td>
<td>University Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 122</td>
<td>College Physics II OR</td>
<td></td>
</tr>
<tr>
<td>PHYS 132</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 202</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 301</td>
<td>Introduction to Photonics</td>
<td>3</td>
</tr>
</tbody>
</table>

**SELECT TWO COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 330</td>
<td>Intro to Classical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 340</td>
<td>Electromagnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 410</td>
<td>Solid State Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 420</td>
<td>Intro to Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>AREA 320</td>
<td>Experimentation and Measurement Lab I</td>
<td>3</td>
</tr>
<tr>
<td>MECH 343</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

**CASINO MANAGEMENT**

The Casino Management Minor will give our business majors another alternative for career options. At present SUNY Canton is the only college in St. Lawrence County which offers any gaming classes as part of its curriculum. A minor in Casino Management is also an excellent supplement for persons who wish to pursue a career in the hospitality industry. This minor shall consist of a minimum of 18 credit hours, 12 of these consist of required courses. Students will have a choice of 6 elective credit hours. A minimum of 12 credit hours of the minor must be completed at SUNY Canton.

**MINOR REQUIREMENTS:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUST 105</td>
<td>Correctional Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>JUST 211</td>
<td>Diagnostic Evaluation of the Offender</td>
<td>3</td>
</tr>
<tr>
<td>JUST 215</td>
<td>Community Based Corrections</td>
<td>3</td>
</tr>
<tr>
<td>JUST 313</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUST 340</td>
<td>Legal Issues of the Penal System</td>
<td>3</td>
</tr>
</tbody>
</table>

**SELECT ONE COURSE:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUST 323</td>
<td>Multiculturalism in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>JUST 341</td>
<td>Management of Correctional Facilities</td>
<td>3</td>
</tr>
<tr>
<td>JUST 353</td>
<td>Criminal Justice Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**CORRECTIONS**

This minor will provide students, particularly those in the bachelor degree programs in Criminal Justice and Legal Studies, an opportunity to show a focus in Corrections studies on their transcript.

**MINOR REQUIREMENTS:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUST 105</td>
<td>Correctional Philosophy</td>
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<td>JUST 211</td>
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<tr>
<td>JUST 340</td>
<td>Legal Issues of the Penal System</td>
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</tr>
</tbody>
</table>

**SELECT ONE COURSE:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
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<td>Multiculturalism in Criminal Justice</td>
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<td>JUST 341</td>
<td>Management of Correctional Facilities</td>
<td>3</td>
</tr>
<tr>
<td>JUST 353</td>
<td>Criminal Justice Technology</td>
<td>3</td>
</tr>
</tbody>
</table>
ECONOMICS

The Economics minor is applicable to all students who would like to broaden their knowledge of economics. It is a common minor for students majoring in business, management and finance. It provides students with analytical and problem-solving skills in applied economics fields such as economic development, economics of crime, environmental economics, financial economics, global economy, health economics, labor economics, managerial economics, public economics, and other areas. Six courses (18 credits) must include ECON 101, ECON 103, ECON 314, and ECON 315.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 101 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 314 Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 315 Global Economy</td>
<td>3</td>
</tr>
</tbody>
</table>

SELECT TWO COURSES

Any course with an ECON designation may be used as an optional course in the minor. For students not in Finance, Principles of Banking and/or Global Finance, may be used as optional course(s) in the minor. At least one optional course must be at the upper level.

ENVIRONMENTAL TECHNOLOGY

As global awareness of environmental issues increases, the environmental sector has emerged as a leading discipline in the science and engineering fields. As the environmental market continues to grow, so does the demand for trained environmental engineers, environmental engineering technicians, and environmental scientists. The Environmental Technology minor is designed for students in complimentary disciplines to diversify their background, providing them with knowledge and skills in areas related to air, water, and soil. A minor in Environmental Technology provides students with a more in-depth understanding of environmental related standards and regulations, resource management, water and soil resources, characterization and treatment of water and soil, and field/lab techniques. The Environmental Technology minor provides a way for students to formally demonstrate competency in these areas and will make them competitive and highly sought after in today’s market.

MINOR REQUIREMENTS:

A minimum of 19 credit hours is needed to complete the minor in Environmental Technology as follows:

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONS 285 Engineering Geology OR</td>
<td></td>
</tr>
<tr>
<td>ES CI 107 Earth Science OR</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 103* Physical Geology</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONS 101 Elementary Surveying</td>
<td>4</td>
</tr>
<tr>
<td>CONS 314 Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CONS 350 Intro to GIS OR</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 340* Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>CONS 385 Hydrology and Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>CONS 386 Water Quality</td>
<td>4</td>
</tr>
<tr>
<td>CONS 387 Water and Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>CONS 388 Environmental Law</td>
<td>2</td>
</tr>
<tr>
<td>CONS 485 Solid Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>CONS 486 Soil and Groundwater Remediation</td>
<td>3</td>
</tr>
<tr>
<td>CONS 487 Water Resources, Management, and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Future courses developed by SUNY Canton’s Civil and Environmental Technology program or other related courses - will require approval by minor coordinator at SUNY Canton

*Course offered at SUNY Potsdam, through the Department of Geology

FINANCE

The Finance minor will complement the skills the student gains in his or her major discipline by providing a study of financial theory and practice associated with the allocation of financial resources in a business environment. This minor shall consist of a minor of 18 credit hours, at least half of which shall be upper division courses. A minimum of 12 credit hours of the minor must be completed in courses offered at SUNY Canton. At least 9 credit hours must not be required courses in the student’s major program.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101 Foundations of Financial Acct.</td>
<td>3</td>
</tr>
<tr>
<td>FSMA 210 Introduction to Finance</td>
<td>3</td>
</tr>
<tr>
<td>FSMA 312 Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FSMA 315 Global Investment</td>
<td>3</td>
</tr>
</tbody>
</table>

SELECT TWO ELECTIVES

(one elective must be a 400 upper level course)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD 120 Principles of Banking</td>
<td>3</td>
</tr>
<tr>
<td>ECON 314 Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 315 Financial Statement Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 315 Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>FSMA 325 Financial Compliance and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>FSMA 415 Global Finance</td>
<td>3</td>
</tr>
<tr>
<td>FSMA 420 Financial Derivatives</td>
<td>3</td>
</tr>
<tr>
<td>FSMA 422 Risk Management</td>
<td>3</td>
</tr>
</tbody>
</table>

HOMELAND SECURITY

The Homeland Security Minor is most appropriate for students in public safety disciplines wishing to enhance their credentials in this important and growing area of study. Students in health, engineering technologies, legal studies, or business may also benefit from this minor. The course of study provides a survey of the issues in Homeland Security through the lens of the history of terrorism with applied courses supporting theoretical study in the discipline. While the focus of study is the responsibility of law enforcement in Homeland Security, other disciplines will find the topics interesting and timely.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUST 101 Intro to Criminal Justice</td>
<td>OR</td>
</tr>
<tr>
<td>LEST 101 The American Legal System</td>
<td>3</td>
</tr>
<tr>
<td>JUST 303 Investigative Interviewing</td>
<td>OR</td>
</tr>
<tr>
<td>ENGL 301 Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>JUST 326 Threats &amp; Responses to Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>JUST 355 Public Safety Critical Incident Response</td>
<td>3</td>
</tr>
<tr>
<td>JUST 375 Methods of Terrorism Through the Ages</td>
<td>3</td>
</tr>
<tr>
<td>LEST 375 Law of Immigration &amp; Border Control</td>
<td>3</td>
</tr>
</tbody>
</table>
MANAGEMENT INFORMATION SYSTEMS

The Management Information Systems Minor offers students the opportunity to broaden their disciplinary program with material and skills widely useful in the business world. Information technology has been the driving force behind the new economy. It has enabled companies to make tremendous strides in productivity, opened new markets and channels, and created new products and services. While one part of the information revolution has been advances in hardware and software, another major advance has been in how information is organized and used to make effective decisions. This program helps students to broaden their exposure to information technology and its use in business and industry.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINS 300 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MINS 305 Customer Relationship Management</td>
<td>3</td>
</tr>
<tr>
<td>MINS 315 Decision Support Systems</td>
<td>3</td>
</tr>
<tr>
<td>MINS 425 Enterprise Resource Planning</td>
<td>3</td>
</tr>
<tr>
<td>MINS 430 Data and Knowledge Management</td>
<td>3</td>
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</table>

SELECT ONE COURSE

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD 345 Technological Innovations and Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 372 E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 373 International Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 375 Leadership and Change</td>
<td>3</td>
</tr>
<tr>
<td>CITA 330 Emerging Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CITA 400 Quantitative Approaches to Management</td>
<td>3</td>
</tr>
<tr>
<td>CITA 460 Information Technology and Networked Economy</td>
<td>3</td>
</tr>
</tbody>
</table>

MARKETING

MANAGEMENT

The Marketing Management Minor provides a path for students who wish to expand and enhance their marketing skillset. The areas of focus include: advertising and promotion, retail management, and sales. Students have the opportunity to customize their minor by selecting two elective courses. The Marketing Management Minor may be paired with any degree program offered at SUNY Canton, though it is best suited for business and finance majors. Students are encouraged to enroll in the minor as early as possible to ensure efficient pairing of the Marketing Management Minor with the student’s respective major.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD 220 Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 222 Principles of Selling</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 325 Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 350 Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

SELECT TWO ELECTIVES

(One elective must be a 300/400 upper level course)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD 201 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 225 Advertising &amp; Promotion</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 330 Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 352 Sports Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 372 E-Commerce</td>
<td>3</td>
</tr>
</tbody>
</table>

MATHMATICS

The study of mathematics develops the logic and reasoning skills that provide the tools for making decisions, interpreting observations, explaining natural phenomena, and solving problems. The Mathematics Minor provides a way for students to formally demonstrate competency in using mathematics. The minor is important for prospective employers and for use when students consider a transfer to other educational institutions. The Mathematics Minor is an important tool for the growing number of technology and business 4-year programs.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 141 Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 161 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 162 Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

SELECT THREE COURSES

(at least 2 must be MATH designated)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 263 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 264 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 361 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 351 Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371 Graph Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

*Business, computer, engineering, physics courses in which mathematics plays a significant role may be selected with approval by the mathematics department.

VETERINARY SERVICES MANAGEMENT

The Veterinary Services Management Minor provides students with an interest in Business and/or Veterinary Technology with a background in Business and Accounting, then turns the focus to Veterinary Management specifically. This Minor allows students with the desire to manage a veterinary clinic or other animal care facility to prepare themselves to undertake a position in this area of management.

MINOR REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101 Foundation of Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BSAD 201 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BSAD 310 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>VSCT 104 Veterinary Office Practices</td>
<td>1</td>
</tr>
<tr>
<td>VSCT 301 Veterinary Hospital Management I</td>
<td>3</td>
</tr>
<tr>
<td>VSCT 302 Veterinary Hospital Management II</td>
<td>3</td>
</tr>
<tr>
<td>VSCT 401 Issues &amp; Perspectives in Veterinary Medicine</td>
<td>3</td>
</tr>
</tbody>
</table>
## Women's Studies

The Women's Studies Minor is committed to broadening women's and men's knowledge and awareness of issues concerning or related to women. From an interdisciplinary approach, the minor provides a variety of courses that emphasize the female experience from both national and global perspectives.

### Minor Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 201 Intro to Women's Studies</td>
<td>3</td>
</tr>
<tr>
<td>WMST 401 Capstone Proj. in Women's Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select Four Courses**

- ENGL 330 Women in Literature ...............3
- HIST 204 U.S. Immigration History Through Race, Class and Gender ...........3
- HIST 304 U.S. Women's History ................3
- SOCI 305 Gender in the Media ..................3
- SOCI 313 Women and Aging .......................3

## Writing and Communication

The Minor in Writing and Communication trains students in the communication skills sought by employers and necessary for responsible citizenship. The coordinator will work with you to tailor a minor appropriate to your degree program, career plans, and personal interests.

Students will take a minimum of six of the courses designated below, with at least one course from each of the three areas:

### Minor Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
</table>
| ENGL 202 Creative Non-Fiction ................3
| ENGL 221 Creative Writing .....................3
| ENGL 310 Writing Your Life: Form & Function in Memoirs ..................3

### Humanities

- ENGL 202 Creative Non-Fiction ...............3
- ENGL 221 Creative Writing ....................3
- ENGL 310 Writing Your Life: Form & Function in Memoirs ..................3

- HUMA189 Acting and Improvisation .............3
- HUMA 201 Art History B.C. to the Renaissance 3
- HUMA 202 Art History Renaissance to Present 3
- SPCH 104 Introduction to Speech .............3

### Visual Communication/New Media

- GMMD 102 Introduction to Design .............3
- GMMD 409 Issues in New Media Journalism ....3
- CITA 112 Introduction to Electronic Presentations ..................1

### Business/Professions

- BSAD 340 Management Communications ..........3
- ENGL 301 Professional Writing and Communication ..................3
- ENGL 309 Journalism ...........................3
- LEST 330 Legal Writing .........................3
Other Programs

Police Academy Program

Ways in Which One May Enter the Academy:

• Become a full-time student at SUNY Canton and enroll in the Criminal Justice curriculum with the Police Academy curriculum coordinator. The Academy is currently offered in the spring semester only. The Academy is worth up to 12 college credits toward the associate degree in Criminal Justice and 15 college credits toward the bachelor degree in Criminal Investigation or Law Enforcement Leadership for all full-time tuition-paying cadets.

• Be hired and sworn as a full-time police officer of a law enforcement agency.

• Be sworn in as a part-time police officer and carried on the Workmen’s Compensation of the employing police agency.

• Enroll as a non-degree student in Pre- Employment for Basic Course for Police Officers.

* Attending SUNY Canton is not a guarantee that you may attend the Police Academy. Entry is competitive, space is limited, and applicants must meet all entry requirements.

Academics:

Student cadets must meet admissions requirements for full-time students and must have the approval of the Academy Director.

Application:

The application and all forms (available at www.canton.edu/academy) must be completed and returned to the Director of the Police Academy at SUNY Canton. A statement of physical fitness, signed by a physician, must accompany the application. Application for spring enrollment in the Academy should be submitted by October 1. Any deception on the application is grounds for rejection. A thorough background investigation may be conducted on the applicant after completing an oral interview by the Academy Board of Directors.

An applicant may not be admitted to the Academy if the investigation discloses unsuitability for a law enforcement career due to criminal behavior, alcohol or controlled substance abuse, poor driving record, lack of integrity, inappropriate financial problems, or other evidence of a bad attitude. Applying to the Academy is no guarantee of acceptance. If you realize you are not acceptable for hiring as a police officer, do not apply to the Academy. In case of doubt as to your suitability, ask your local police chief.

Interview:

The applicant will undergo at least one interview conducted by the law enforcement executives of the county. This interview will be conducted prior to completion of the background investigation and determines whether or not the applicant is accepted into the Academy.

Physical Fitness:

Physical fitness should be a lifelong goal of a law enforcement officer and is stressed in the Academy. In order to be admitted to the Academy, the cadet must pass the current Cooper testing standards for police officers. If you know you are out of shape, do not wait until the Academy starts to begin to correct the condition.

Medical Fitness:

You must be medically fit to be a police officer. Individual police departments determine what is acceptable in regard to eyesight and injuries, such as trick knees and shoulders. It is your responsibility to obtain medical certification that you are fit to perform the physical training in the Academy. It is your responsibility to determine if your eyesight and any disabilities disqualify you from being hired as a police officer. In case of doubt, ask your local police chief.

Graduation from the Academy is not a guarantee of a job in law enforcement. You must still meet all the criteria of the hiring law enforcement agency (i.e. score well in the civil service exam and be medically and morally fit).

If you are not hired within two years, you may have to take the refresher course. The Academy will not substitute for the State Police, Environmental Conservation, or Park Police academies, or the academies of larger municipalities such as New York City, however your chances of employment are increased by successfully completing the Police Academy. The Academy curriculum and instructors are approved by the New York State Department of Criminal Justice Services.

If you fail in the Academy either academically, physically, or through insufficient attendance, college policies regarding refunds apply. Pre-employment Phase 1 Cadets will not be certified as Police Officers by the State and/or College. If you are in the Academy for college credit and fail, the Criminal Justice curriculum coordinator will evaluate the work completed for credit on a case by case basis.

The Academy information along with the application form can be obtained from the college website: www.canton.edu/academy.
UNIVERSITY OF NEW YORK-CANTON

ENVIROMENTAL SCIENCE AND FORESTRY — Two-Plus-Two Articulation Agreement with SUNY ESF

SUNY Canton participates in a cooperative program with the SUNY College of Environmental Science and Forestry (ESF). By providing most of the required courses needed at ESF, this effort insures an easy transition into a student's junior (3rd) year at the College. SUNY Canton graduates attending ESF compete extremly well with students from other colleges.

Students enrolled in this program receive an AA degree in Liberal Arts and Sciences: General Studies. A student attending SUNY Canton is able to obtain all the necessary required courses for the various pre-environmental programs during two years.


Students interested in this program need to apply for the Liberal Arts and Sciences: General Studies (Curriculum 0250) program. Call the Office of Admissions 315-386-7123/800-388-7123 for further details.

Some curricula may require cross-registration to complete requirements.

FOREST TECHNOLOGY — One-Plus-One Articulation Agreement with SUNY ESF

SUNY Canton participates in a cooperative one-plus-one program with the Ranger School at the SUNY College of Environmental Science and Forestry at Wanakena. Students who select this career goal complete one year at SUNY Canton and one year at Wanakena, where they will choose between two academic concentrations, Surveying or Forest Technology. The degree of Associate in Applied Science is awarded upon graduation from SUNY College of Environmental Science and Forestry. Graduates are prepared to seek career positions as forest technicians, surveyors, and forest rangers.

Students pursuing this program are admitted to SUNY Canton for the first year of enrollment and application must be made prior to SUNY Canton or during the first semester of enrollment at SUNY Canton.

ADMISSIONS REQUIREMENTS:
• Prepared to take College Biology I
– NYS Regents Biology score ≥ 75; or
– Already passed Intro. to Biology or Introduction to Human Biology
• Prepared to take at least Intermediate Algebra

The following is the recommended first-year course of study for transfer to SUNY College of Environmental Science and Forestry at Wanakena.

(Curriculum 0620)

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 100</td>
<td>College Biology I ........................................ 4</td>
</tr>
<tr>
<td>ECON 100</td>
<td>Principles of Macroeconomics .......................... 3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Expository Writing ......................................... 3</td>
</tr>
<tr>
<td>General Elective* ..................................</td>
<td>3</td>
</tr>
</tbody>
</table>

* HIST 103 or HIST 105 strongly recommended as a General Elective

Semester II

| BIOL 155 | College Biology II ........................................ 4 |
| ENGL 202 | Creative Non-Fiction OR Writing Intensive English ........ 3 |
| MATH 121 | College Algebra OR Pre-Calculus Algebra .......... 16-17 |
| MATH 123 | Pre-Calculus Algebra OR General Elective ........ 16-17 |

Students interested in the Surveying Option take MATH 106 in Semester I and MATH 123 in Semester II (or MATH 123 in Semester I); and PHYS 121 with PHYS 125 as an elective in Semester I and ECON 101 in Semester II.

Students planning to continue in the B.S. degree program in Forest Resources Management after earning an A.A.S degree in Forest Technology take ENGL 101, BIOL 150, CHEM 150, PHYS 121 with PHYS 125 and MATH 121 in first semester; ENGL 221, BIOL 155, MATH 161, HIST 105 and ECON 101 in second semester.

UPSTATE MEDICAL UNIVERSITY EARLY ADMISSION PROGRAM — Joint Admission with SUNY Upstate Medical University at Syracuse

Upstate Medical University Early Admissions Program is an early admission program for high school seniors who excel in math and science and are committed to careers in the health professions. Students accepted into the program are guaranteed admission into an upper division bachelor/master’s degree program at the SUNY Upstate Medical University at Syracuse after attending their first two years at SUNY Canton and completing all admission requirements.

The Upstate Medical University Early Admissions programs are:
• Cardiovascular Perfusion, BS
• Medical Biotechnology, BS
• Medical Technology, BS
• Medical Imaging Sciences, BS or BPS
• Physical Therapy, DPT
• Respiratory Care, BS
• Radiation Therapy, BS or BPS

Interested students need to apply for Liberal Arts and Sciences: General Studies (Curriculum 0250) program. Call the Office of Admissions 315-386-7123 or 800-388-7123 for further details.

NOTES:
— All science courses must include laboratories.
— Upstate Medical University Early Admissions Program students are required to complete the associate degree and all requirements outlined in the program acceptance letter.
— Accepted students must demonstrate leadership qualities by getting involved in extracurricular activities at SUNY Canton.
This course examines the application of the natural science and technology of behavior to improvements both in knowledge of parenting and in child rearing skills. The range of advances in behaviorologically-based child rearing practices discovered since the 1950’s is covered after reviewing scientifically uninformed practices used earlier. Behavior management-related skills for application in everyday public and personal situations involving children and their caregivers is included. Three hours lecture per week.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABAP</td>
<td>Applied Psychology</td>
<td>110</td>
</tr>
<tr>
<td>ACCT</td>
<td>Accounting</td>
<td>112</td>
</tr>
<tr>
<td>ACHP</td>
<td>Air Conditioning</td>
<td>113</td>
</tr>
<tr>
<td>ANTHER</td>
<td>Anthropology</td>
<td>115</td>
</tr>
<tr>
<td>AREA</td>
<td>Alternative and Renewable Energy Systems</td>
<td>115</td>
</tr>
<tr>
<td>ARTS</td>
<td>Arts</td>
<td>116</td>
</tr>
<tr>
<td>ASTR</td>
<td>Astronomy</td>
<td>116</td>
</tr>
<tr>
<td>AUTO</td>
<td>Automotive</td>
<td>117</td>
</tr>
<tr>
<td>BASK</td>
<td>Academic Development</td>
<td>118</td>
</tr>
<tr>
<td>BIOL</td>
<td>Biology</td>
<td>118</td>
</tr>
<tr>
<td>BSAD</td>
<td>Business/Management</td>
<td>120</td>
</tr>
<tr>
<td>CHEM</td>
<td>Chemistry</td>
<td>123</td>
</tr>
<tr>
<td>CITA</td>
<td>Computer</td>
<td>124</td>
</tr>
<tr>
<td>CONS</td>
<td>Civil/Construction</td>
<td>127</td>
</tr>
<tr>
<td>DHYG</td>
<td>Dental Hygiene</td>
<td>131</td>
</tr>
<tr>
<td>EADM</td>
<td>Emergency Management</td>
<td>134</td>
</tr>
<tr>
<td>ECHD</td>
<td>Early Childhood</td>
<td>135</td>
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<tr>
<td>ECON</td>
<td>Economics</td>
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<td>EDUC</td>
<td>Education</td>
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<td>ELEC</td>
<td>Electrical</td>
<td>137</td>
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<tr>
<td>ENGL</td>
<td>English</td>
<td>140</td>
</tr>
<tr>
<td>ENGS</td>
<td>Engineering Science</td>
<td>144</td>
</tr>
<tr>
<td>ESCI</td>
<td>Environmental Science</td>
<td>144</td>
</tr>
<tr>
<td>ESOL</td>
<td>English as a Second Language</td>
<td>145</td>
</tr>
<tr>
<td>FREN</td>
<td>French</td>
<td>145</td>
</tr>
<tr>
<td>FSAD</td>
<td>Funeral Services</td>
<td>145</td>
</tr>
<tr>
<td>FSMA</td>
<td>Finance</td>
<td>146</td>
</tr>
<tr>
<td>FYEP</td>
<td>First Year Experience</td>
<td>147</td>
</tr>
<tr>
<td>GEOG</td>
<td>Geography</td>
<td>147</td>
</tr>
<tr>
<td>GEOL</td>
<td>Geology</td>
<td>148</td>
</tr>
<tr>
<td>GMMD</td>
<td>Graphic and Multimedia Design</td>
<td>148</td>
</tr>
<tr>
<td>HEFI</td>
<td>Health and Fitness Promotion</td>
<td>149</td>
</tr>
<tr>
<td>HIST</td>
<td>History</td>
<td>150</td>
</tr>
<tr>
<td>HTHL</td>
<td>Health-Related</td>
<td>151</td>
</tr>
<tr>
<td>HSMB</td>
<td>Health Care Management</td>
<td>152</td>
</tr>
<tr>
<td>HUMA</td>
<td>Humanities</td>
<td>153</td>
</tr>
<tr>
<td>INTL</td>
<td>Independent Study</td>
<td>153</td>
</tr>
<tr>
<td>JUST</td>
<td>Criminal Justice/Investigation/Law Enforcement</td>
<td>153</td>
</tr>
<tr>
<td>LEST</td>
<td>Legal Studies</td>
<td>158</td>
</tr>
<tr>
<td>LPNC</td>
<td>Licensed Practical Nursing</td>
<td>159</td>
</tr>
<tr>
<td>MATH</td>
<td>Mathematics</td>
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This course introduces the contributions of the natural science of behavior to the area of animal behavior training. Students (a) learn the successful, non-coercive animal training practices, derived from the principles of behaviorology that are used by professional animal trainers around the world, and (b) learn how to teach the owners of companion animals how to train their pets. After reviewing basic principles and the significance of species differences, relevant practices are differentially applied to the pro-active, non-coercive, positive, and effective training field.
behavior training of four representative companion animal species: (a) cats, (b) dogs, (c) birds, and (d) horses. A generic application of these non–coercive practices to training other species also receives attention. Three hours of lecture per week. Prerequisites: Introduction to the Science and Technology of Behavior (ABAP 245) or Companion Animal Behavior (VSCST 102), with Human Companion Animal Bond (VSCST 100) highly recommended, or permission of instructor.

ABAP 345
APPLIED SCIENCE AND TECHNOLOGY OF BEHAVIOR
Fall/Spring, 3 credit hours

Common problematic human behaviors from a range of ordinary settings are analyzed along with the accessible independent variables of which these behaviors are a function as discovered by the natural science of behavior. Together, these are examined for prevention and solutions through the basic behavior/environment engineering applications that are derived from the basic principles and techniques of behaviorology. Also considered are (a) the historical circumstances leading to these applications, (b) the value in design over accident or chance in the control of individual behavior and cultural practices, and (c) the place of ethics in considering and solving behavior problems. Three hours lecture per week. Prerequisite: Introduction to the Science and Technology of Behavior (SSCI 245) and 30 credit hours or permission of instructor.

ABAP 365
BEHAVIOR ENGINEERING:
REHABILITATION
Fall/Spring, 3 credit hours

This course examines the application of the natural science and technology of behavior to foster improvements in human interactions and success rates in institutional rehabilitation settings such as hospitals and prisons. The scientific basis of punishment that often informs many practices in such settings is covered along with rehabilitation considerations focused on both adult and youth clients or offenders. The course takes a systematic and data-based behaviorological orientation to the organization and management of hospital or corrections personnel and institutions, and patient/prisoner rehabilitation. The development of behavior management–related knowledge and skills for application in everyday situations in institutional rehabilitation settings is an integral course component. Three hours lecture per week. Prerequisite: Introduction to the Science and Technology of Behavior (SSCI 245) or Correctional Philosophy (JUST 105), or permission of instructor.

ABAP 375
BASIC AUTISM ABA METHODS
Fall/Spring, 3 credit hours

This course examines the application of the natural science and technology of behavior to the interventions for children with autism using basic Applied Behavior Analysis (ABA) methods. Exercising a systematic and data-based behaviorological orientation, the course topics include: (a) the evaluation of different approaches for effectiveness, (b) the skills to be taught to children with autism, (c) the behavior engineering practices and skills needed to teach autistic children effectively, (d) the different roles of professionals and paraprofessionals involved in autism intervention efforts, (e) the organizational and legal supports available to autistic children and their families, (f) the roles of different autism treatment team members, (g) the organizational and legal interactions between families with autistic children and their local schools, and (h) the answers to the most common questions asked by parents of autistic children. Examination of actual autism training curricula, programs, practices, data sheets, settings, and case histories are also integral parts of the course. Three hours lecture per week. Prerequisites: for undergraduates: Introduction to the Science and Technology of Behavior (SSCI 245) with Applied Science and Technology of Behavior (SSCI 345) recommended, or permission of instructor.

ABAP 380
INTRODUCTION TO VERBAL BEHAVIOR ANALYSIS AND APPLICATIONS
Fall/Spring, 3 credit hours

Based on natural science principles and practices, this course introduces students to (a) the behaviorological analysis of verbal behavior/language, (b) the historical context in which verbal behavior analysis arose, and (c) some applications of verbal behavior analysis especially as it is applied to enhance the acquisition of verbal behavior/language, by foreign language learners or students with developmental disabilities.

Covered analysis topics include such fundamental concepts as (a) differentiating verbal and nonverbal behavior, (b) the verbal community, (c) mediated reinforcement, (d) the basic verbal behaviors called manding, tacting, intraverbals, codings, and duplcs, (e) various extensions of these elementary verbal operants, (f) the most common variables of which verbal operants are a function, (g) some of the ways these variables combine in the multiple control of complex verbal behaviors, (h) response products, (i) point-to-point correspondence, (j) formal similarity, (k) thematic and formal controls over verbal behavior and (l) the ways the verbal community teachers speaks to respond verbally to their private experiences. Three hours lecture per week. Prerequisites: Introduction to the Science and Technology of Behavior (SSCI 245) and 30 credit hours earned, or permission of instructor.

ABAP 385
ADV SCIENCE & TECHNOLOGY OF BEHAVIOR I
Fall/Spring, 3 credit hours

This first course of a two course sequence covers in detail the basic variables of which the behavior of humans and other animals is a function, as discovered from the natural science perspective and with the emphasis on increasingly complex human behavior. Included is not only the wide range of pertinent and accessible environment–behavior functional relations, but also the naturalistic philosophical foundations of the behaviorology and technology of behavior) discipline as well as the research methodology involved in discovering these independent variables in these relations and engineering them into sophisticated applications and interventions beneficial to humanity. Course topics include (a) classifying behavior, (b) avoiding explanatory fictions and analytical fallacies, (c) experimentally manipulating independent variables of behavior, (d) measuring, recording, graphing, and interpreting behavior–related data, and (e) turning the experimentation–based prediction and control of behavior into beneficial engineering practices emphasizing postcession processes. Three lecture hours per week. Prerequisites: Introduction to the Science and Technology of Behavior (ABAP 245) and 60 credit hours, or permission of instructor.

ABAP 400
SEMINAR IN APPLIED BEHAVIOR ANALYSIS
Fall/Spring/Summer, 3 credit hours, may be repeated 4 times for credit

In this course the student studies the current disciplinary applied research literature containing relevant interventions while engaging in supervised practicum hours applying the relevant behaviorological disciplinary principles and practices to interventions with clients in the practicum setting. Three lecture hours per week. Prerequisites: Applied Science and Technology of Behavior (ABAP 345) and 60 credit hours or permission of instructor. Corequisite: Practicum in Applied Behavior Analysis (ABAP 401) or permission of instructor.

ABAP 401
PRACTICUM IN APPLIED BEHAVIOR ANALYSIS
Fall/Spring/Summer, 3 credit hours, may be repeated 4 times for credit

In this course the student studies the current disciplinary applied research literature containing relevant interventions while engaging in supervised practicum hours applying the relevant behaviorological disciplinary principles and practices to interventions with clients in the practicum setting. One hundred and twenty practicum hours per semester. Prerequisites: Applied Science and Technology of Behavior (ABAP 345) and 60 credit hours or permission of instructor. Corequisite: Seminar in Applied Behavior Analysis (ABAP 401) or permission of instructor.

ABAP 415
BEHAVIORAL PATHOLOGY & DIGNIFIED DYING
Fall/Spring, 3 credit hours

With an emphasis on the terminally ill and enhancing their dignity, this course examines the application of the natural science and technology of behavior to the question of how we can improve end–of–life interactions between the dying and society, between the increasing numbers of the terminally ill and their survivors, between ourselves and our loved ones at those difficult times. The course first covers the scientific understanding of coercion and punishment as these inform many past and cur-
Course Descriptions: APPLIED PSYCHOLOGY, ACCOUNTING

rent social practices in such situations. The course then considers a range of scientifically grounded alternatives. Three hours lecture per week. Prerequisites: and maintaining the human dignity of all parties in these circumstances. Which professional group (e.g., medical doctors, hospice personnel, funeral directors, behaviorologists) might best organize these improvements and new practices is explored. The historical context, and social contingencies affecting new practices, are included in the consideration of how to move from old to new practices. Three lecture hours per week. Prerequisites: Introduction to the Science and Technology of Behavior (ABAP 245) or Human Response to Death (MORT 227), and 60 credit hours, or permission of instructor.

ABAP 455
PERFORMANCE MANAGEMENT AND PREVENTING WORKPLACE VIOLENCE
Fall/Spring, 3 credit hours
This course examines the application of the natural science and technology of behavior to the understanding, prevention, and deterrence of workplace violence, and does so on three levels: The course examines the scientific analysis of punishment as punishment informs many practices present in workplace settings that match the violence-prone profile. Next, the course emphasizes the acquisition and application of behavior management-related knowledge and skills relevant to changing the circumstances that lead to workplace violence so as to prevent its possible occurrence. Then, the course extends its systematic and data-based behavioral orientation from the understanding of workplace violence, and its prevention, to developing, comparing, applying, and evaluating policies and procedures to intervene in the dynamics, indicators, types, and triggers of workplace violence to deter its imminent occurrence. These three levels are considered for all workplaces including those in industrial/manufacturing, organizational, marketing, financial, institutional, or retail business settings. Three hours lecture per week. Prerequisites for undergraduates: Introduction to the Science and Technology of Behavior (SSCI 245) or Human Resource Management (BSAD 310) or Management Communications (BSAD 340) or Organization Psychology (PSYC 360), or permission of instructor.

ABAP 485
ADV SCIENCE & TECHNOLOGY OF BEHAVIOR II
Fall/Spring, 3 credit hours
This course covers a two course sequence covering major topics and techniques in the field of behavioral science, including (a) multi–term contingencies, (b) function–altering stimuli, (c) stimulus equivalence, (d) reinforcement schedules plus adjunctive behavior, (e) aversive controls plus more effective alternatives, (f) applied behavior research plus behavioral objectives, (g) gradual change in both stimuli (fading) and responses (shaping), (h) some complex cases (including attitudes, values, rights, ethics, morals, and beliefs), and (i) verbal behavior. A preview of the more complex disciplinary topics of consciousness, personhood, life, culture, reality, and intellectual evolution (biological and cultural) is also part of this course. Three lecture hours per week. Prerequisite: Advanced Science and Technology of Behavior I (ABAP 385), or permission of instructor.

ACCT 101
FOUNDATIONS OF FINANCIAL ACCOUNTING
Fall/Spring, 4 credit hours
Basic accounting concepts and principles for the sole proprietorship and merchandising company are introduced with a concentrated emphasis on the accounting cycle and the preparation of financial statements. Four hours lecture per week.

ACCT 102
FOUNDATIONS OF MANAGERIAL ACCOUNTING
Fall/Spring, 3 credit hours
The basic principles of accounting are continued with their application to partnerships and corporations. Topics included are inventories, depreciation, payroll, formation, operation and liquidation of partnerships and corporations. Three hours lecture per week. Prerequisite: Foundations of Financial Accounting (ACCT 101) or permission of instructor.

ACCT 103
COMPUTERIZED ACCOUNTING
Fall/Spring, 3 credit hours
Computers are a valuable tool used in the collection, formatting and distribution of data. The student will be exposed to the process and procedures of computerized data collection and reporting using a popular accounting software package. Three hours lecture per week. Prerequisites: Foundations of Financial Accounting (ACCT 101), Introduction to Information Technology (CITA 110), Foundations of Managerial Accounting (ACCT 102), or permission of instructor.

ACCT 104
SURVEY OF ACCOUNTING
Fall/Spring, 4 credit hours
This course is designed for non-business majors who need to develop an understanding of fundamental accounting principles and their application in the business environment. The content surveys both financial and managerial accounting with an emphasis placed on how the information is used in decision making and problem solving. (Course may not be used for credit in any one of the following programs: Accounting, Business Administration, Finance, Legal Studies, and Management.) Four hours lecture per week.

ACCT 242
ACCOUNTING FOR GOVERNMENT AND NONPROFIT ORGANIZATIONS
Fall/Spring, 3 credit hours
A study of governmental, not-for-profit, health-care and university entities with emphasis on fund accounting, budgets and financial reporting. Three hours lecture per week. Corequisites: Intermediate Algebra (MATH 106), Math of Finance (MATH 108), Foundations of Financial Accounting (ACCT 101) and knowledge of spreadsheets or permission of instructor.

ACCT 245
FORENSIC ACCOUNTING
Fall/Spring, 3 credit hours
Forensic Accounting is concerned with the detection and prevention of financial fraud and white-collar crime activities. This course will identify areas of financial risk, develop internal control policies and procedures, as well as define the role of the forensic accountant in the courtroom. Three hours lecture per week. Prerequisites: Foundations of Financial Accounting (ACCT 101) or Survey of Accounting (ACCT 104) or permission of instructor.

ACCT 300
INTERMEDIATE ACCOUNTING I
Fall, 3 credit hours
This 3 credit course is designed to provide the student with knowledge and skills basic to accounting theory and practice and advanced problems...
pertaining to the foundations of Financial Accounting and the Primary Activities of a Business. Major topics include: financial reporting, review of the accounting cycle, balance sheet and notes to the financial statement, the income statement, the statement of cash flows, earnings management, revenue/receivables/cash cycle, revenue recognition, inventory and cost of goods sold, and debt financing. The essential interrelationship between accounting and the activities of business is stressed throughout the course. The presentation of accounting elements necessary for business decision-making such as operating, financing, investing, earnings management and revenue recognition enhances the learning experience and prepares students for an evolving accounting profession. Accompanying accounting problems and various financial statements challenge students to develop critical thinking skills and promote core competencies. International Financial Reporting Standards are discussed when relevant to help students understand how accounting practices differ from country to country and reflect the increasingly global nature of business. Three lecture hours per week. Prerequisites: Foundations of Managerial Accounting (ACCT 102) or permission of instructor.

**ACCT 302 INTERMEDIATE ACCOUNTING II**  
*Spring, 3 credit hours*

This 3 credit course is designed to provide the student with a real world perspective that links accounting functions with the activities of business. This course focuses on how accounting is intrinsically linked to central business activities: Operating, Financing and Investing. Major topics include financing activities, investing activities, leases, income taxes, interim reporting, earnings per share, accounting changes and error correction. Intermediate Accounting II provides a thoroughly engaging and comprehensive learning experience that helps develop essential understanding, critical thinking and analytical skills. Accounting's integral importance to an organization's decision-making capabilities is stressed and accounting is presented as an essential element in business decision-making. Accompanying accounting problems and various financial statements challenge students to develop critical thinking skills and promote core competencies. International Financial Reporting Standards are discussed when relevant to help students understand how accounting practices differ from country to country and reflect the increasingly global nature of business. Three lecture hours per week. Prerequisites: Intermediate Accounting I (ACCT 300) or permission of instructor.

**ACCT 305 ACCOUNTING THEORY & PRACTICE**  
*Spring, 3 credit hours*

This course is designed to assess and reinforce the skills necessary to enter the workplace as an entry-level employee in the field of accounting. The students will maintain a complete set of books and related financial statements, through an accounting cycle, both manually and electronically. Students will use previously prepared financial statements to make informed judgments, solve problems, identify and apply ethical positions and effectively communicate this information to others both orally and in writing. Three hours lecture per week. Prerequisites/ corequisites: Intermediate Accounting I (ACCT 300), Management Communications (BSAD 340), Introduction to Information Technology (CITA 110), Introduction to Finance (FSMA 210), Intermediate Algebra (MATH 106), or Math of Finance (MATH 108), or permission of instructor.

**ACCT 308 COST ACCOUNTING**  
*Fall, 3 credit hours*

This course is designed to introduce the student to the fundamentals of data compilation and reporting which are essential to formulating and achieving management goals and objectives in both manufacturing and service enterprises. Three lecture hours per week. Prerequisites: Intermediate Algebra (MATH 106), Math of Finance (MATH 108), or permission of instructor.

**ACCT 310 ACCOUNTING INFORMATION SYSTEMS**  
*Fall/Spring, 3 credit hours*

This course will utilize an accounting software system complimented by a manual accounting information system. Heavy emphasis is placed on section 404 requirements of the Sarbanes-Oxley Act of 2002. The importance of proper documentation, internal controls, enterprise systems, and E-business sets the stage for this course. Students will prepare the necessary documents, journal entries, reconcile accounts, and prepare financial statements for an entire accounting cycle. Three hours lecture per week. Prerequisites: Foundations of Managerial Accounting (ACCT 102), or permission of the instructor.

**ACCT 315 INDIVIDUAL TAXATION**  
*Fall, 3 credit hours*

This course is designed to introduce students to the Internal Revenue Code, preparation of tax returns for individuals and small businesses. The course prepares students to participate in the IRS Volunteer Income Tax Assistance (VITA) program. Three hours lecture per week. Prerequisites: Intermediate Algebra (MATH 106) and Introduction to Information Technology (CITA 110), or permission of the instructor.

**ACCT 340 ADVANCED ACCOUNTING**  
*Fall/Spring, 3 credit hours*

This course is designed to expose the student to the vocabulary, concepts, principles, and techniques of auditing. Emphasis is placed on the use of Generally Accepted Auditing Standards and their practical application to professional standards, ethics, internal controls, legal liability, audit planning, audit evidence, audit sampling, and the production of standard reports. Three hours lecture per week. Prerequisites: Intermediate Accounting I (ACCT 300) or permission of instructor.

**ACCT 341 INTERNATIONAL ACCOUNTING**  
*Fall/Spring, 3 credit hours*

This course is designed to expose the student to the foundations of Financial Accounting and the Primary Activities of a Business. Major topics include: financial reporting, review of the accounting cycle, balance sheet and notes to the financial statement, the income statement, the statement of cash flows, earnings management, revenue/receivables/cash cycle, revenue recognition, inventory and cost of goods sold, and debt financing. The essential interrelationship between accounting and the activities of business is stressed throughout the course. The presentation of accounting elements necessary for business decision-making such as operating, financing, investing, earnings management and revenue recognition enhances the learning experience and prepares students for an evolving accounting profession. Accompanying accounting problems and various financial statements challenge students to develop critical thinking skills and promote core competencies. International Financial Reporting Standards are discussed when relevant to help students understand how accounting practices differ from country to country and reflect the increasingly global nature of business. Three lecture hours per week. Prerequisites: Foundations of Managerial Accounting (ACCT 102) or permission of instructor.

**ACCT 350 ACCOUNTING INFORMATION SYSTEMS**  
*Fall/Spring, 3 credit hours*

This course will utilize an accounting software system complimented by a manual accounting information system. Heavy emphasis is placed on section 404 requirements of the Sarbanes-Oxley Act of 2002. The importance of proper documentation, internal controls, enterprise systems, and E-business sets the stage for this course. Students will prepare the necessary documents, journal entries, reconcile accounts, and prepare financial statements for an entire accounting cycle. Three hours lecture per week. Prerequisites: Foundations of Managerial Accounting (ACCT 102), or permission of the instructor.

**ACCT 355 ACCOUNTING INFORMATION SYSTEMS**  
*Fall, 3 credit hours*

This course is designed to introduce students to the Internal Revenue Code, preparation of tax returns for individuals and small businesses. The course prepares students to participate in the IRS Volunteer Income Tax Assistance (VITA) program. Three hours lecture per week. Prerequisites: Intermediate Algebra (MATH 106) and Introduction to Information Technology (CITA 110), or permission of the instructor.

**ACCT 410 INTERNATIONAL ACCOUNTING**  
*Fall/Spring, 3 credit hours*

International Accounting is the study of an entity reported as either a multinational company or an entity whose reporting obligations to stakeholders are located in a country other than that of the reporting entity. A detailed investigation on the convergence of U.S. Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) serves as a foundation for this course. Also discussed are the effects of financial reporting, international taxation, and international financial statement analysis on a multinational reporting entity. Employing and critiquing the use of global accounting and auditing standards will integrate the student’s existing skills with domestic accounting standards. Three hours lecture per week. Prerequisites: Foundations of Managerial Accounting (ACCT 102), Intermediate Algebra (MATH 106), Principles of Macroeconomics (ECON 101), or permission of instructor.

**ACCT 430 AUDITING**  
*Fall/Spring, 3 credit hours*

This course is designed to expose the student to the vocabulary, concepts, principles, and techniques of auditing. Emphasis is placed on the use of Generally Accepted Auditing Standards and their practical application to professional standards, ethics, internal controls, legal liability, audit planning, audit evidence, audit sampling, and the production of standard reports. Three hours lecture per week. Prerequisites: Intermediate Accounting I (ACCT 300) or permission of instructor.

**ACCT 440 ADVANCED ACCOUNTING**  
*Fall/Spring, 3 credit hours*

Advanced accounting issues include the following topics: consolidations, mergers and acquisitions, governmental and nonprofit organizations, foreign currency transactions, and partnerships. Three hours lecture per week. Prerequisites: Intermediate Accounting I (ACCT 300) or permission of instructor.

**ACCT 291-295, 391-395, OR 491-495 SPECIAL TOPICS IN ACCOUNTING**  
*Fall/Spring, 1-4 credit hours*

Special Topics in Accounting will generally include topics of current interest or topics not covered in courses currently offered by the Department or in combinations not currently available. Prerequisite: permission of the instructor.

**ACHP 103 REFRIGERATION AND AIR CONDITIONING SERVICES I**  
*Fall, 7 credit hours*

The fundamentals of refrigerating and air conditioning equipment are the emphasis of this course. Students study the basic refrigerator cycle and the function of each component; compressor, condenser, evaporator and metering device. Use of hand and power tools will be stressed in laboratory work. Students will cut, bend, solder, braze, flare, and sweat copper tubing. Flowing nitrogen will be stressed during brazing operations. Four hours lecture, nine hours laboratory per week.

**ACHP 104 REFRIGERATION AND AIR CONDITIONING SERVICES II**  
*Spring, 7 credit hours*

Applications of refrigeration and air conditioning systems are presented along with heat gain calculation, air distribution and filtration and controls. Complete systems including split Dx air
Conditioners, heat pumps, and packaged systems will be installed. Some sheet metal layout and fabrication will also be performed. Four hours lecture, nine hours laboratory per week. Prerequisite: Refrigeration and Air Conditioning Services I (ACHP 103) or permission of instructor.

ACHP 105
**REFRIGERATION SYSTEM DESIGN**  
*Spring, 2 credit hours*

The refrigeration system and its components are studied in detail. Components will be sized and selected to meet application requirements and then system equilibrium will be determined. Two hours lecture per week. Prerequisite: Refrigeration and Air Conditioning Services I (ACHP 103); Corequisite: Refrigeration and Air Conditioning Services II (ACHP 104) or permission of instructor.

ACHP 171
**HEATING AND PLUMBING PRINCIPLES AND PRACTICE I**  
*Fall, 7 credit hours*

The fundamentals of heating equipment and practices; selection, use and care of hand and power tools; piping fabrication of copper, steel, cast iron and plastic pipe; oil burner boiler installation and service; drainage, waste and vent plumbing; basic sheet metal practice; well pumps and accessories. CERTIFICATE/AAS ELECTIVE CREDIT ONLY. Four hours lecture, nine hours laboratory per week.

ACHP 172
**HEATING AND PLUMBING PRINCIPLES AND PRACTICE II**  
*Spring, 8 credit hours*

Gas burner boiler installations with zoning; furnace installation and service; bathroom and kitchen plumbing installation; sheet metal layout and fabrication; heat loss and gain calculations; electrical schematics, controls, troubleshooting; duct sizing and installation. CERTIFICATE/AAS ELECTIVE CREDIT ONLY. Five hours lecture, nine hours laboratory per week. Prerequisite: Heating & Plumbing Principles and Practice I (ACHP 171) or permission of instructor.

ACHP 181
**INTRODUCTION TO ENVIRONMENTAL TECHNOLOGY**  
*Spring, 3 credit hours*

This course provides the student without a technical background an opportunity to explore the broad field of Environmental Technology. This includes basic problem solving as applied to situations occurring in everyday living environments. Current issues such as indoor air quality, CFC’s, radon, and Legionnaires Disease are discussed and solutions presented through proper design. Each student will be introduced to the various phases of building construction and maintenance so he or she will be able to make rational decisions with regard to building environmental conditions. Three hours lecture per week.

ACHP 215
**PLUMBING DESIGN**  
*Fall, 3 credit hours*

The theory of sizing and design of hot and cold water lines, drainage and vent lines for residential and commercial sanitary systems. Also a study of basic hydraulics and fluid flow with emphasis on application of various types of water pumping devices. Three hours lecture per week.

ACHP 233
**PIPE DRAFTING**  
*Fall, 1 credit hour*

Projects include isometric, elevation, plan and detail drawings of piping systems. A computer-aided drafting (CAD) project of a piping system is also included in the course. Three hours laboratory per week. Prerequisite: Engineering Drawing (MECH 118) or permission of instructor.

ACHP 243
**AIR CONDITIONING I**  
*Fall, 3 credit hours*

The properties of air and water vapor mixtures are determined by calculation and by the use of psychrometric charts. Air conditioning processes are analyzed by use of the psychometric chart. Heating loads are calculated for commercial and residential structures. The performance of air conditioning systems and the use of instruments is covered in the laboratory. Two hours lecture, three hours laboratory per week. Prerequisite: Refrigeration II (ACHP 102) or permission of instructor.

ACHP 244
**AIR CONDITIONING II**  
*Spring, 3 credit hours*

Cooling loads are calculated for various types of commercial structures. Computers are used to calculate loads. Air conditioning equipment and systems are studied to determine their application to meet load, comfort and energy conservation requirements. The laboratory portion of the course includes the determination, with instruments, of the performance characteristics of cooling coils, heating coils, a water chiller, cooling tower, etc. Two hours lecture, three hours laboratory per week. Prerequisite: Air Conditioning I (ACHP 243) or permission of instructor.

ACHP 253
**DOMESTIC AND COMMERCIAL HEATING I**  
*Fall, 4 credit hours*

Basic principles of heating systems are studied including continuity relations, the flow energy equation and duct and piping systems design. The equal friction method for piping system design is presented as well as the modified equal pressure, equal friction and static pressure regain methods of duct design. Solutions of both duct systems and piping systems are calculated by manual methods and also by a computer program. Theories presented in lecture are backed up by experiments in the laboratory portion. Flow measurement of both air and water are also covered. Three hours lecture, three hours laboratory per week. Prerequisite: Introduction to Heating (ACHP 111) or permission of instructor.

ACHP 254
**DOMESTIC AND COMMERCIAL HEATING II**  
*Spring, 4 credit hours*

The selection and application of heating equipment is presented. Furnaces, boilers, pumps, fans, and heat pumps are among the equipment studied. Integration of layout studied in Domestic and Commercial Heating I (ACHP 253) is stressed. Additional topics covered are: ventilation requirements, proper air distribution, balancing procedures (air & water), primary-secondary pumping, energy cost calculations and air filtration. Laboratory experiments are designed to emphasize the topics covered in lecture. Three hours lecture, three hours laboratory per week. Prerequisite: Domestic and Commercial Heating I (ACHP 253) or permission of instructor.

ACHP 264
**AIR CONDITIONING SYSTEMS DESIGN**  
*Spring, 1 credit hour*

Air conditioning systems are designed for specific buildings, equipment selected, working drawings made and specifications written. Three hours laboratory per week. Prerequisites: Pipe Drafting (ACHP 233), Air Conditioning I (ACHP 243), Domestic and Commercial Heating I (ACHP 253) or permission of instructor.

ACHP 306
**ENERGY SYSTEMS TECHNOLOGY**  
*Fall, 3 credit hours*

Cooling, heating, ventilating, humidification, dehumidification, and cleaning equipment and systems as applied to buildings will be studied. Laboratory equipment will be used to demonstrate air conditioning processes, equipment, and systems. Human comfort requirements, indoor air quality, air conditioning loads, equipment maintenance schedules and energy conservation will be studied. Emphasis will be on maintaining a comfortable, healthy environment, economically and efficiently with well-maintained equipment. Topics to be covered will also include pump and fan curves, duct and piping systems design methods, constant volume and VAV systems, and hot water and steam heating systems. Three hours lecture per week. Prerequisites: Pre Calculus Algebra (MATH 123), General Physics II (PHYS 102).

ACHP 323
**HVAC EQUIPMENT AND SELECTION**  
*Fall/Spring/Summer, 3 credit hours*

This course includes the selection and layout of modern HVAC equipment for commercial buildings. Special concern is applied to ASHRAE Standards, codes and cost analysis. Three hours lecture per week. Prerequisites: Domestic and Commercial Heating II (ACHP 254), or permission of instructor.
ACHP 324
HVAC LOAD CALCULATION
Fall/Spring, 3 credit hours
This course introduces the student to the principles and methods of calculating the heating and cooling load of an HVAC system for residential and commercial buildings. The student learns how to design the HVAC systems following the codes and standards of ASHRAE publications. Energy efficiency and conservation are incorporated into the system design for optimal performance. The course is emphasized on computer-based calculations. Computer-assisted calculation and practice are carried out throughout the course. Three hours lecture per week. Prerequisite: HVAC Load Calculation & Energy Code (ACHP 324), or permission of instructor.

ACHP 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN AIR CONDITIONING ENGINEERING TECHNOLOGY
Fall/Spring, 1-4 credit hours
Special Topics in Air Conditioning Engineering Technology will generally include topics of current interest or topics not covered in courses currently offered by the Department or in combinations not currently available. Prerequisite: permission of the instructor.

ACHP 401
BUILDING AUTOMATION SYSTEMS
Fall, 3 credit hours
This course presents detailed study of building automation controls as applied in our modern facilities. Integration of building environmental control along with life safety, security, and maintenance functions are studied. The various proprietary protocols, as well as BACNET are presented. Digital and analog inputs to central and remote processors which in turn control devices to maintain building environmental conditions, safety, and security will be studied. Networking topics studied in prerequisite courses will be integrated into the application of these automation systems. Students will work with software to operate these systems as well as specify equipment to meet the goals within the facility. Three hours lecture per week. Prerequisite: Data Communications and Networking (CITA 200), and Energy Systems Tech. (ACHP 306) or Air Conditioning II (ACHP 244), or permission from instructor.

ACHP 412
ENERGY ANALYSIS AND AUDIT
Fall/Spring, 3 credit hours
This course provides skills to perform an energy analysis of future commercial buildings and the audit of existing building through the study of energy standards and codes use in the United States. HVAC and architectural drawings are reviewed through case studies and actual buildings are audited providing students with the necessary skills to reduce energy cost in to the future of building development. Three hours lecture per week. Prerequisites: HVAC Load Calculation & Energy Code (ACHP 324), or permission of instructor.

ACHP 415
COMMISSIONING OF MECHANICAL SYSTEMS
Fall/Spring, 3 credit hours
This course explores the modern building practice of implementing a quality-oriented process for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies. Students develop and analyze the owner’s project requirements and translate these requirements into a commissioning plan. Students will transform the commissioning plan into an operational and maintenance plan for the building owner and operators. Three hours lecture per week. Prerequisite: HVAC Load Calculation & Energy Code (ACHP 324), or permission of instructor.

ACHP 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN AIR CONDITIONING ENGINEERING TECHNOLOGY
Fall/Spring, 1-4 credit hours
Special Topics in Air Conditioning Engineering Technology will generally include topics of current interest or topics not covered in courses currently offered by the Department or in combinations not currently available. Prerequisite: permission of the instructor.

ANTH 101
INTRODUCTION TO PHYSICAL ANTHROPOLOGY AND ARCHAEOLOGY
Fall/Spring, 3 credit hours
Introduction to Physical Anthropology and Archaeology provides an overview of the theory of evolution, the genetic basis of variation, the fossil record leading to and including human evolution, basic issues of method and theory in archaeology, selected topics in prehistory. Three hours lecture per week.

ANTH 102
INTRODUCTION TO CULTURAL ANTHROPOLOGY
Fall/Spring, 3 credit hours
GER 3 & GER 6
A global, cross-cultural overview of the diversity of human organization, achievements and institutions. Emphasis will be placed on non-western, nonindustrialized societies and a regional development approach to selected cultural areas. The theory, concepts and methods of cultural anthropology will provide the foundation for understanding this diversity and the historic journey which has produced the mosaic of culture. Three hours lecture per week.

ANTH 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN ANTHROPOLOGY
Fall/Spring, 1-4 credit hours
An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in anthropology.

AREA 224
RENEWABLE ENERGY ELECTRICAL CODE
Fall/Spring, 3 credit hours
This course deals with the National Electrical Code (NEC) for renewable energy systems. The various aspects of the electrical code will be studied to ensure proper system design and installations. Safety issues as related to the various sections of the code will be emphasized. Three hours lecture per week. Prerequisites: Electricity (ELEC 261) or Electrical Construction and Maintenance I & II (ELEC 171 & ELEC 172) or permission of instructor.

AREA 300
FUEL CELLS
Fall/Spring, 3 credit hours
This course introduces the student to the principles and methods of calculating the heating and cooling load of an HVAC system for residential and commercial buildings. The student learns how to design the HVAC systems following the codes and standards of ASHRAE publications. Energy efficiency and conservation are incorporated into the system design for optimal performance. The course is emphasized on computer-based calculations. Computer-assisted calculation and practice are carried out throughout the course. Three hours lecture per week. Prerequisite: Refrigeration I (ACHP 101); Corequisites: Thermodynamics (MECH 342), Heat Transfer (MECH 343), or permission of instructor.

AREA 303
WIND TURBINES
Fall/Spring, 3 credit hours
This course introduces the student to the principles and methods of calculating the heating and cooling load of an HVAC system for residential and commercial buildings. The student learns how to design the HVAC systems following the codes and standards of ASHRAE publications. Energy efficiency and conservation are incorporated into the system design for optimal performance. The course is emphasized on computer-based calculations. Computer-assisted calculation and practice are carried out throughout the course. Three hours lecture per week. Prerequisite: Refrigeration I (ACHP 101); Corequisites: Thermodynamics (MECH 342), Heat Transfer (MECH 343), or permission of instructor.

AREA 310
BIOFUELS
Fall/Spring, 3 credit hours
This course introduces the student to the principles and methods of calculating the heating and cooling load of an HVAC system for residential and commercial buildings. The student learns how to design the HVAC systems following the codes and standards of ASHRAE publications. Energy efficiency and conservation are incorporated into the system design for optimal performance. The course is emphasized on computer-based calculations. Computer-assisted calculation and practice are carried out throughout the course. Three hours lecture per week. Prerequisite: Refrigeration I (ACHP 101); Corequisites: Thermodynamics (MECH 342), Heat Transfer (MECH 343), or permission of instructor.
experimental methods, instrumentation for engineering measurements, statistical estimates of experimental uncertainty, and calibration techniques. Students will perform laboratory experiments that are applicable to energy systems as well as to broader engineering applications. This course serves as the foundation for higher level lab and design courses in this curriculum. Three two-hour laboratories per week. Prerequisites: Computer Applications for Technicians (SOET 110), Business Calculus (MATH 150), College Physics II (PHYS 104), Fluid Mechanics (MECH 241), Programming for Engineers (ENGS 102) or permission of instructor.

AREA 321
SOLAR ENERGY UTILIZATION
Fall, 3 Credit hours
Solar Energy Utilization is an introductory course on solar energy with an emphasis on thermal processes. Topics include solar radiation, heat transfer, flat-plate collectors, thermal energy storage, and solar thermal applications. Three hours lecture per week. Prerequisite: Introduction to Thermodynamics (MECH 225) or permission of instructor.

AREA 322
PASSIVE SOLAR BUILDING
Spring, 3 Credit hours
Passive Solar Building explores the use of solar energy to passively heat and cool buildings. Topics include solar radiation, building heating and cooling loads, energy efficient design and construction, passive solar heating, proper implementation of thermal mass, and passive cooling. Three hours lecture per week. Prerequisites: Introduction to Thermodynamics (MECH 225), Energy Systems Technology (ACHP 306), or permission of instructor.

AREA 323
PHOTOVOLTAIC SYSTEMS
Fall, 3 Credit hours
Photovoltaic Systems examines the direct conversion of solar energy to electricity. Topics include photovoltaic (PV) cell physics, types of PV cells, PV system components, and PV energy storage. Three hours lecture per week. Prerequisite: Introduction to Thermodynamics (MECH 225) or permission of instructor.

AREA 370
EXPERIMENTATION & MEASUREMENT II
Spring, 3 credit hours
In this laboratory course, students will perform engineering measurements to acceptable standards. They will also choose the method of measurement to achieve the accuracy necessary for use in alternative energy experiments. A hands-on approach will furnish practical knowledge of the operation of various alternative energy devices and diagnostic tools. The labs will reflect topics discussed in the AREA electives. Three two-hour laboratories per week. Prerequisites: Experimentation & Measurement I (AREA 320) or permission of instructor.

AREA 420
ALTERNATIVE ENERGY DESIGN I
Fall, 3 credit hours
Each student team will be required to apply engineering theory in the design of alternative energy systems for residential and commercial buildings. The experience provided in the laboratory projects will allow teams to assess critical factors affecting real applications in alternative energy. Three two-hour laboratories per week. Prerequisites: Experimentation & Measurement II (AREA 370) or permission of instructor.

AREA 470
ALTERNATIVE ENERGY DESIGN II
Spring, 3 credit hours
This laboratory is a continuation of AREA 420, Alternative Energy Design I. Student teams will apply design theories to develop alternative energy systems for actual residential or commercial buildings. Using the experience gained from AREA 420, students will go to the site of the proposed alternative energy system to examine the critical factors for design consideration. This course will require periodic interim reports and a final report to be submitted to the instructor and the potential owners of the proposed system. Students will create a complete project design package by the end of the semester. Three two-hour laboratories per week. Prerequisites: Alternative Energy Design I (AREA 420) or permission of instructor.

AREA 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN ALTERNATIVE & RENEWABLE ENERGY SYSTEMS
Fall/Spring, 1-4 credit hours
An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in alternative & renewable energy systems.

ARTS 101
INTRODUCTORY DRAWING
Fall/Spring, 3 credit hours
This course is an introduction to the fundamental principles and processes of drawing. Students will begin to develop a facility for the creative process and aesthetic expression. We will work from still-life, nature, the model and the imagination. Specific problems will be assigned to explore various drawing media, promote an understanding of pictorial structure, and cultivate good compositional judgment. Two lecture hours, two hours laboratory per week.

ARTS 201
ART HISTORY: B.C. TO 16TH CENTURY
Fall, 3 credit hours
This course is a study of the history of art from Cave Art to the Renaissance. Emphasis will be placed on the development of the art and its relationship to the cultural, political, and social climate of the time in which it was produced. Three hours lecture per week.

ARTS 202
ART HISTORY: 16TH TO 20TH CENTURY
Spring, 3 credit hours
This course is a study of the history of art from the Renaissance to modern times. Emphasis will be placed on the development of the art and its relationship to the cultural, political, and social climate of the time in which it was produced. Three hours lecture per week.

ARTS 203
ART AND SOCIETY
Fall/Spring, 3 credit hours
Art and Society explores the development of the Fine Arts and its relationship to social, political, and economic structures of both contemporary and historical cultures. Through the research, discussion, and presentation of several case studies in historical and contemporary art practices, students will develop their critical awareness of interdisciplinary relationships in present and past cultures. This course explores the artistic practice and production of several cultural epochs as both a symptom and parameter of social-political trends/events. Students will develop their understanding of significant contemporary and historical issues and explore their bearing and relationship to the Fine Arts. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of instructor.

ARTS 204
INTRODUCTION TO PAINTING
Fall/Spring, 3 credits
In introduction to painting students will practice basic approaches to watercolor, acrylic and oils, applying these techniques towards more accomplished works. Class work will include exercises, studies, and analysis of professional works, as well as the compilation of a painting portfolio. Two hours lectures, two hours studio laboratory per week.

ARTS 205
INTERMEDIATE DRAWING
Fall/Spring, 3 credit hours
Intermediate Drawing sequentially builds on the skills, techniques and concepts introduced in HUMA 101. Through research and studio based assignments, including a visual journal, students will apply drawing media and techniques to advanced problems. Material covered includes mixed media, conceptual drawing, narrative drawing, digital drawing and storyboarding. Two hours lecture, two hours studio laboratory per week. Prerequisites: Introduction to Drawing (HUMA 101) or permission of instructor.

ASTR 101-LECTURE, 3 CREDIT HOURS
ASTR 102-LAB, 1 CREDIT HOUR
ASTRONOMY OF THE SOLAR SYSTEM
Fall

This course is an introduction to the science of astronomy and is a study of our immediate neighborhood in the universe, the solar system. Topics included are the appearance of the sky, the earth as a planet, light, telescopes and their applications,
the physics nature of the planets, the motion and
surface of the moon, lesser bodies in the solar system, evolution of the solar system and the possibilities for extraterrestrial life. Three hours lecture per week. If lab is elected, an additional two hours laboratory per week is required. Recommended prerequisite: high school algebra or equivalent.

ASTR 103-LECTURE, 3 credit hours
ASTR 104-LAB, 1 credit hour

STELLAR ASTRONOMY
Spring

This is a survey course examining the structure, evolution and classification of stars. Topics covered will include the history of astronomy, the sun, classification of stars, multiple star systems, birth and death of stars, gravitational collapse, pulsars, black holes, galaxies, quasars, special theory of relativity, and cosmology. An observation project is also required. Three hours lecture per week. If lab is elected, an additional two hours laboratory per week is required. Recommended prerequisite: high school algebra or equivalent.

ASTR 291-295, 391-395, OR 491-495

SPECIAL TOPICS IN ASTRONOMY
Fall/Spring, 1–3 credit hours

Special Topics in Astronomy will generally include topics of current interest or topics not covered in courses currently offered by the Department or in combinations not currently available.

AUTO 101

AUTOMOTIVE SERVICES
Fall, 2 credit hours

Automotive Services is an introductory course in vehicle systems theory of operation and maintenance. Topics include automotive shop procedures involved in general maintenance of vehicles related to suspension, engine, and driveline. Safety and customer relations skills will also be stressed. Students who have successfully completed a high school vocational program in Automotive Mechanics/Technology may be eligible for transfer credit. Two hours laboratory per week.

AUTO 102

DIESEL ENGINES
Spring, 2 credit hours (elective)

A course which considers the basic construction of the diesel engine. Topics will include classification of diesel engines, fuels, turbochargers, injection systems, and pre-heater systems. Laboratory will consist of hands-on experience in engine troubleshooting, parts identification, adjustments and testing. One hour lecture, two hours laboratory per week. Prerequisite: Automotive Services & Lab (AUTO 101 & 111), or permission of instructor.

AUTO 103

AUTOMOTIVE AIR CONDITIONING
Spring, 2 credit hours (elective)

A study of the component parts of automotive air conditioning systems, their function and operation. Laboratory will consist of hands-on experience in testing, evacuation, and charging of the system. Refrigerant identification, safety, and environmental issues are addressed, along with fundamentals of manual and automatic controls. One hour lecture, two hours laboratory per week. Prerequisite: Automotive Electrical Systems & Lab (AUTO 112 & 122), or permission of instructor.

AUTO 104

BASIC WELDING
Fall/Spring, 2 credit hours

This course includes all basic processes and procedures in joining and cutting ferrous and non-ferrous metals found in automotive/industrial applications using the latest tools and equipment. Focus will include safety, proper techniques, and quality control. One hour lecture, two hours laboratory per week. Fall Semester, restricted to Automotive Technology students or permission of the instructor.

AUTO 111

AUTOMOTIVE SERVICES LABORATORY
Fall, 1 credit hour

Topics include automotive shop procedures involved in general maintenance of vehicles related to suspension, engine, and driveline. Additional information addresses New York State inspection. Students who have successfully completed a high school vocational program in Automotive Mechanics/Technology may be eligible for transfer credit. Two hours laboratory per week. Corequisite: Automotive Services (AUTO 101) or permission of instructor.

AUTO 112

AUTOMOTIVE ELECTRICAL SYSTEMS
Fall, 3 credit hours

A study of fundamental electrical relations and circuits as applied to the automobile. Topics include series, parallel, and series-parallel circuits; magnetism, direct and alternating current fundamentals; battery, charging, and starting, systems. Three hours lecture per week.

AUTO 113

ENGINE PERFORMANCE I
Spring, 3 credit hours

The classroom component of this course introduces the student to fuel and ignition systems. Basic electricity/electronic skills and knowledge are applied in addressing the theory involved in sophisticated electronic ignition and fuel-injection systems. Students study primary switching through secondary firing. Topics include basic circuitry, hall-effect and transistor theory, solenoids, fuel injection (both throttle body and multi-port) and electronic engine management (powertrain control). Three hours lecture per week. Prerequisite: Automotive Services & Lab (AUTO 101 & 111), Automotive Electrical Systems & Lab (AUTO 112 & 122), or permission of instructor.

AUTO 114

ENGINE PERFORMANCE I LABORATORY
Spring, 1 credit hour

The laboratory component of this course consists of hands-on activities involving theories learned in the classroom. Students use service information, both hard-copy and electronic (CD-ROM), while testing systems with digital volt/ohm meters and computer scanners. Fuel and powertrain control systems are diagnosed with the latest tools available. Three hours laboratory per week. Prerequisite or Corequisite: Engine Performance I (AUTO 113), or permission of instructor.

With the completion of both components of Engine Performance I, (AUTO 113 and AUTO 114) students will be able to diagnose and repair a vehicle with a no-start condition resulting from a fuel or ignition problem. The student will be able to access vehicle computer information, including inputs, outputs, and miscellaneous tests.

AUTO 122

AUTOMOTIVE ELECTRICAL SYSTEMS LABORATORY
Fall, 1 credit hour

The laboratory component of this course consists of hands-on activities involving theories learned in the classroom. Students use service information, both hard-copy and electronic (CD-ROM). Testing involves batteries; series, parallel, and series-parallel circuits, as well as charging and starting systems component identification and service. Three hours laboratory per week. Prerequisite or Corequisite: Automotive Electrical Systems (AUTO 112), or permission of instructor.

AUTO 141

AUTOMOTIVE BRAKING SYSTEMS
Spring, 3 credit hours

This course consists of theory and operation in the following automotive areas: clutch, manual transmissions, drivelines, and rear axle, as well as basic disc and drum braking systems. Three hours lecture per week. Prerequisite: Automotive Services (AUTO 101), or permission of instructor.

AUTO 144

AUTOMOTIVE BRAKING SYSTEMS LABORATORY
Spring, 1 credit hour

This course consists of service and repair in the following automotive areas: clutch, manual transmissions, drivelines, and rear axle, as well as basic disc and drum braking systems. Use of specialized service equipment and procedures is stressed in the laboratories. Three hours laboratory per week. Prerequisite or Corequisite: Automotive Services (AUTO 101) and (AUTO 111), Automotive Drive-lines and Brakes (AUTO 141), or permission of instructor.

AUTO 212

AUTOMOTIVE ELECTRICAL SYSTEMS II
Fall, 4 credit hours

This course begins where Automotive Electrical Systems terminates. Topics covered include lighting, gauges, warning devices, driver information systems, horn and wiper operations, and electrical accessory diagnosis and repair. Three hours of lecture and three hours of laboratory per week. Prerequisites: Automotive Electrical Systems (AUTO 112) or
permission of instructor.

AUTO 213 ENGINE PERFORMANCE II
Fall, 4 credit hours
This course begins where Engine Performance I terminates. Sophisticated engine control systems are studied which include distributorless ignition, electronic spark control and emission controls. The student learns and applies knowledge of the integration of the listed systems and the powertrain/engine control computer (PCM). Diagnosis and repair includes use of the latest tools and test equipment, digital volt/ohm meters, oscilloscopes, and interactive computer scanners. Students continually utilize the latest automotive reference materials in diagnosis and repair procedures. Three hours lecture, three hours laboratory per week. Prerequisites: Automotive Electrical Systems & Lab (AUTO 112 & 114), Engine Performance I & Lab (AUTO 113 & 114), or permission of instructor.

AUTO 214 AUTOMOTIVE COMPUTER SYSTEMS
Spring, 3 credit hours
Review of electrical and electronic devices used in automobiles. Study of on-board diagnostic systems for both domestic and import vehicles. Diagnosis of computerized automotive systems. A writing intensive course. Two hours lecture, two hours laboratory per week. Prerequisites: Automotive Services (AUTO 101) and (AUTO 111), Automotive Electrical Systems & Lab (AUTO 112 & 114), Engine Performance II (AUTO 213), Internal Combustion Engines (AUTO 220), or permission of instructor.

AUTO 220 INTERNAL COMBUSTION ENGINES
Fall, 4 credit hours
Concerns the principles of operation of the gasoline internal combustion engine. Each student participates in an actual engine overhaul, including measuring to factory specifications and machining operations with the latest tools and equipment. Designed for Automotive Technology majors principally, applicants from other curricula will be interviewed by department personnel. Tool kit required. Two hours lecture, four hours laboratory per week. Prerequisites: Automotive Services & Lab (AUTO 101 & 111), Automotive Electrical Systems & Lab (AUTO 112 & 114), Engine Performance I & Lab (AUTO 113 & 114), or permission of instructor.

AUTO 221 AUTOMATIC TRANSMISSIONS
Spring, 4 credit hours
Fundamental principles of automatic transmissions including adjustments, repairs, and on-vehicle testing. Each student will participate in an actual overhaul of an automatic transmission. This project is tested for operation and efficiency on a transmission dynamometer. Three hours lecture, three hours laboratory per week. Prerequisites: Automotive Electrical Systems & Lab (AUTO 112 & 122), Engine Performance I & Lab (AUTO 113 & 114), Engine Performance II (AUTO 213), Automotive Drivelines and Brakes (AUTO 141) and (AUTO 144), or permission of instructor.

AUTO 225 MANUAL TRANSMISSIONS AND DRIVETRAIN
Fall, 3 credit hours
Topics include transmission theory, design, and operation of manually shifted front-wheel and rear-wheel drive transmissions in automotive applications. Related topics necessary to include with transmissions also include axles, drive shafts, differentials, universal joints, transfer cases, and the manual and electronic controls associated with each. Students receive equal lecture and lab sessions. Three hours lecture per week. Prerequisites: Automotive Services & Lab (AUTO 101 & 111), Automotive Braking Systems (AUTO 141), Automotive Braking Systems Lab (AUTO 144), Basic Welding (AUTO 104), or permission of instructor.

AUTO 230 SERVICE MANAGEMENT AND OPERATIONS
Spring, 1 credit hour
This seminar type course will meet to discuss topics such as satisfaction, shop management, management techniques, equipment purchase/utilization and dealership structure. Students will perform interviews and write about their findings. Each student will write five research papers from a list of topics concerning the automotive repair business. Weekly summaries from trade journals will be completed. These will relate to topics in Automotive Service Management. One hour lecture per week. Prerequisites: Automotive Electrical Systems (AUTO 112) and Engine Performance II (AUTO 213), or permission of instructor.

AUTO 241 SUSPENSION DESIGN AND SERVICES
Fall, 2 credit hours
This course covers theory, diagnostic and service procedures used in suspension and steering systems. Two hours lecture per week. Prerequisite: Automotive Services (AUTO 101), or permission of instructor.

AUTO 242 SUSPENSION DESIGN AND SERVICES LABORATORY
Fall, 1 credit hour
This course covers diagnostic, repair, and adjustment procedures used in suspension and steering systems. Proper use of suspension and steering tools and equipment is covered, including computerized alignment equipment. Three hours laboratory per week. Prerequisite: Automotive Services (AUTO 101) and (AUTO 111), or permission of instructor.

AUTO 291-295 SPECIAL TOPICS IN AUTOMOTIVE TECHNOLOGY
Fall/Spring, 1-4 credit hours
Special Topics in Automotive Technology will generally include topics of current interest or topics not covered in courses currently offered by the Department or in combination not currently available. Prerequisite: permission of the instructor.

BASK 051 COLLEGE SUCCESS STRATEGIES
Fall/Spring, 1 credit hour
This course is designed to help students successfully make the transition to college while developing a sense of responsibility for their own learning. Students will practice a set of learning strategies focusing on such topics as time management, note-taking, textbook reading/memory improvement, goal setting, test preparation/taking, and critical thinking. Students will learn and demonstrate basic library research skill, computer skills, and explore/identify personal learning styles, values, career choice, and attitudes toward diversity. Two hours lecture per week. Required of all first-time EOP students. Credit in some certificates only.

BASK 060 FRESHMAN SEMINAR
Fall/Spring, 1 credit hour
This course is designed to help students with the transition into college. Topics will include a study behavior inventory, goal setting, time management, campus resources, learning styles, test taking, note taking, memorization strategies, and other information useful in becoming a successful college student. Two hours laboratory per week. Admission into this class is by permission of the instructor. Graduation credit for some certificates only.

BASK 291-295, 391-395, OR 491-495 SPECIAL TOPICS IN ACADEMIC DEVELOPMENT
Fall/Spring, 1-4 equivalent credit hours
An introductory or more advanced exploration of topics not covered or only partially covered by other courses currently available. The course will be specified in the semester class schedule. Students may take two special topics courses for preparatory credit/credit as long as the topic is different.

BIOL 101 INTRODUCTION TO BIOLOGY
Fall/Spring, 4 credit hours GER 2
A study of the major concepts in the life sciences presented for the non-major. Subjects covered include an overview of the basic concepts of plants and animals, including human biology, with attention given to cellular processes and the relationship between form and function. Three hours lecture, two hours laboratory per week. The laboratory includes dissection of a representative vertebrate. Intended for students receiving less than 75 on the New York State Regents Biology examination and/or students not in a science-related program. This course is not transferrable as college-level general biology. Cannot be taken for credit by students with credit in Introduction to Human Biology (BIOL 102).
Course Descriptions: BIOLOGY

**BIOL 102**
INTRODUCTION TO HUMAN BIOLOGY
Fall/Spring, 4 credit hours  GER 2
A study of the major concepts in the life sciences presented for the non-major with a focus on the biology of the human organism. Concepts covered include the cell, metabolism, and a review of the systems of the body. Three hours lecture, two hours laboratory per week. The laboratory includes dissection of a representative vertebrate. For those students receiving less than 75 on the New York State Regents Biology examination, or permission of instructor. Cannot be taken for credit by students with credit in Introduction to Biology (BIOL 101).

**BIOL 117**
HUMAN REPRODUCTION
Spring, 3 credit hours  GER 2
This course will discuss human reproduction from a biological point of view. Topics of interest will include anatomy, reproductive physiology, genetics, conception, embryology, pregnancy and parturition, and disease states. Consideration will be given to medical, psychological, sociological, and legal and ethical perspectives. Three hours lecture per week.

**BIOL 150**
COLLEGE BIOLOGY I
Fall, 4 credit hours  GER 2
An introduction to the fundamental biological concepts common to plants, animals, and microorganisms. Topics include the chemical and molecular basis of life, metabolism, cell biology, cellular reproduction, mendelian and molecular genetics, gene regulation, DNA technology, and evolution. The laboratory includes the study of cells, osmosis, enzymes, cellular respiration, genetics, molecular techniques, and the dissection of a representative mammal. Three hours lecture, three hours laboratory per week. Prerequisite: New York State Regents Biology examination score of 75 or above or Introduction to Biology (BIOL 101) or Introduction to Human Biology (BIOL 102) or College Biology I (BIOL 105) or permission of instructor.

**BIOL 155**
COLLEGE BIOLOGY II
Spring, 4 credit hours  GER 2
This course consists of the study of the evolutionary history of biological diversity, plant form and function, animal development, and aspects of animal form and function including the immune system, nerve physiology, homeostasis and chemical signals. The laboratory includes structural and functional studies of representative plants and animals, bacterial transformation, photosynthesis, plant growth and development, and population dynamics. Three hours lecture, three hours laboratory per week. Prerequisite: College Biology I (BIOL 105) or permission of instructor.

**BIOL 207**
HUMAN ANATOMY
Spring, 4 credit hours  GER 2
This course is a detailed study of the human body with emphasis on structure with limited general function. Included topics are cells, tissues, skeletal, muscular, digestive, circulatory, respiratory, reproductive, urinary, nervous, endocrine systems and sense organs. The laboratory includes study of cells, tissues, organ systems, and dissection of a representative mammal. The course is most suitable for students in health-related or biology curriculums requiring in-depth knowledge of the human body. Three hours lecture, three hours laboratory per week. Prerequisites: New York State Regents Biology examination score of 75 or above or Introduction to Biology (BIOL 101) or Introduction to Human Biology (BIOL 102) or College Biology I (BIOL 105) or permission of instructor.

**BIOL 209**
MICROBIOLOGY
Fall/Spring, 4 credit hours
A study of the basic characteristics of microbes, with an emphasis on disease causing organisms. Includes morphology, growth, physiology, and control. Laboratory techniques including microscopy, staining, aseptic technique, culture media, isolation, and identification of microbes. Three hours lecture, two hours laboratory per week. Prerequisite: Introduction to Biology (BIOL 101) or Introduction to Human Biology (BIOL 102) or College Biology I (BIOL 105) or Human Anatomy & Physiology I (BIOL 217); AND HS chemistry or Introduction to Chemistry (CHEM 101/100) or Investigative Chemistry (CHEM 107/108); or permission of instructor.

**BIOL 217**
HUMAN ANATOMY & PHYSIOLOGY I
Fall/Spring, 4 credit hours  GER 2
This course is the first course in a sequence which studies the anatomy and physiology of the human body in detail. Topics covered in this first semester course include an introduction to the basic plan and organization of the body, basic biochemistry, basic cell structure and cell physiology and the anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. The laboratory sessions will explore detailed anatomy using models and specimens, and experimental physiological concepts. This course is appropriate for students in the Nursing, Physical Therapist Assistant, Dental Hygiene and other health-related fields that require knowledge of the medical, psychological, sociological, and legal and ethical perspectives. Three hours lecture per week. Prerequisites: Introduction to Biology (BIOL 101) or Introduction to Human Biology (BIOL 102), Anatomy & Physiology I (BIOL 217) and College Biology I (BIOL 105) or permission of instructor.

**BIOL 218**
HUMAN ANATOMY & PHYSIOLOGY II
Fall/Spring, 4 credit hours
This is the second in a sequence of two courses that studies the detailed anatomy and physiology of the human body. Topics include the anatomy and physiology of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. May also cover the immune system, metabolism, fluid-electrolyte-acid-base balance, and pregnancy and development. The laboratory will include a dissection of the cat. Three hours lecture, three hours lab per week. Prerequisite: Anatomy & Physiology I (BIOL 217) or permission of instructor.

**BIOL 225**
BIOLOGY IN SOCIETY
Spring, 3 credit hours
This course is designed to develop critical thinking concerning the growing presence of biology in society. Students will apply biological principles and the scientific method to problems and decisions confronting society. Students will use and expand upon their basic biological knowledge of DNA, molecular biology and physiology to discuss the importance and ethical impact of the use of biology in society. General topics will include DNA technology, stem cells, medicine and forensic applications, specific topics discussed may vary from one semester to the next as new issues or developments warrant. The central goal of the course is to have students leave as highly informed citizens with a greater understanding of the science behind current biological applications. Three hours lecture per week. Prerequisites: a grade of C or higher for one of the following courses or its equivalent: Introduction to Biology (BIOL 101), Introduction to Human Biology (BIOL 102), College Biology I (BIOL 105), Human Anatomy and Physiology I or II (BIOL 217/218), or permission of instructor.

**BIOL 310**
THE GENOME
Fall, 3 credit hours
This course covers the fundamental concepts of molecular genetics and heredity, as well as mutations, the genetics of sex and gender, the human genome, complex traits, genetic testing, gene therapy, and the near future of human genetics. Besides providing a basis for understanding the current state of human genetic knowledge, future discoveries, and novel applications, a major focus of the course is the development of the science behind current biological applications. Three hours lecture per week. Prerequisites: College Biology I (BIOL 150) or Human Anatomy & Physiology I (BIOL 217) and junior level status, or permission of instructor.

**BIOL 291-295, 391-395, or 491-495**
SPECIAL TOPICS IN BIOLOGY
Fall/Spring, 1–4 credit hours
Special Topics in Biology will generally include topics of current interest or topics not covered in courses currently offered by the Department or in
Course Descriptions: BUSINESS

BSAD 100 INTRODUCTION TO BUSINESS
Fall/Spring, 3 credit hours
This course is a survey of business, introducing the major operations of a business, including production, marketing, finance, and human resources management. The course also examines the economic, social, and political environment of business. This course will expose students to speakers from varying business disciplines throughout the semester. Three hours lecture per week.

BSAD 120 PRINCIPLES OF BANKING
Fall, 3 credit hours
A comprehensive introduction to the diversified services offered by the banking industry today. This course includes materials on bank accounting, pricing, profitability, bank personnel and security functions. Three hours lecture per week.

BSAD 200 BUSINESS COMMUNICATIONS
Fall/Spring, 3 credit hours
This course is designed to help develop strong oral and written communication skills. The student will be given opportunities to practice writing and editing professional correspondence. Additionally, the student will compose and deliver oral presentations. Assignments will include the use of inductive and deductive approaches to conveying a variety of messages and applying the rules for proper grammar and punctuation. Three hours lecture per week. Writing intensive course. Prerequisite: Oral and Written Expression (English 102) or Expository Writing (English 101), or permission of instructor.

BSAD 201 BUSINESS LAW I
Fall/Spring, 3 credit hours
Text and case study of court system, origin, nature and classification of law with emphasis on specific laws relating to torts and general contract law. Three hours lecture per week.

BSAD 202 BUSINESS LAW II
Spring, 3 credit hours
Continuation of Business Law I. Areas of study include law of sales, commercial paper, agency, partnerships and corporations. Three hours lecture per week. Prerequisite: Business Law I (BSAD 201) or permission of instructor.

BSAD 215 SMALL BUSINESS MANAGEMENT
Fall/Spring, 3 credit hours
This course will examine the nature of small business and the people who are successful in starting them. Topics will include the requirements and steps of conducting a comprehensive pre-business feasibility study, the types of decisions faced by managers of small firms, and the application of business disciplines to these situations. The student will be required to formulate a business plan. Three hours lecture per week. Prerequisite: Expository Writing (ENGL 101), or Oral and Written Expression (ENGL 102), or permission of instructor.

BSAD 220 PRINCIPLES OF RETAILING
Fall, 3 credit hours
A realistic, pragmatic approach to retailing beginning with a study of the retail customer's motives and objectives. The operation of a retail store is studied in depth with emphasis on evaluation of the management alternatives in regard to buying, pricing, sales promotion and advertising. The problems of starting a retail business are also explored. Three hours lecture per week.

BSAD 222 PRINCIPLES OF SELLING
Fall/Spring, 3 credit hours
This course focuses on the personal selling process and is designed to benefit students across multiple disciplines, especially students wishing to develop a competency in sales. Students focus on the role of consumer behavior and effective communication as applicable to personal selling. Students identify and apply selling principles such as persuasive communication, negotiating, prospecting, preparing and delivering sales presentations, overcoming objections, and closing the sale. Three hours lecture per week.

BSAD 225 RETAIL ADVERTISING AND SALES PROMOTION
Spring, 3 credit hours
This course entails a study of the major problems and methods of advertising and sales promotion. The social and economic role of promotion will be explored in its relationship to such established disciplines as psychology and sociology. The role of research and other methods of gathering information will also be covered. Prerequisite: Principles of Retailing (BSAD 220) or permission of instructor.

BSAD 235 BUSINESS AND ACCOUNTING FIELD EXPERIENCE
Fall/Spring, 3 credit hours
This internship provides a hands-on experience working with entrepreneurs and small business owners. Internship opportunities include both business and accounting work environments. Twelve hours flextime per week. Prerequisite: Foundations of Managerial Accounting (ACCT 102) or permission of the instructor.

BSAD 250 REAL ESTATE I
Fall, 4 credit hours
A study of general contract law, real estate contracts, mortgages, agencies, licensing of law, land use and real estate mathematics. Four hours lecture per week.

BSAD 301 PRINCIPLES OF MANAGEMENT
Fall, 3 credit hours
This course employs all key management topics and concepts applicable to all organizations; domestic and international, profit and non-profit, manufacturing and service. It provides instruction in principles of management that have general applicability to all types of enterprises; basic management philosophy and decision making; principles involved in planning, organizing, leading, and controlling with managerial skills and tools used, from an eclectic perspective. It allows a student to transfer this knowledge to practical applications. Prerequisites: Introduction to Business (BSAD 100) or Business Law I (BSAD 201) or Fundamentals of Emergency and Disaster Management (EADM 201) and minimum 30 credit hours with 2.0 GPA or permission of instructor.

BSAD 305 PUBLIC BUDGETING & FISCAL MANAGEMENT
Fall, 3 credit hours
This course exposes students to the technical, political, and administrative elements of the federal, state, and local budgeting process. Topics will include budget formulation, execution, evaluation, and the theoretical basis for decision making that is integral to that process. Three hours lecture per week. Prerequisites: Foundations of Financial Accounting (ACCT 101) or Survey of Accounting (ACCT 104), Introduction to Information Technology (CITA 110); Principles of Macroeconomics (ECON 101) or Principles of Microeconomics (ECON 103) or Introduction to Government and Politics (POLS 101); Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102); Business Calculus (MATH 150), or Statistics (MATH 141); or permission of instructor.

BSAD 310 HUMAN RESOURCE MANAGEMENT
Fall/Spring, 3 credit hours
This course provides a foundation for the study of human capital management. Topics include job analysis and design, recruiting, training, motivating employees, performance appraisals, current doctrine on employee's rights, responsibilities, and compensation issues. Prerequisites: Introduction to Business (BSAD 100) or Business Law I (BSAD 201) or Fundamentals of Emergency and Disaster Management (EADM 201) or permission of instructor.

BSAD 319 PROFESSIONAL ETHICS
Fall/Spring/Summer, 3 credit hours
This course acquaints students with the major frameworks for ethical decision making in the professions based on Kantian, Utilitarian and Contract ethics and principles: consequence, liberty, opportunity, need, justice and distributive justice. It examines ethical questions that can arise in professional practice, the relationship between professionals and clients as well as the connection between ordinary and professional morality. Students will use
analytical tools to recognize and address contemporary ethical dilemmas in the professions: business, criminal justice and computer information systems. Emphasis is placed on utilizing ethical theories that affect thinking, policy formulation, and professional conduct. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) and junior level status, or permission of instructor.

**BSAD 325 CONSUMER BEHAVIOR**  
**Fall, 3 credit hours**

This course explores consumer behavior and its internal and external influencers. Emphasis is placed on the consumer decision making process. Consumer behavior is analyzed for its significance in developing effective marketing communication, product positioning, and product promotion. Students apply consumer behavior theory to analyze consumer lifestyle data and identify customer profiles for products and their respective target markets. Three hours lecture per week. Prerequisites: 45 credit hours or permission of instructor.

**BSAD 330 SALES FORCE MANAGEMENT**  
**Fall, 3 credit hours**

This course explores the principles of sales force management. The course is designed to benefit students across multiple disciplines, especially students planning to pursue a career in sales. Emphasis is placed on the following principles of sales force management: formulating and evaluating sales strategy, recruitment, training, motivation, performance evaluation, and sales force structure. Three hours lecture per week. Prerequisite: 30 hours of credit or permission of the instructor.

**BSAD 335 ADVANCED BUSINESS INTERNSHIP**  
**Fall/Spring/Summer, 3 credit hours**

This advanced business internship program is designed as an elective for students, on a space available basis and instructor's permission. Offers hands-on experience working with small business entrepreneurs in a confidential and professional environment. Allows the intern the opportunity to apply their educational, organizational and time management skills in solving real life business issues and assist less experienced interns. An intern's typical workweek would consume 12 hours of flextime, internal and/or external to the SBDC office as directed by business advisors, 180 hours of internship. Prerequisite: NYS/SBDC Business Internship (BSAD 235) and permission of instructor.

**BSAD 340/DHYG 340 MANAGEMENT COMMUNICATIONS**  
**Fall/Spring, 3 credit hours**

This course introduces students to the foundations of effective management communication. It focuses on communicating strategically and persuasively in a professional environment. Skills such as advocacy, framing issues clearly and strategically, preparing a team for communicating in a competitive environment, facilitating meetings, and adapting arguments to audiences’ needs will be developed. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) and junior level status or the permission of the instructor.

**BSAD 345 TECHNOLOGICAL INNOVATIONS AND ENTREPRENEURSHIP**  
**Fall/Spring, 3 credits**

Technology entrepreneurship is a spirited approach to business leadership that involves identifying high-potential, technology-intensive commercial opportunities, gathering and analyzing resources such as talent and capital, and managing rapid growth and significant risks using principled decision-making skills. It is a recent global phenomenon that has driven vital changes in society by empowering individuals to seek opportunity in technological and business solutions when presented with what others see as insurmountable problems. This course will introduce the fundamentals of technology entrepreneurship. It is aimed at guiding students who may be starting their own businesses in the future or working for a high-growth company. Three hours lecture per week. Prerequisites: Principles of Macroeconomics (ECON 101), Introduction to Finance (FSMA 210) and Introduction to Information Technology (CITA 110) or permission of instructor.

**BSAD 350 MARKETING**  
**Fall/Spring, 3 credit hours**

Problems in marketing management and the marketing mix elements of product, price, promotion, and distribution are presented in the context of a dynamic global environment. The impact of legal, political, social, ethical, technological, economic, and competitive factors upon marketing activities are discussed. Three hours lecture per week. Prerequisites: Foundations of Financial Accounting (ACCT 101) and Expository Writing (ENGL 101) or junior level status or permission of instructor.

**BSAD 353 CASINO MANAGEMENT**  
**Fall/Spring, 3 credit hours**

This course examines the casino industry using real world business examples. Topics covered in this course are casino management strategy, casino marketing, and casino management policies and issues. Within the three major topics, students explore the accounting and auditing procedures within a casino organization, understand business aspects of slots and table games, examine the implementation of marketing strategies at various casinos and assess the impact of government regulations on the entire U.S. casino industry. Students evaluate the overall impact of both the external and internal casino environment while formulating strategic plans for casino operations. Three hours lecture per week. Prerequisite: Introduction to Business (BSAD 100), GER Math, and junior level standing, or permission of instructor.

**BSAD 354 CASINO FINANCIAL CONTROLS**  
**Fall/Spring, 3 credit hours**

This course examines the financial controls that are utilized in the casino industry. Topics covered in this course are casino financial controls, casino theoretical versus actual hold percentage, and conversion of casino financial data into financial statements. Within the three major topics, students will explore historical and present day casino financial controls, analyze and learn how to calculate the difference between theoretical and actual hold percentages, examine the procedures necessary to ensure casino financial stability, and develop an understanding of casino credit and its applications. Students learn how gaming activities are transformed into financial statements and will also examine the genesis of promotional allowances and the criteria for issuing both these allowances and credit within a casino organization. Three hours lecture per week. Prerequisite: Introduction to Business (BSAD100), GER Math, and junior level standing, or permission of instructor.

**BSAD 355 MANAGEMENT OF TECHNOLOGY**  
**Fall, 3 credit hours**

The aim of this course is to provide a solid grounding to students interested in managing and appraising various aspects of technology within organizations. This course focuses on the strategic management of technology, patterns of technological change, technological transitions and technological innovations within organizations. The course utilizes cases, lectures, readings, and projects. The conceptual framework of the course is an evolutionary process perspective on technology management. Course examines the scope of technology management in relation to: design, production, finance, marketing, accounting, sales, distribution and human relations. Three hours lecture per week. Prerequisites: junior level standing or permission of the instructor.

**BSAD 356 CASINO MARKETING**  
**Fall/Spring, 3 credit hours**

This course explores marketing theories and applications within a casino organization. Topics covered in this course are strategic planning, macromarketing: external factors that impact the casino industry, and micromarketing: factors that a casino can control. Within the three major topics students will examine the role of consumer behavior on gambling motivation, analyze how to effectively segment casino customers and administer the service-profit chain which examines how companies link profit and growth to customer loyalty, satisfaction, and value. Students will also analyze channels of distribution applicable to the casino industry and they will also assess the differing computer technologies and their impact on gaming operations. Three hours lecture per week. Prerequisite: Introduction to Business (BSAD100), Expository Writing (ENGL 101) or Oral & Written Expression (ENGL 102), GER Math, and junior level standing, or permission of
Course Descriptions: BUSINESS

BSAD 357
CASINO GAMING METHODS
Fall/Spring, 3 credit hours
This course explores the gaming methods and procedures utilized by various departments within a casino gaming organization. Topics covered include an introduction to casino methods, slot and table game operations, and security and surveillance functions. Within the three major topics, students survey and interpret the many functions performed by the slots and table games operations, and comprehend how to apply the general mathematics associated with casino gaming. Students also learn how to distinguish between the rules and objectives of the various casino games such as bingo, baccarat and craps, and analyze the organizational structures and objectives associated with the casino security and surveillance departments. Three hours lecture per week. Prerequisite: Introduction to Business (BSAD100), GER Math, Statistics (MATH 141) and junior level standing, or permission of instructor.

BSAD 365
FINANCIAL STATEMENT ANALYSIS
Fall/Spring, 3 credit hours
This course explores both the underlying theory and practical applications of financial reporting and analysis. It emphasizes the importance of using financial statements as a source of information to evaluate historical and future economic performance. Three hours lecture per week. Prerequisite: Foundations of Managerial Accounting (ACCT 102) or Survey of Accounting (ACCT 104); Introduction to Information Technology (CITA 110), Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102); and Statistics (MATH 141); or permission of instructor.

BSAD 372
E-COMMERCE
Fall/Spring, 3 credit hours
In this course, students will examine the infrastructure and application technologies needed to conduct e-commerce. It will include selecting data mining techniques, making appropriate use of encryption technologies, understanding XML, and participating in online transactions and negotiations. Specialized topics such as technical requirements, virus protection, streaming multimedia, and virtual reality technology will be introduced. The course culminates with research on current developments and their applications to e-commerce. Three hours lecture per week. Prerequisite: Introduction to Information Technology (CITA 110), Expository Writing (ENGL 101), and junior level standing, or permission of instructor.

BSAD 373
INTERNATIONAL BUSINESS MANAGEMENT
Fall/Spring, 3 credit hours
This course enhances the student's ability to operate in a global market. Students will become grounded in global marketing, strategy, human resource management, and finance. Students will develop a strong understanding of international culture and ethical issues when taking a local business global. Students will learn to use an organization's global resources and logistics to enact the organization's global strategy. Prerequisites: Expository Writing (ENG 101) or Oral and Written Expression (ENG 102), or permission of instructor.

BSAD 375
LEADERSHIP AND CHANGE
Fall/Spring, 3 credit hours
This course will provide the student with the tools, understanding and capability to apply modern leadership principles in a changing environment. This course will explore the changing corporate environment, corporate culture, and overcoming resistance to change. Three hours lecture per week. Prerequisites: Principles of Management (BSAD 301) or permission of instructor.

BSAD 400
OPERATIONS/PRODUCTION MANAGEMENT
Fall/Spring, 3 credits
This course will focus on the study of modern theory and practice relating to the operations function in both manufacturing and service organizations. Topics will include forecasting, materials and capacity planning and control. Case studies would be used to examine and analyze the manufacturing and service environments in terms of operational planning, the use of teams and teamwork, and decision making problems that confront management. Fundamentals of the analytical method would be introduced early to help solve problems in the design, operation and control of systems. Three hours lecture per week. Prerequisites/corequisites: Microeconomics (ECON 103), Principles of Management (BSAD 301), Foundations of Financial Accounting (ACCT 101), Statistics (MATH 141), and junior level status in the Bachelor of Business Administration degree programs or permission of instructor.

BSAD 405
ORIENTATION TO CULMINATING EXPERIENCE
Fall/Spring, 1 credit hour
This course is intended as the precursor to the senior culminating experience in the Bachelor of Business Administration (BBA) program. Seniors will meet with faculty on a weekly basis to discuss resume preparation, job interviewing techniques, on-the-job training, identifying and securing internships, internship requirements and performance assessment/evaluation. This course is a prerequisite to Internship in Business Administration (BSAD 450) and the Senior Project (BSAD 410). One hour lecture per week. Prerequisite: senior level status in Bachelor of Business Administration programs or permission of instructor.

BSAD 410
senior project
Fall/Spring, 3-15 credits
This course is an alternative to BSAD 450. It is designed for students who are unable to complete a 15-credit internship. Students will complete a senior research project specifically addressing issues under the umbrella of Management. Under the guidance of a faculty mentor, the student will submit a research proposal, conduct research, prepare a thesis style report, and present a defense to a thesis committee. 112.5 to 562.5 project hours. Prerequisites: Introduction to Culminating Experience (BSAD 405) and senior level status in the Management program or permission of the instructor.

BSAD 420
APPLIED ORGANIZATIONAL MANAGEMENT
Fall/Spring, 3 credit hours
Applied Organizational Management emphasizes individuals' and groups' behavior in organizations. The rationale for the existence of organizations is discussed with the strategic objectives of improving productivity, performance, effectiveness and efficiency to accomplish missions. Theories of management and organizations will be examined. Additional topics covered will include group development, group decision making and problem solving, leadership roles, power and politics within organizations. Other important areas of analysis will be the norms and values of groups, group power influence, coalition formulation and organizational culture. Three hours lecture per week. Prerequisites: Introduction to Business (BSAD 100) and junior level status or permission of instructor.

BSAD 449
STRATEGIC POLICIES & ISSUES
Fall, 3 credit hours
This course defines the criteria for ultimate decision making. Students will examine business strategies in international and domestic operations, and assess the impact of political, economic, and legal factors on business operations and strategies. Focus will be given to actual situation analysis and application of current functional and managerial techniques to a variety of case studies. Three lecture hours per week. Prerequisite: Minimum junior level status (at least 60 credit hours) or permission of instructor.

BSAD 450
BUSINESS INTERNSHIP
Fall/Spring, 6-15 credits
The Business Internship is an academic program, which integrates classroom work and practical experience with cooperating businesses. The internship allows seniors the opportunity to apply classroom learning in corporations. It is a structured field experience in which an intern acquires and applies knowledge and skills, while working in a responsible role within a business environment.

Working with a supervisor, the student will perform prescribed work within an administrative setting. The internship will be tailored to the individual student's career interests and the needs
of the supervising organization. Internship assignments and activities may include, but not limited to, information gathering, research, data analysis, planning, organization, implementation, evaluation, and other tasks and responsibilities deemed necessary. Forty hours per week as required. Prerequisites: Senior level status in the Management program or permission of instructor. Grade point average of 3.0 or higher before the internship begins or permission of the instructor in consultation with the student’s advisor. All business courses must be completed before participating in the internship.

BSAD 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN BUSINESS

Fall/Spring, 1-4 credit hours

Special Topics in Business will generally include topics of current interest or topics not covered in courses currently offered by the Department or in combinations not currently available. Prerequisite: permission of the instructor.

CHEM 100
INTRODUCTION TO CHEMISTRY LABORATORY
Fall/Spring, 1 credit hour

This is a laboratory course to accompany CHEM 101. The activities and experiments in this course are hands-on applications of the concepts covered in CHEM 101. It is designed for those students who have had little or no chemistry laboratory experience. Students must enroll in both CHEM 101 and CHEM 100 simultaneously, unless they have previously passed one of the courses. Students must also pass both CHEM 101 and CHEM 100 to receive Natural Science General Education credit. Two hours laboratory per week. Corequisite: Introduction to Chemistry (CHEM 101), or permission of instructor. If a student withdraws from CHEM 101 prior to the last day to withdraw, withdrawing from this course is required.

CHEM 101
INTRODUCTION TO CHEMISTRY Fall/Spring, 3 credit hours

This is an overview of chemistry which will include atomic structure, English-metric unit conversions, chemical nomenclature, the mole concept, stoichiometry, chemical reactions, physical behavior of gases, solutions, acid-base theory, and nuclear chemistry. It is designed for those students who have little or no chemistry background. Three hours lecture per week. Conditions: For students who did not pass the NYS Chemistry Regents exam (<65), or who did not take HS chemistry. Prerequisite: Beginning Algebra (MATH 100) or high school equivalent, or permission of instructor.

CHEM 107
INVESTIGATIVE CHEMISTRY LABORATORY
Spring, 1 credit hour

This is a laboratory course to accompany Investigative Chemistry (CHEM 107). The course provides scientific laboratory experiences in chemistry relevant to forensic science. Each exercise involves the collection of data, manipulation of the collected data, and analysis of the data. Experiments include density of plastic material, chromatographic analysis of ink, types of chemical reactions, factors that affect the rate of chemical reactions, detection of common gases, spectroscopic analysis of analgesics, qualitative analysis of blood and urine, breathalyzer test, detection of blood, heat capacity of building materials, fingerprint development methods, and detection of gunshot residue. Two hours laboratory per week. Corequisite: Investigative Chemistry (CHEM 107), or permission of instructor. A student cannot receive credit for both CHEM 108 and CHEM 100. If a student withdraws from CHEM 107 prior to the last day to withdraw, withdrawing from this course is required.

CHEM 120
GENERAL, ORGANIC, AND BIOCHEMISTRY
Fall/Spring, 3 credit hours

An integration of general chemistry, organic chemistry and biochemistry providing the student with a basic understanding of chemical processes and knowledge useful in a variety of degree programs. Topics include matter/atomic structure review, chemical bonding, intermolecular forces, physical behavior of gases, solutions, chemical kinetics, chemical equilibrium, acids and bases, chemical thermodynamics, free energy concepts, and nuclear chemistry. Three hours lecture, three hours laboratory per week. Prerequisites: College Chemistry I (CHEM 150) or permission of instructor.

CHEM 150
COLLEGE CHEMISTRY I
Fall, 4 credit hours

This is the first semester of a two-semester college level course in chemistry. Topics include atomic structure, the periodic chart, moles, chemical reactions, stoichiometry, aqueous solutions, gas laws, gases in the atmosphere, thermodynamics, and chemical bonding theory. Three hours lecture, three hours laboratory per week. Prerequisites: NYS Chemistry Regents Exam of 65 or above or Introduction to Chemistry (CHEM 101/100) or Investigative Chemistry (CHEM 107/108), and Intermediate Algebra (MATH 106) or high school equivalent, or permission of instructor.

CHEM 155
COLLEGE CHEMISTRY II
Spring, 4 credit hours

This is the second semester of a two semester college level course in chemistry. Topics include bonding, intermolecular forces, solutions, chemical kinetics, chemical equilibrium, acids and bases, chemical thermodynamics, free energy concepts, and nuclear chemistry. Three hours lecture, three hours laboratory per week. Prerequisites: College Chemistry I (CHEM 150) or permission of instructor.

CHEM 301
ORGANIC CHEMISTRY I
Fall, 4 credit hours

Organic Chemistry I is the first semester of a two semester sequence of organic chemistry which is applicable for Liberal Arts: Science and Engineering Science curricula. The lecture portion of the course will include chemical bonding, acid/base theory, thermodynamics, kinetics, organic structure, isomerism, stereochemistry, infrared spectroscopy, CMR/PMR nuclear magnetic resonance spectroscopy, mass spectroscopy, nomenclature principles, and the chemistry of several organic chemical functional groups. The laboratory portion of the course will include methods of purification/separation of
organic chemicals, chemical kinetics, instrumental analytical techniques, and several organic syntheses. Three hours lecture, three hours laboratory per week. Prerequisite: College Chemistry II (CHEM 155) or permission of instructor.

CHEM 302
ORGANIC CHEMISTRY II
Spring, 4 credit hours
This course is a continuation of Organic Chemistry I. The lecture portion of the course will include oxygen containing functional groups, aromaticity, benzene and its derivatives, carbanions, nitrogen containing functional groups, heterocyclics, and nuclear magnetic resonance. The laboratory portion of the course will consist of organic syntheses and qualitative organic analysis. Three hours lecture, three hours laboratory per week. Prerequisite: Organic Chemistry I (CHEM 301) or permission of instructor.

CHEM 430
BIOCHEMISTRY
Fall, 4 credit hours
This course provides an introduction to the structure and function of biological macromolecules, bioenergetics, and transfer of genetic information. Emphasis will be on protein structure and function, enzyme catalysis, an overview of energy metabolism, and the maintenance and expression of genetic information. Three hours lecture, three hours laboratory per week. Prerequisite: Organic Chemistry II (CHEM 302) or permission of instructor.

CHEM 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN CHEMISTRY
Fall/Spring, 1–4 credit hours
Special Topics in Chemistry will generally include topics of current interest or topics not covered in courses currently offered by the Department or in combinations not currently available.

CITA 100
COMPUTER FLUENCY
Fall/Spring, 3 credit hours
This course provides computing knowledge through the introduction of basic computing concepts by simulating a computer gaming environment and project based activities. The course is intended for students who do not meet the minimum academic requirements to enter either the Computer Information Systems or Information Technology majors but desire to pursue a major in one of those programs. Three hours lecture per week.

CITA 101
LIBRARY/INFORMATION LITERACY
Fall/Spring, 1 credit hour
This course will focus on the organization, use, and retrieval of information, both within and outside of the library. Students will gain an understanding of the characteristics of information and be able to locate and critically evaluate it. Instruction will focus on both print and electronic information resources. Two hours lecture per week.

CITA 102
INTRODUCTION TO WORLD WIDE WEB
Fall/Spring, 1 credit hour
This course will introduce students to the World Wide Web (WWW) and Microsoft Outlook. This course will offer instruction on how to use Internet Explorer and Microsoft Outlook for searching information on the Internet, send and receive e-mail, maintain a contact list, keep a calendar, and schedule meetings and events. Two hours lecture per week for seven weeks.

CITA 103
INTRODUCTION TO WORLD WIDE WEB
Fall/Spring, 1 credit hour
This course will introduce students to the World Wide Web (WWW) and Microsoft Outlook. This course will offer instruction on how to use Internet Explorer and Microsoft Outlook for searching information on the Internet, send and receive e-mail, maintain a contact list, keep a calendar, and schedule meetings and events. Two hours lecture per week for seven weeks.

CITA 104
INTRODUCTION TO DATABASE
Fall/Spring, 1 credit hour
This course introduces the student to the fundamentals of database programs. Students will be exposed to the creation, maintenance and organizing of a database. The students will also create listings and reports. Two hours lecture per week for seven weeks.

CITA 105
INTERMEDIATE DATABASE
Fall/Spring, 1 credit hour
This course is designed to increase the students’ knowledge of database fundamentals using an industry standard database package as the instructional platform. The student will learn to work with lists, pivot tables, object linking and embedding, developing a complete worksheet application and macro writing. Two hours lecture per week for seven weeks. Prerequisite: Introduction to Database (CITA 104) or permission of instructor.

CITA 106
INTRODUCTION TO WORD PROCESSING
Fall/Spring, 1 credit hour
This course is designed to help the student attain the necessary skills and knowledge needed for effective operation of word processing software and equipment. This course will introduce concepts of word processing equipment, input, output, storage and retrieval, distribution and software. Major emphasis will be put on hands-on experience. Two hours lecture per week for seven weeks.

CITA 107
INTERMEDIATE WORD PROCESSING
Fall/Spring, 1 credit hour
This course is designed to help the student attain advanced skills and knowledge needed for effective operation of word processing software and equipment. Major emphasis will be put on hands-on experience in learning how to design letterheads and newsletters, understanding the merging process, and creating tables. Two hours lecture per week for seven weeks. Prerequisite: Introduction to Word Processing (CITA 106) or permission of instructor.

CITA 108
INTRODUCTION TO SPREADS SHEETS
Fall/Spring, 1 credit hour
This course introduces the student to the fundamentals of spreadsheet programs. Students will create spreadsheets with literal and numeric data. The numeric data will be constants and/or formulas. Printing of spreadsheets will also be covered. Creating line, bar, stacked bar and pie graphs from a spreadsheet will also be included in the course. Two hours lecture per week for seven weeks.

CITA 109
INTERMEDIATE SPREADSHEETS
Fall/Spring, 1 credit hour
This course is designed to increase the students’ knowledge of spreadsheet fundamentals using an industry standard spreadsheet package as the instructional platform. The student will learn to work with lists, pivot tables, object linking and embedding, developing a complete worksheet application and macro writing. Two hours lecture per week for seven weeks. Prerequisite: Introduction to Spreadsheets (CITA 108) or permission of instructor.

CITA 110
INTRODUCTION TO INFORMATION TECHNOLOGY
Fall/Spring/Summer, 3 credit hours
This course is an introduction to information technology focusing on microcomputer applications and application software. It includes word processing, spreadsheet, database, electronic presentation and an introduction to HTML. Personal computer terminology, hardware system components, operating systems, and current web applications are covered. Hands-on experience is utilized throughout. A student who completes CITA 110 may not receive credit for any of the following one-credit courses in a degree program: CITA 106 Introduction to Word Processing, CITA 108 Introduction to Spreadsheets, nor CITA 112 Introduction to Electronic Presentations. Successful completion of this course will fulfill the SUNY Canton Computer Competency graduation requirement. Two hours lecture, two hours laboratory per week.

CITA 111
WEB PAGE DEVELOPMENT
Fall/Spring, 2 credit hours
This course will introduce students to the development process of web pages. The student will learn how to create and edit text (HTML) with a web authoring tool. They will learn how to use a draw/graphics software program to create, edit and use various types of graphic images (GIF & JPEG) to help maintain the “surfer’s” interest. The student will learn how to setup and maintain hyperlinks to various sites and within the original document. Also, the student will learn how to create and use tables, image maps, thumbnails and animated GIFs. Two hours lecture per week. Prerequisite: Introduction to World Wide Web (CITA 103) or permission of instructor.
CITA 112
INTRODUCTION TO ELECTRONIC PRESENTATIONS
Fall/Spring, 1 credit hour
This course is designed to show the student how to use desktop presentation software to prepare professional-looking presentations, combining text, charts and graphics. The student will also learn how to create typical business charts using a spreadsheet and enhancing those charts with additional software. You will experiment with animation using a drawing program, and create a presentation using various types of charts and show it to the entire class. Two hours lecture per week for seven weeks.

CITA 116
VERIZON COMPUTER APPLICATIONS
Fall, 3 credit hours
This course is an introductory course in basic computer orientation to hardware and implementation of software applications in telecommunications. Students use various software packages to create documents, spreadsheets, graphs, and presentations. The student utilizes this knowledge to solve problems and transfer information via electronic media. Successful completion of this course satisfies the SUNY Canton Computer Competency requirement. Three hours lecture per week. Prerequisite: Permission of instructor.

CITA 152
COMPUTER LOGIC
Fall/Spring, 3 credit hours
This course provides a background in logical problem solving skills used in computing. Topics include problem solving techniques, number systems, programming concepts, relational and logical operators. Three hours lecture per week. Prerequisite: Level 2 half algebra (MATH 106) and Oral and Written Expression (ENGL 102) or permission of instructor.

CITA 163
SURVEY OF INFORMATION TECHNOLOGY
Fall/Spring, 3 credit hours
An introductory survey of Information Technology (IT) and IT terminology. Emphasis is given to current and emerging technologies. Topics include: computer system components, communications and networks including the Internet, basic concepts in programming languages, information system development, IT impact on society, security, privacy, and ethics. Three hours lecture per week.

CITA 170
COMPUTER CONCEPTS AND OPERATING SYSTEMS
Fall/Spring, 3 credit hours
This is a study of the terminology and concepts associated with computer systems hardware and software. Topics will include: system hardware components, memory organization and management, operating systems, troubleshooting fundamentals, etc. Students will construct PCs and install, configure, test and troubleshoot system software to apply the various concepts covered in the course. Two hours lecture, two hours laboratory per week.

CITA 171
OPERATING SYSTEM FUNDAMENTALS
Fall/Spring, 3 credit hours
This is a project intensive course covering current operating systems. The projects in this course are designed to give students an overview of operating systems, and will encompass the major aspects of operating systems. This course may be used as a first step for students wishing to obtain industrial certification for current operating systems. Three hours lecture per week in a computer classroom. Prerequisite: Computer Logic (CITA 152); corequisite: Computer Concepts and Operating Systems (CITA 170); or permission of instructor.

CITA 180
INTRODUCTION TO PROGRAMMING
Fall/Spring, 4 credit hours
This course develops methodologies and techniques for program creation and implementation. Writing high-quality, internally-documented, well-structured programs utilizing appropriate data structures is emphasized. Prerequisite: Computer Logic (CITA 152) or permission of instructor.

CITA 202
COMPUTER USER SUPPORT CONCEPTS AND SKILLS
Fall/Spring, 3 credit hours
People interested in becoming a computer support specialist or systems administrator must have strong problem-solving, analytical, and communication skills because troubleshooting and helping others are vital parts of the job. This course prepares the support specialist to maintain customer satisfaction by focusing on the needs of the customer, establishing credibility and trust, and by handling the most difficult customer scenarios. Emphasis is given to problem solving and troubleshooting, team dynamics, and interpersonal communication skills. It also provides a broad overview of the back-office operations of a help desk, and exposes the student to common industry tools and technologies used in providing exceptional customer support. Three hours lecture per week. Prerequisite: One computer related course or permission of instructor.

CITA 204
SYSTEMS ANALYSIS AND DESIGN
Spring, 3 credit hours
A course designed to guide the student through the evolution of a system; an analysis of the present flow of information; and the specifications, selection and implementation of information processing systems. The scope of a system development study will transcend mere knowledge of specific systems to include a study of the total management system. Three hours lecture per week. Prerequisite: Survey of Information Technology (CITA 163), Introduction to Programming (CITA 180), and Database Systems with Web Applications (CITA 215), or permission of instructor.

CITA 215
DATABASE SYSTEMS WITH WEB APPLICATIONS
Spring, 3 credit hours
Database management systems are studied in the context of an SQL-based product. Topics include: logical organization versus physical organization; relational, network and hierarchical models; normalization; and the creation of a web-based user-interface to manipulate tables. A term project is assigned. Two hours lecture, two hours laboratory per week. Prerequisite: Computer Logic (CITA 152) or permission of instructor.

CITA 220
DATA COMMUNICATIONS AND NETWORK TECHNOLOGY
Offered as needed, 3 credit hours
A study of terminology, hardware and software associated with data communications and network technology. Areas of study will include design principles for human-computer dialogue, selection criteria for communications devices, the technology of data transmission, techniques and message protocols for line control and error processing, local area net works, networking concepts, network topologies and access control, network performance, network services and design issues, and network media and access methods. Design, configuration, operation and maintenance questions are explored. Topics will include end-user perspective, network operating systems, cabling, hardware protocols, software and applications, design, and administration. This course should be taken concurrently with Data Communications and Network Technology Lab (CITA 221). Three hours of lecture per week. Prerequisites: Operating System Fundamentals (CITA 171), Intermediate Algebra (MATH 106), or permission of instructor.

CITA 221
DATA COMMUNICATIONS AND NETWORK TECHNOLOGY LAB
Offered as needed, 1 credit hour
This laboratory course is to accompany the lectures of CITA 220 Data Communications and Network Technology course. Students will obtain hands-on experience on data communications and network technology throughout this course. Two hours laboratory per week. Prerequisites: Operating System Fundamentals (CITA 171), Intermediate Algebra (MATH 106) or permission of instructor.

CITA 250
INFORMATION SECURITY
Fall/Spring, 3 credit hours
An introduction to various technical and administrative aspects of Information Security and Assurance. Students will be exposed to the spectrum of Information Security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses and an overview of Information Security planning and
staffing functions. Three hours lecture per week. Prerequisite: Data Communications and Network Technology (CITA 220) or permission of instructor.

CITA 260
INTRODUCTION TO WIRELESS TECHNOLOGY
Spring, 3 credit hours

This course introduces various aspects of wireless technology including wireless networks, authentication, protocols, security, installation considerations, and standards. Projects to determine signal strengths from different antenna types and locations are assigned. Three hours lecture per week. Prerequisite/ corequisite: Data Communications and Network Technology (CITA 220) or permission of instructor.

CITA/MINS 300
MANAGEMENT INFORMATION SYSTEMS
Fall/Spring, 3 credit hours

Students learn the concepts underlying the design, implementation, control, evaluation, and strategic use of modern, computer-based information systems for business data processing, office automation, information reporting, decision-making, and electronic commerce. The major emphasis of the course will be on the managerial and strategic aspects of information technology. Three hours lecture per week. Prerequisites: Junior standing or the sum of credits earned and credits currently enrolled in is at least 60 or permission of instructor.

CITA/MINS 307
CUSTOMER RELATIONSHIP MANAGEMENT
Fall/Spring, 3 credit hours

This course provides information systems tools for building a customer-focused organization based on customer data and information. The course focuses on using current data to enhance relationships with customers, gathering data for future marketing endeavors and providing strategic guidance to the organization. The course provides insights into customer life-cycle management, customer lifetime value and measuring customer profitability. Three hours lecture per week. Prerequisites/corequisites: Management Information Systems (CITA/MINS 300) or permission of instructor.

CITA 310
WEB SERVER ADMINISTRATION
Fall, 3 credit hours

A comprehensive survey of all aspects of web server administration. Students will gain hands-on experience by actually installing and administering their own web servers in a lab environment. Topics include: server installation and configuration, site planning, supporting dynamic content with CGI’s and ASP’s server maintenance and site security. Two hours lecture, two hours laboratory per week. Prerequisite: Data Communications and Network Technology (CITA 220) or permission of instructor.

CITA/MINS 315
DECISION SUPPORT SYSTEMS
Fall/Spring, 3 credit hours

This course enables the student to turn raw data into information to help an organization’s managers make decisions. Students will develop decision making analytical models to provide organizational leaders with potential outcomes and their effects. Students will study the network’s role in distributed systems, distributed systems development tools, and distributed systems issues. Students will apply data-mining techniques supporting knowledge-management decisions. Three hours lecture per week. Prerequisites/corequisites: Management Information Systems (CITA/MINS 300) or permission of instructor.

CITA/MINS 320
INTRODUCTION TO DATA MINING
Spring, 3 credit hours

A systematic introduction to the basic principles, applications, techniques and models of data mining including classification, estimation, prediction, affinity grouping, clustering, description and profiling. The emphasis is on various data mining problems and their solutions. Students will also be exposed to a sample of data mining applications. Topics include decision trees, artificial neural networks, nearest neighbor approaches, market basket analysis, and association rules. Three hours lecture per week. Prerequisites/corequisites: Introduction to Database (CITA 104) or Database Systems (CITA 215) and Statistics (MATH 141) or permission of instructor.

CITA 330
EMERGING INFORMATION TECHNOLOGY APPLICATIONS
Spring, 3 credit hours

An advanced study of emerging information technology applications. This course covers web application development with XML, multimedia technologies including graphics, audio, animation, video, presentations, desktop publishing, web publishing, and input technologies including speech, and writing recognitions. The course will also include additional topics on most current state-of-the-art IT applications. Two hours lecture, two hours laboratory per week. Prerequisite: junior level status or permission of instructor.

CITA 342
VISUAL PROGRAMMING AND DEVELOPMENT TOOLS
Fall, 3 credit hours

An introduction to the development of computer applications using rapid development tools such as Visual Basic or Visual C++. Emphasis will be on designing and managing graphical user interface, procedures, file management, debugging and testing. Two hours lecture and two hours lab per week. Prerequisite: Introduction to Programming (CITA 180) or permission of instructor.

CITA 352
ETHICAL HACKING AND PENETRATION TESTING
Fall/Spring, 3 credit hours

This course introduces students to a wide range of topics related to ethical hacking and penetration testing. The course provides an in-depth understanding of how to effectively protect computer networks. The topics cover the tools and penetration testing methodologies used by ethical hackers and provide a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Three hours lecture per week in a computer classroom. Prerequisites: Information Security (CITA 250) or permission of instructor.

CITA/JUST 365
DIGITAL FORENSIC ANALYSIS
Fall/Spring/Summer, 3 credit hours

This course is designed to prepare the student to complete forensic analysis of digital media and to understand the process and technical challenges of internet investigations. The course looks specifically at how to obtain evidence from digital media, how to process network messages and logs while preserving the evidentiary chain, and the legal aspects of the search and seizure of digital media and related equipment and information. Two hours lecture and two hours laboratory per week. Prerequisites: Introduction to IT (CITA 110) or higher level CITA course and junior level status or permission of instructor.

CITA 400
QUANTITATIVE APPROACHES TO MANAGEMENT
Spring, 3 credit hours

This is the study of the decision-making process and how quantitative methods are used to find solutions to business problems. Computer software tools will be used to analyze and process data. Opportunities, problems and decisions that confront managers are analyzed and solutions are developed. Topics covered include, but are not limited to: cost-volume-profit analysis, forecasting, decision theory, linear programming, probability concepts and applications, inventory control, queuing theory, and game theory. Two hours lecture, two hours laboratory per week. Prerequisite: Statistics (Math 141) or permission of department.

CITA 420
PROGRAMMING FOR THE WEB
Fall, 3 credit hours

This is a survey of programming languages and techniques for web development. Topics include CGI’s, client-side programming with JavaScript, dynamic content using Java and ActiveX, server-side programming using Active Server Pages and VB Script, creating dynamic, database driven content, and developing web based client/server database applications. Two hours lecture, two hours laboratory per week. Prerequisites: Web Server Administration (CITA 310) and Emerging Information Technology Applications (CITA 330), or permission of instructor.
CITA/MINS 425  
ENTREPRISE RESOURCE PLANNING  
Fall/Spring, 3 credit hours  
This course provides information systems tools to ensure a comprehensive resource planning system for all functions of businesses. The course will discuss the development and employment of enterprise resource planning for marketing, accounting, supply chain management, and human resources. Content will focus on practical applications of enterprise resource planning to ensure businesses get the greatest returns on information systems investment. Three hours lecture per week. Prerequisite/corequisites: Management Information Systems (CITA/MINS 300) and junior level status or permission of instructor.

CITA/MINS 430  
DATA AND KNOWLEDGE MANAGEMENT  
Fall/Spring, 3 credit hours  
This course focuses on the development of a knowledge-management system using an organization's tacit and explicit knowledge to execute its strategy. The course explores practices entailed in developing a knowledge infrastructure, managing the interaction of people and technology, valuing knowledge assets, leveraging teams, and transferring knowledge across organizations. Three lecture hours per week. Prerequisites/corequisites: Management Information Systems (CITA/MINS 300) and junior level status or permission of instructor.

CITA 440  
NETWORK MANAGEMENT  
Spring, 3 credit hours  
An advanced study of network management concepts, architectures, protocols, models, tools, systems, and applications. The course concentrates on the implementation of the Simple Network Management Protocol (SNMP). Students are also introduced to the use of the Desktop Management Interface (DMI) standard and Web-based Management. Three hours lecture per week. Prerequisites/corequisites: Network Technology (CITA 230) or permission of instructor.

CITA 460  
INFORMATION TECHNOLOGY AND NETWORKED ECONOMY  
Fall, 3 credit hours  
This course will examine the fundamental concepts and components of Information Technology from both managerial and professional end-user perspective. The course will also explore the foundations of information systems to the demands of electronic commerce, connectivity, and networked economy. Three hours lecture per week. Prerequisite: senior level status in a four-year program or permission of instructor.

CITA 479  
INFORMATION TECHNOLOGY INTERNSHIP ORIENTATION  
Fall/Spring, 1 credit hour  
This course is designed as the precursor to the Senior Culminating Experience for seniors in the Information Technology program. Seniors will meet on a weekly basis with faculty to discuss resume preparation, job interviewing, locating and establishing internships, and internship requirements. This course is a prerequisite to Internship in Information Technology (CITA 480). One hour lecture per week. Prerequisites/corequisites: all upper-level Information Technology core courses.

CITA 480  
INTERNSHIP IN INFORMATION TECHNOLOGY  
Fall/Spring, 6 or 12 credit hours  
This is supervised field work in a selected business, industry, government or educational setting. Students carry out a planned program of educational experiences under direct supervision of an owner, manager or supervisor of information technology in an organization. Each intern will be supervised by a member of the faculty on a regular basis. Written and oral reports of work experience activities will be required. Evaluation will be based on the quality of experiences gained from the internship. Approximately 600 hours of supervised activity. Prerequisites: Information Technology Internship Orientation (CITA 479) and senior level status in the Information Technology program or permission of instructor.

CITA 481  
SENIOR PROJECT IN INFORMATION TECHNOLOGY  
Fall/Spring, 6 credit hours  
The course requires extensive project development work to integrate the specialized skills and knowledge presented throughout other courses in the Information Technology curriculum. Under the guidance of a faculty mentor, the student will prepare a project proposal, conduct literature review and project implementation, submit a project report, and make an oral presentation. At least 225 project activity hours needs to be fulfilled. Corequisite: Information Technology and Networked Economy (CITA 460). Prerequisites: Information Technology Internship Orientation (CITA 479), and senior level status in Information Technology program, or permission of the program director.

CITA 291-295, 391-395, OR 491-495  
SPECIAL TOPICS IN COMPUTING  
Fall/Spring, 1-4 credit hours  
Special Topics in Computers will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available. Prerequisite: permission of the instructor.

CONS 101  
ELEMENTARY SURVEYING  
Fall, 4 credit hours  
Course consists of both lecture and laboratory periods. Lectures include the developmental history of the surveying profession, along with the underlying principles of basic theory and practice. Realistic exercises involving linear and angular measurements, leveling, field-book recording, construction layout, and traversing are performed in the outside laboratory. Computation of errors, adjustments for instrument misalignment and weather are included in the laboratory exercises. Conversion of measurements and use of the S.I. system is also included. Students have ample opportunity for hands-on training with the extensive variety of equipment utilized in the course. Field parties are of limited size and offer “one-on-one” instruction opportunity. Three hours lecture, three hours laboratory per week. Prerequisites: Intermediate Algebra (MATH 121) plus a beginning physics course or permission of instructor.

CONS 111  
COMMERCIAL STRUCTURES  
Spring, 3 credit hours  
The study of construction materials, practices, equipment, and terminology used in the commercial construction field. Lectures and laboratory periods develop theory and practice in excavation, foundation form work, use of reinforcing steel in concrete, erection of steel frame buildings, commercial wall and roof systems, interior and exterior wall finishes, and commercial building materials. Field trips to be arranged when practical. Two hours lecture, three hours laboratory per week.

CONS 112  
WOOD STRUCTURES  
Fall, 3 credit hours  
The study of construction materials, practices, equipment and terminology used in buildings requiring wood framing. Lectures and laboratory periods develop theory and practice in layout and assembly of wood framing of floors, walls, roofs and trusses, and siding materials. Construction of a 2-stall garage and/or small storage shed will serve as an application of wood framing and exterior finish fundamentals. Students will perform an individual research project with a written report. One or more field trips will be arranged.

CONS 132  
CONSTRUCTION DRAFTING  
Spring, 3 credit hours  
An introduction to the fundamental principles of engineering and architectural drafting and to the basic idea that all people involved in engineering and/or construction will communicate with drawings of some nature. It is intended that the student will have exposure to orthographic projection, perspective and isometric views, descriptive geometry, good drafting practices and engineering lettering. It is also intended to expose the student to a variety of construction prints so as to create the ability to deal with all varieties of drawings commonly emanating from architectural/engineering firms and found on construction job sites. In conjunction with manual drawing, the student applies CAD (computer aided drafting) throughout the course. One hour lecture, four hours laboratory per week.
Course Descriptions: CIVIL/CONSTRUCTION

CONS 151 BUILDING TRADES—BLUEPRINT READING AND DRAFTING
Fall, 2 credit hours

Instruction includes understanding the fundamental concepts in freehand sketching and instrument drawing needed for communication in the construction industry. Orthographic projection, pictorials and perspective drawing techniques will be introduced. A variety of drawings will be studied in order to become familiar with information contained on them and how they are interpreted. CERTIFICATE/AAS ELECTIVE CREDIT ONLY. One hour lecture, two hours laboratory per week.

CONS 172 TECHNICAL STATICS
Spring, 3 credit hours

Provides application of Newton's First and Third Laws of motion in the force analysis of statically determinate structures such as pinned connections, trusses, beams, frames, and cables. The determination of centroids and moment of inertia is also covered. The course requires extensive application of geometry, trigonometry and algebra. The course provides fundamentals that are used in structural mechanics/strength of materials. Two hours lecture, two hours recitation per week. Prerequisites: College Algebra (MATH 121), College Physics I (PHYS 121), or permission of instructor.

CONS 203 ADVANCED SURVEYING
Fall, 4 credit hours

This course emphasizes fundamentals of field and office procedures used in the construction industry. Major topics covered are: mapping procedures, topographic survey methods, area determinations by coordinates, determination of volumes for earthworks, horizontal and vertical control necessary for mapping and building layout, horizontal (circular) curves, vertical (parabolic) curves, and principles of boundary surveying. The student uses modern surveying equipment in field sessions, including total stations, automatic levels and lasers, geographic positioning satellite receivers and integrated mapping and surveying software for data analysis and map compilation. Two hours lecture, six hours laboratory per week (one field section and one CAD drafting section). Prerequisite: Elementary Surveying (CONS 101) or permission of instructor.

CONS 220 ENGINEERING MATERIALS
Spring, 3 credit hours

A study of the wide spectrum of materials used in manufacturing of discrete parts and machines. Material structure, characteristics, mechanical properties and applications will be stressed for ferrous and non-ferrous metals, plastics, and composites. Two hours lecture, three hours laboratory per week. Prerequisites: College Algebra (MATH 121) and College Physics I (PHYS 121) or permission of instructor.

CONS 222 CONSTRUCTION ESTIMATING
Fall, 2 credit hours

An introduction to estimating the costs of construction. Includes quantity take-off from construction plans, unit pricing of labor, material, and equipment, and extensions based on unit prices derived from industry accepted resources such as RS Means and Timberline. The CSI Master format is introduced as a method of approach and organization. One hour lecture, two hours laboratory per week. Prerequisites: Computer Usage for Technicians (SOET 101), Commercial Structures (CONS 111), and Intermediate Algebra (MATH 106), or Technical Math 1 (MATH 135), or permission of instructor.

CONS 226 BRIDGE BUILDING
Spring, 1 credit hour

Students are challenged to an intercollegiate bridge building competition that includes design, fabrication, and construction. Participating students gain practical experience in structural design, fabrication processes, construction planning, organization, and teamwork. Students will essentially design and construct a 21-foot long steel bridge that is both light and strong, and capable of supporting 2,500 pounds. The class will use their bridge design to represent SUNY Canton's entry in the regional competition. Students meet for 45 hours per semester with classes scheduled according to the demands of the competition. Prerequisites: enrollment in a Canino School of Engineering Technology curriculum and permission of the instructor.

CONS 233 STRUCTURAL DRAFTING
Fall, 3 credit hours

An introduction to the preparation of drawings typically used in the structural design industry. The greatest emphasis is on the creation of structural steel details. Detailing of timber and reinforced concrete structures will also be presented and performed. The lab work engages the student with "AutoCad Revit" for structures. Building Information Modeling (BIM) is introduced. Some structural design is required. One hour lecture, four hours laboratory per week. Prerequisites: Introduction to Computer Aided Drafting and Design (SOET 116) or equivalent introductory course in the use of CADD, and Strength of Materials for Engineering Technicians (CONS 272), or permission of instructor.

CONS 235 CONCRETE TECHNOLOGY
Fall, 3 credit hours

The course is designed to provide an in-depth understanding in all steps required to design, produce, transport, place and cure quality concrete. The laboratory is used for the testing of the aggregates and concrete specimens in accordance with ASTM standards and the ACI code, and form design is studied. Two hours lecture, three hours laboratory per week.

CONS 272 STRENGTH OF MATERIALS FOR TECHNICIANS
Fall, 3 credit hours

The concepts of stress and strain are introduced and, in combination with statics principles, are used in the analysis of structural elements. Material properties such as ultimate strength, yield strength, elastic modulus, shear strength, torsional strength, and compressive strength are investigated using physical testing. The process of selecting structural elements such as pins, bolts, tension members, compression members, beams and shafts based on strength and factor of safety is presented and practiced. Two hours lecture, two hours recitation per week. Prerequisites: Technical Statics (CONS 172), Calculus I (MATH 161) or permission of instructor.

CONS 274 CONSTRUCTION MANAGEMENT
Spring, 3 credit hours

Construction management fundamentals and their applications to the conduct of a construction business. The basics of estimating, scheduling methods and expediting field operation, along with construction contracts are studied. Three hours lecture per week.

CONS 285 ENGINEERING GEOLOGY
Spring, 4 credit hours

This course introduces engineers to earth processes and phenomena that impact the design, construction, and performance of engineered structures. Students learn to identify common earth materials, study the mechanical properties of rocks, and learn how earth materials respond to stress and strain resulting from natural forces and engineered structures. The impact of weather, erosion, landforms, structural deformation, earthquakes, and coastal processes on engineered structures are studied. The natural stability of slopes and mass movement hazards that impact the design and construction of structures are discussed. Additional topics include, but are not limited to: the development and composition of earth, geologic time, geologic mapping, an introduction to soil mechanics, and an introduction to surface water and groundwater principles. Laboratory exercises reinforce lecture material; and provide students with skills required by field engineers. Three hours of lecture, two hours of laboratory per week. Prerequisites: College Algebra (MATH 121) or permission of instructor.

CONS 294 SOIL INVESTIGATION
Spring, 3 credit hours

The basic properties of soil that affect construction activities are presented. Subject areas include physical condition of the soil, soil phase conditions, basic soil tests, soil classification systems, soil and water relationships, soil strength concepts, and settlement and compressibility. The laboratory work consists of standard test procedures including moisture content, specific gravity, sieve analysis, Atterberg Limits tests, compaction tests, percolation
tests and in-place density tests. Two hours lecture, three hours laboratory per week. Prerequisite: completion of Intermediate Algebra (MATH 106) or permission of instructor.

CONS 304
REINFORCED CONCRETE DESIGN
Spring, 4 credit hours

In this course, the fundamentals of cast-in-place reinforced concrete design by the strength design method are introduced. Students design slabs, beams, girders, columns and footings in accordance with current version of American Concrete Institute Code 318. Computations are done by manual methods and spreadsheets. Students are introduced to design software. In the lab, students work through the complete design of a small multi-story commercial building. Three hours lecture, three hours laboratory per week. Prerequisites: Structural Analysis II (CONS 336) or permission of instructor.

CONS 314
SOIL MECHANICS
Spring, 4 credit hours

Students initially learn about soil types, soil properties, and basic soil property tests. The remainder of the course covers advanced topics in soil mechanics. The methods of compaction, consolidation, and settlement of soil are discussed. Students learn about soil and slope stabilization techniques and design. Soil-supported foundations for buildings and structures are discussed, which include different foundation types, design methods and considerations, and installation criteria and methods. Students learn about lateral earth pressures and design of retaining structures. Methods and safety precautions for excavations are also covered. The laboratory component of the course explores soil testing methods and analytical design problems related to lecture topics. This is a writing intensive course. Three hours lecture, two hours laboratory per week. Prerequisites: Calculus I (MATH 161), Strength of Materials (CONS 272), or permission of instructor.

CONS 322
HYDRAULICS
Spring, 4 credit hours

The basics of fluid mechanics and their application to Civil Engineering Technology are considered. Fundamental concepts presented are fluid properties, specific weight, density, specific gravity, absolute and kinematic viscosity. Major topic areas covered are: resultant force and center of pressure on submerged surfaces, flow of liquids in closed conduits including pressure losses and pump requirements, flow in open channels and sewer design and flow and pressure measurement techniques. Three hours lectures, one three-hour laboratory per week. Prerequisites: Strength of Materials for Technicians (CONS 272) or permission of instructor.

CONS 324
STRUCTURAL STEEL DESIGN
Fall, 3 credit hours

An introduction to the theory, analysis and design of the elements that comprise structural steel buildings. Instruction follows the specifications and selection elements as provided in the American Institute of Steel Construction (AISC) Manual of Steel Construction. Subject areas include determination of controlling load combinations, analysis and selection of tension members, analysis and selection of flexural members, analysis and selection of compression members, fastener strength and connection design and combined bending and axial stresses (beam-columns). Two hours lecture, two hours recitation per week. Prerequisites: Engineering Materials (CONS 220), Structural Analysis I (CONS 236), Strength of Materials for Technicians (CONS 272), Civil Engineering Materials (CONS 280), or permission of instructor.

CONS 336
STRUCTURAL ANALYSIS
Fall, 3 credit hours

This course covers the introduction to the analysis of statically determinate beams and rigid frames. Methods taught include slope deflection, moment areas, three moment equation, and moment distribution. The development of influence lines is introduced. Most work is done by manual calculation, graphical methods and spreadsheets; however students are introduced to computer software for analysis of statically determinate beams. Three hours lecture per week. Prerequisites: Strength of Materials for Technicians (CONS 272), Calculus II (MATH 162), or permission of instructor.

CONS 338
ADVANCED MECHANICS OF MATERIALS
Spring, 3 credit hours

This course includes analysis of statically indeterminate structures and deflections using the principle of virtual work. Special topics in stress analysis such as internal loads due to temperature, torsion, unsymmetrical bending circumferential stresses, buckling and beams on an elastic foundation are included. The finite element method is introduced. Three hours lecture per week. Prerequisites: Structural analysis II (CONS 336) or permission of instructor.

CONS 350
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS
Spring, 3 credit hours

The course introduces students to GIS terminology, the concept of relational databases, spatial data models, topology, raster data and vector data. Data entry methods including quality control and metadata are discussed. The student is introduced to spatial analysis applications including terrain analysis, data manipulation and visualization. Students apply knowledge in the laboratory using GIS software. Prerequisites: Computer Applications for Technicians (SOET 110) or good working knowledge of spreadsheet applications.

CONS 366
STRUCTURAL STEEL DETAILING
Fall, 3 credit hours

An acquaintance with the properties, dimensions, and characteristics of present day shapes and forms is achieved by making detail and erection drawings reflecting present day fabrication and erection procedures for structural steel. Mill practices, tolerances, and billings are considered. Proper drafting techniques are observed. Selection and detailing of beams, girders, columns, and connections is carried out. Drawing prints of columns and connections is carried out. Drawing prints are made for checking purposes from the pencil drawings. The AISC handbook is used extensively as a reference. One hour lecture, four hours laboratory per week. Prerequisites: Structural Steel Design (CONS 324), Computer Drafting (SOET 116), or permission of instructor.

CONS 368
BUILDING ELECTRICAL AND MECHANICAL SYSTEMS
Offered as needed, 3 credit hours

An introduction to the major components that comprise the electrical and mechanical (HVAC) systems in a commercial building. Students study and interpret construction plans associated with these systems. Water supply, waste, drain and vent calculations are performed. Students are required to perform heat and energy calculations. Issues that impact building environmental health and indoor air quality are presented. Alternative energy approaches to heating, cooling and providing power to buildings are introduced. Three hours lecture per week. Prerequisites: College Algebra (MATH 121) or permission of instructor.

CONS 370
TIMBER DESIGN
Fall, 3 credit hours

The dimensional features, structural properties and behavior under load of wooden structural members are presented. Students learn standard methods for the analysis and design of timber-framed structural elements including beams, joists, rafters, posts (columns), braces, gussets and fasteners. Load and Resistance Factor Design and Allowable Strength Design are employed. Use and selection of engineered lumber products such as glu-lams and laminated veneer lumber is included. Two hours lecture, four hours recitation per week. Prerequisites: Strength of Materials for Technicians (CONS 272), Structural Analysis I (CONS 236), or permission of instructor.

CONS 372
HIGHWAYS AND TRANSPORTATION
Spring, 3 credit hours

This course covers the design of horizontal and vertical highway alignments in accordance with American Association of State Highway and Transportation Officials (AASHTO) requirements from survey data, topographic maps and traffic data. Analysis of alternate plans using benefit cost ratios based on road user costs and first costs are included. Setting of traffic light timing for optimum traffic flow and design of parking is introduced. Three hours lecture per week. Prerequisites: Advanced Surveying (CONS 203), Soil Mechanics (CONS 220).
This course provides students with the knowledge to determine the quality of water and how it is impacted by contaminants. Course content expands upon concepts of basic chemistry to study areas of aqueous chemistry that relate to water quality analysis. Specific topics include the physical, chemical, and biological characteristics of water and the significance and interpretations of water quality properties. The fate of contaminants in natural and engineered environments are studied. Environmental and engineered systems are modeled in order to study contaminant fate and reaction kinetics. Laboratory sessions use standard water quality testing practices that are currently used in industry. Three hours lecture, two hours laboratory per week. Prerequisites: Calculus II (MATH 162), College Chemistry I (CHEM 150), or permission of the instructor.

CONS 387 WATER AND WASTEWATER TREATMENT TECHNOLOGIES

Fall, 3 credit hours

The treatment of water is necessary to achieve the required quality necessary for a desired end-use. End-use may include, but is not limited to, drinking water, medical use, and industrial use. The treatment of wastewater streams is necessary to achieve an effluent stream suitable for disposal or possible additional processing for reuse. This course explores different chemical and physical methods of treatment for water and wastewater streams. Course content expands upon concepts learned in basic chemistry and water quality courses. Specific topics include the physical, chemical, and biological treatment processes of water and wastewater streams. Students learn design concepts for water and wastewater treatment plants. There is also a discussion of water quality standards and regulations. Laboratory sessions demonstrate standard water and wastewater treatment practices that are currently used in industry. Two hours lecture, two hours laboratory per week. Prerequisites: Water Quality (CONS 386) or permission of instructor.

CONS 388 ENVIRONMENTAL LAW

Spring, 2 credit hours

This course introduces students to the many aspects of Environmental Law. Students learn the main structure of the American Legal System: sources of law, classification of law, constitutional principles, and administrative agencies that are involved in environmental issues and concerns. The litigation process for environmental disputes are examined. The evolution of environmental policy is examined and primary national policies are introduced. Environmental laws that relate to air-quality control, water quality control, toxic substance control, waste management and hazardous releases, energy, and natural resources are examined. International environmental laws, particularly those of Canada, are discussed. Two hours of lecture per week.

CONS 390 ADVANCED STRUCTURAL ENGINEERING DESIGN

Fall/Spring, 3 credit hours

This course covers the advanced design of structures for both static and dynamic loading conditions. Students develop the skills necessary for the advanced design of structures. The course covers the design of concrete, steel, and wood structures. Emphasis is placed on the design of structures for earthquake loads. Prerequisites: Advanced Structural Engineering (CONS 451) or permission of instructor.

CONS 400 ADVANCED MATERIALS ENGINEERING

Fall/Spring, 3 credit hours

This course provides an advanced study of the properties and behavior of materials. Topics include the microstructure and properties of metals, polymers, ceramics, and composites. Emphasis is placed on the development of materials for specific applications. Prerequisites: Advanced Materials Science (CONS 310) or permission of instructor.

CONS 410 ADVANCED ENVIRONMENTAL ENGINEERING

Fall/Spring, 3 credit hours

This course provides an advanced study of environmental engineering topics. Topics include water resources management, air pollution control, and solid waste management. Emphasis is placed on the application of environmental engineering principles to real-world problems. Prerequisites: Advanced Environmental Engineering (CONS 300) or permission of instructor.

CONS 420 ADVANCED WATER QUALITY ENGINEERING

Fall/Spring, 3 credit hours

This course provides an advanced study of water quality engineering topics. Topics include water treatment, water distribution, and water reuse. Emphasis is placed on the application of water quality engineering principles to real-world problems. Prerequisites: Advanced Water Quality Engineering (CONS 320) or permission of instructor.

CONS 430 ADVANCED CIVIL ENGINEERING DESIGN

Fall/Spring, 3 credit hours

This course covers the advanced design of civil engineering structures. Students develop the skills necessary for the advanced design of civil structures. The course covers the design of bridges, tunnels, and foundations. Emphasis is placed on the design of structures for earthquake loads. Prerequisites: Advanced Civil Engineering Design (CONS 440) or permission of instructor.

CONS 440 ADVANCED MATERIALS SCIENCE

Fall/Spring, 3 credit hours

This course provides an advanced study of materials science topics. Topics include the microstructure and properties of materials, phase transformations, and materials processing. Emphasis is placed on the development of materials for specific applications. Prerequisites: Advanced Materials Science (CONS 300) or permission of instructor.

CONS 450 ADVANCED EXPLORATORY DESIGN

Fall/Spring, 3 credit hours

This course provides an advanced study of exploratory design topics. Topics include design for innovation, design for sustainability, and design for social impact. Emphasis is placed on the development of innovative design solutions. Prerequisites: Advanced Design (CONS 310) or permission of instructor.
 Course Descriptions: civil/construction, dental hygiene

(CONS 385), Soil Mechanics (CONS 314), Water and Wastewater Treatment (CONS 387), or permission of instructor.

CONS 486
SOIL AND GROUNDWATER REMEDIATION
Spring, 3 credit hours
Students learn about the different types and characteristics of soil and groundwater contaminants. Remedial methods and technologies for soil and groundwater contamination are examined. There is review and discussion of federal and state guidance, regulations, and other pertinent legislation. Three hours of lecture per week. Prerequisites: Advanced Surveying (CONS 203) or Introduction to Geographic Information Systems (CONS 350), Hydrology and Hydrogeology (CONS 385), Soil Mechanics (CONS 314), Water and Wastewater Treatment (CONS 387), or permission of instructor.

CONS 487
WATER RESOURCES ANALYSIS, MANAGEMENT, AND DESIGN
Spring, 3 credit hours
This course includes advanced open channel hydraulics, advanced surface water hydrology and groundwater, and well hydraulics. Management of water resources including reuse and alternative supplies is discussed. Conveyance and distribution water, as well as wastewater and stormwater collection and engineering are discussed. Students perform calculations by hand or with spreadsheets and are introduced to public domain water resources software and the Arc-Hydro data model for Geographic Information Systems. Three hours lecture per week. Prerequisites: Hydraulics (CONS 122), Hydrology and Hydrogeology (CONS 385), Introduction to Geographic Information Systems (CONS 350), or permission of instructor.

CONS 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN CIVIL/CONSTRUCTION ENGINEERING TECHNOLOGY
Fall/Spring, 1-4 credit hours
Special Topics in Civil/Construction Engineering Technology will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available. Prerequisite: permission of the instructor.

DHYG 140
PRE-CLINICAL DENTAL HYGIENE THEORY
Fall, 2 credit hours
This course is an introduction to dental hygiene theory including the dental hygiene process of care with emphasis on professionalism, basic instrumentation skills and patient assessment processes. Students enrolled in this course must also register for DHYG 141. A minimum grade of “C” is required. Department policy requires the student to achieve 75% proficiency in all dental hygiene courses to proceed to the next level of study. Students must be matriculated in the Dental Hygiene Program. Two hours of lecture per week. Corequisites: Pre-Clinical Dental Hygiene (DHYG 141), Oral Anatomy (DHYG 156) or permission of instructor.

DHYG 141
PRE-CLINICAL DENTAL HYGIENE
Fall, 2 credit hours
This course prepares students to perform the specific skills outlined in the Dental Hygiene Process of Care. Emphasis is placed on professionalism, infection control, basic instrumentation skills and patient assessment processes. Patient assessment processes include conducting a medical history interview, documentation of vital signs, head and neck cancer screening exams, caries detection, assessment of deposits and an evaluation of the periodontium. This will be accomplished through lab demonstrations and clinical practice on manikin and/or lab partners, culminating with an initial two appointment clinic patient experience. All students must submit a comprehensive health history to the clinic coordinator prior to sitting as a practice patient in the clinic. A minimum grade of “C” is required. Department policy requires the student to achieve 75% proficiency in all dental hygiene courses to proceed to the next level of study. Students must be matriculated into the Dental Hygiene program, have CPR/AED and First Aid certification, and have proof of current malpractice insurance. Eight hours clinical per week. Corequisites: Pre-Clinical Dental Hygiene Theory (DHYG 140), Infection Control (DHYG 155), and Oral Anatomy (DHYG 156) or permission of instructor.

DHYG 145
DENTAL RADIOLOGY
Fall, 3 credit hours
Students will study the production, characteristics, and legal significance of x-rays and their use in the dental and dental hygiene setting, the safety measures necessary for the protection of the operator and the patient, the exposure, processing, mounting, storage of films, errors in technique and their methods of corrections. A minimum grade of “C” is required. Students must be matriculated into the Dental Hygiene program. Two hours lecture, two hours laboratory per week. Corequisites: Pre-Clinical Dental Hygiene Theory (DHYG 140), Pre-Clinical Dental Hygiene (DHYG 141), Infection Control (DHYG 155), Oral Anatomy (DHYG 156), or permission of instructor.

DHYG 147
HEAD & NECK ANATOMY
Spring, 2 credit hours
Students study the structure and anatomical systems of the head and neck and are exposed to selected body systems. Emphasis will be placed upon aspects of those systems and structures that have dental significance. This course provides the foundation for conducting a cancer screening exam in the clinical setting and the administration of local anesthesia as part of dental hygiene care. A minimum grade of “C” is required. Two hours of lecture per week. Corequisite: Clinical Dental Hygiene I (DHYG 151) or permission of instructor.

DHYG 150
DENTAL HYGIENE THEORY I
Spring, 2 credit hours
This course elaborates and expands upon the theories presented in Pre-Clinical Dental Hygiene Theory (DHYG 140); and introduces additional information required when rendering individualized patient care. Specific topics will include dental considerations for patients with chronic diseases taking medications that may impact one's dental health, recording and reading dental charting, recognizing varying levels of dental disease and determining appropriate interventions. Students must also register for DHYG 151. A minimum grade of “C” is required to proceed to the next level of study. Two hours of lecture each week. Prerequisites: Pre-Clinical Dental Hygiene Theory (DHYG 140), Pre-Clinical Dental Hygiene (DHYG 141), Dental Radiology (DHYG 145), Infection Control (DHYG 155), Oral Anatomy (DHYG 156) and Histology & Embryology (DHYG 161) or permission of instructor. Corequisites: Head & Neck Anatomy (DHYG 147), Clinical Dental Hygiene I (DHYG 151), Dental Health Education (DHYG 159), Pathology (DHYG 160) and Radiographic Interpretation (DHYG 190) or permission of instructor.

DHYG 151
CLINICAL DENTAL HYGIENE I
Spring, 2 credit hours
This course is a continuation of Pre-Clinical Dental Hygiene (DHYG 141). Students will practice and develop their skills when assessing, planning and implementing care for the child, teen, adult and geriatric patient. Students will also learn how to properly sharpen their instruments and will role play various emergency situations that can occur in the dental office. Emphasis is placed on the healthy patient as well as patients with gingivitis or slight periodontitis. Although the department has a database of patients to work from, the student is responsible for recruiting new patients. A minimum grade of “C” is required to proceed to the next level of study. Students must have CPR/AED and First Aid certification, and have proof of current malpractice insurance. Eight hours of clinic per week. Prerequisites: Pre-Clinical Dental Hygiene Theory (DHYG 140), Pre-Clinical Dental Hygiene (DHYG 141), Dental Radiology (DHYG 145), Infection Control (DHYG 155), Oral Anatomy (DHYG 156), Histology & Embryology (DHYG 161) or permission of instructor. Corequisites: Head & Neck Anatomy (DHYG 147), Clinical Dental Hygiene Theory I (DHYG 150), Dental Health Education (DHYG 159), Pathology (DHYG 160), Radiographic Interpretation (DHYG 190), or permission of instructor.

DHYG 155
INFECTION CONTROL
Fall, 1 credit hour
This course provides an introduction to the
Course Descriptions: DENTAL HYGIENE

microbial world. Students will receive an overview of the infectious diseases the dental team is potentially exposed to while providing treatment in the dental office, with a strong emphasis on hepatitis, tuberculosis, HIV, and the herpes viruses. Students will be presented with the rationale for practicing infection control procedures; including the use of appropriate PPE, proper equipment asepsis, and instrument processing. Students will also gain experience developing an office safety program and quality assurance logs. OSHA regulations and CDC guidelines provide the foundation for course content. A minimum grade of “C” is required. One hour of lecture per week. Prerequisite: Dental Hygiene matriculation or permission of instructor.

DHYG 156
ORAL ANATOMY
Fall, 2 credit hours
This course examines the structure and function of teeth and associated oral tissues and structures. Laboratory exercises focus on detailed drawings and identification of anatomical landmarks. Students will learn the characteristics of health gingiva, will practice assessing occlusion and will explain how an individual's occlusion can impact various aspects of dental health. A minimum grade of "C" is required. Students must be matriculated in the Dental Hygiene program. One hour lecture, two hours laboratory per week. Corequisite: Pre-Clinical Dental Hygiene Theory (DHYG 140), Per-Clinical Dental Hygiene (DHYG 41) or permission of instructor.

DHYG 159
DENTAL HEALTH EDUCATION
Spring, 2 credit hours
This course provides the necessary background for developing communication skills during individualized instruction in the clinic and group presentations within the community. Students will learn to assess the needs of a diverse population of patients; and will utilize that assessment information to critically develop a dental hygiene diagnosis and appropriate preventive treatment plan for a variety of patients. Throughout this course, students will be exposed to various preventive strategies that can be used to promote and maintain oral health. The student is expected to assess his/her oral communication skills and to develop either a patient education brochure that can be used chairside or design a bulletin board for the clinical area that portrays a preventive message to the observer. Minimum grade of “C” is required. Two hours lecture per week. Corequisite: Clinical Dental Hygiene I (DHYG 151) or permission of instructor.

DHYG 160
DENTAL PATHOLOGY
Spring, 2 credit hours
This course begins with an introduction to the principles of inflammation and repair. The remainder of the course will be devoted to identifying variations of normal and abnormal tissue lesions found on the oral mucosa and surrounding dental tissues, as well as lesions that might be found on the head and neck. Students will be capable of describing the clinical features of each lesion and will identify the lesions on a slide. This course provides the background for identifying and documenting pathology when providing dental hygiene care to patients in the clinical setting. Minimum grade of “C” is required. Two hours lecture per week. Prerequisite: Oral Anatomy (DHYG 156), Embryology & Histology (DHYG 161), or permission of instructor. Corequisite: Clinical Dental Hygiene I (DHYG 151), or permission of instructor.

DHYG 161
HISTOLOGY & EMBRYOLOGY
Fall, 1 credit hour
This course deals with the microscopic aspects of hard and soft oral tissues as well as the embryology of the face, neck and teeth. During the course the students will be exposed to various pathologic variations of oral and facial tissues. A minimum “C” grade is required. One hour of lecture per week. Prerequisite: matriculation in the Dental Hygiene program or permission of instructor.

DHYG 190
RADIOGRAPHIC INTERPRETATION
Spring, 1 credit hour
This course is a continuation of Dental Radiology (DHYG 145). Students will learn to identify and interpret landmarks and pathologies seen radiographically on periapical, bitewing and panoramic radiographs; and will recognize areas of decay, the severity of periodontal disease, common dental materials and abnormalities of bone and tooth structure. A minimum “C” grade is required. One hour of lecture per week. Prerequisites: Pre-Clinical Dental Hygiene Theory (DHYG 140), Pre-Clinical Dental Hygiene (DHYG 141), Dental Radiology (DHYG 145), Oral Anatomy (DHYG 156) or permission of instructor. Corequisites: Clinical Dental Hygiene I (DHYG 151), Head & Neck Anatomy (DHYG 147) or permission of instructor.

DHYG 215
PAIN MANAGEMENT
Fall, 1 credit hour
This course is designed to prepare the dental hygiene student with the necessary theory to appropriately carry out treatment plans and successfully administer topical anesthesia, local infiltration anesthesia and/or nitrous oxide analgesia to increase patient comfort and control pain when providing dental hygiene services. One hour lecture per week. Prerequisite: matriculation in the Dental Hygiene program, Oral Anatomy (DHYG 156), Head & Neck Anatomy (DHYG 147), and Infection Control (DHYG 155) with a minimum grade of “C”. Corequisites: Dental Hygiene II Lecture/Lab (DHYG 221), Dental Hygiene II Lecture/Lab (DHYG 250), and Clinical Dental Hygiene II (DHYG 251), or permission of instructor.

DHYG 220
PERIODONTOLOGY
Fall, 2 credit hours
Emphasis is placed on the structural anatomy of the periodontium, microbiology of plaque biofilm, and the pathology of periodontal disease. The student will learn to identify risk factors for periodontal disease, the various components of a comprehensive periodontal chart, treatment modalities utilized in the management of periodontally involved patients, appropriate maintenance intervals, as well as the criteria for determining appropriate referral to a periodontal specialist. A minimum “C” grade is required. Two hours lecture per week. Prerequisite: matriculation in the Dental Hygiene program, Dental Health Education (DHYG 159), or permission of instructor. Corequisite: Dental Hygiene II Lecture/Lab (DHYG 250), Clinical Dental Hygiene II (DHYG 251), or permission of instructor.

DHYG 221
DENTAL PHARMACOLOGY
Fall, 2 credit hours
This course covers general concepts of drug therapy, drugs used in dentistry, and drugs that may alter dental treatment. The course also covers specific mechanisms of action and clinical applications of therapeutic agents which affect the central and peripheral nervous systems, the heart, the vascular and renal systems, the respiratory and GI systems and the endocrine system. Chemotherapeutic agents, anti-infective agents and anti-neoplastic agents are also discussed. Drugs used in emergencies in the office and special considerations such as drug interactions, pregnant patients and drug abuse are also covered in this course. Two hours lecture per week. Prerequisites: matriculation in the Dental Hygiene program, Anatomy and Physiology I & II (BIOL 217 & 218) with a minimum grade of “C+”, or permission of instructor. Corequisite: Clinical Dental Hygiene II (DHYG 251) or permission of the instructor.

DHYG 240
DENTAL MATERIALS
Fall, 2 credit hours
This course provides a general overview of the chemical and physical properties and structure of materials in dentistry. A combination of lectures, powerpoints and web assigned activities will prepare the dental hygiene student to develop the skills outlined in the NYS Dental Hygiene Practice Act. A minimum grade of “C” is required to proceed to the next level of study. Two hours lecture per week. Corequisite: Dental Materials Lab (DHYG 241) or permission of instructor.

DHYG 241
DENTAL MATERIALS LAB
Fall, 1 credit hour
This course enables the dental hygiene student to develop the skills outlined in the NYS Dental Assisting and Dental Hygiene Practice Acts. Skills are learned on a typodont in the lab prior to patient and/or patient practice in the clinical setting. Students will learn the foundation for these skills in Dental Materials Lecture (DHYG 240). A minimum grade of “C” is required to proceed to the next level of study. Three hours laboratory per week. Corequisite: Dental Materials Theory (DHYG
DHYG 250
DENTAL HYGIENE II LECTURE/LAB
Fall, 2 credit hours
This course provides an opportunity for the dental hygiene student to practice and master proper technique when managing pain during a dental hygiene appointment. Successful completion of this course will enable the student to qualify for NYS certification in local anesthesia. Emphasis will also be placed on the following dental hygiene skills: extrinsic stain removal, utilization of the intraoral camera, digital radiography, utilization of desensitizing agents, and management of the geriatric patient, advanced instrumentation techniques utilized when providing hygiene services for periodontally involved patients. One hour lecture, three hours of laboratory per week. Corequisites: Pain Management (DHYG 215), Periodontology (DHYG 220), Clinical Dental Hygiene II (DHYG 251), or permission of instructor. A minimum grade of “C” is required to proceed to the next level of study.

DHYG 251
CLINICAL DENTAL HYGIENE II
Fall, 3 credit hours
This course is a continuation of Clinical Dental Hygiene I (DHYG 151) with continued emphasis on the dental hygiene process of care. Students will not only provide continued care for patients treated in the second semester but will also assess, plan and implement care for patients with advanced periodontal disease. Students are also expected to demonstrate more efficient time management skills so they are prepared to enter the workforce. A minimum grade of “C” is required to proceed to the next level of study. On the last day of each semester, students will participate in a state board review for the NSU/NYS board. Prerequisites: Head & Neck Anatomy (DHYG 147), Dental Hygiene Theory I (DHYG 150), Clinical Dental Hygiene I (DHYG 151), and Dental Pathology (DHYG 160), or permission of instructor. Corequisites: Pain Management (DHYG 215), Periodontology (DHYG 220), Dental Pharmacology (DHYG 221), Dental Materials (DHYG 240), Dental Materials Lab (DHYG 241), Dental Hygiene II Lecture/Lab (DHYG 250), or permission of instructor.

DHYG 256
MEDICAL EMERGENCIES IN THE DENTAL OFFICE
Fall, 1 credit hour
This course discusses the steps taken to reduce the risk of medical emergencies in the dental office; prepares the student to identify the early signs of various medical emergencies, and summarizes the steps taken to properly manage emergency situations while waiting for a paramedic to arrive on the scene. A minimum grade of “C” is required to proceed to the next level of study. One hour lecture per week.

DHYG 260
COMMUNITY DENTAL HEALTH
Spring, 2 credit hours
This writing intensive course is an introduction to the philosophy of community dental health and explores principles of community based oral health program assessment, planning, implementation, and evaluation. In addition, fluoridation, dental health education, epidemiology of dental diseases, and the use of biostatistical methods and materials for research are discussed. A minimum “C” grade is required to graduate. Prerequisite: matriculation in the Dental Hygiene program, or permission of the instructor. Corequisite: Clinical Dental Hygiene III (DHYG 270) or permission of the instructor.

DHYG 263
DENTAL NUTRITION
Spring, 2 credit hours
Study of current topics in nutrition along with basic principles of nutrition. Dietary counseling in relationship to dental health and incorporation of nutrition education in a dental office practice. Diet modifications for clients (patients) with special needs will also be reviewed. Two hours lecture per week. Prerequisite: matriculation in the Dental Hygiene program. Co-requisite: Clinical Dental Hygiene III (DHYG 270) or permission of the instructor.

DHYG 270
CLINICAL DENTAL HYGIENE III
Spring, 4 credit hours
This course is a continuation of DHYG 251 Clinical Dental Hygiene II with emphasis on individualized comprehensive dental hygiene care for the periodontally involved patient. Students will administer topical and local anesthesia to manage patient discomfort during scaling and root planing procedures. Each student will also have an opportunity to administer a locally delivered antimicrobial agent. Instructional labs will be utilized to acquire practice managing patients in specialty practices and alternative practice settings such as nursing homes. Students must have current CPR/AED certification and malpractice insurance. A minimum “C” grade is required to graduate. Three hours teaching laboratory; 12 hours clinical per week. Prerequisites: Pain Management (DHYG 215), Periodontology (DHYG 220), Pharmacology (DHYG 221), Dental Materials (DHYG 240), Dental Materials Lab (DHYG 241), Dental Hygiene II Lecture/Lab (DHYG 250), or permission of instructor.

DHYG 285
SENIOR SEMINAR
Spring, 1 credit hour
This course emphasizes case based learning, which involves the integration of theory, knowledge, and research and its individualized practical application to patient care. Students will review cases and apply the knowledge accumulated in their two years of dental hygiene studies to plan and manage care for the pediatric, geriatric, adult, periodontal, and the medically compromised patient. The course is designed to prepare students for the dental hygiene licensing exams. All students will participate in a pretest and a mock national examination. This is a five week course with 3.5 hours of lecture per week. Prerequisites: matriculation in the Dental Hygiene program and Clinical Dental Hygiene II Lecture/Lab (DHYG 250), Clinical Dental Hygiene II (DHYG/251) or permission of the instructor.

DHYG 290
SPECIAL NEEDS PATIENTS
Spring, 1 credit hour
This course will heighten the hygiene student’s understanding of the dental needs of patients with varying medical conditions as well as those with physical, sensory and emotional conditions that can impact a patient’s oral health and require modified care during the dental appointment. Understanding the dynamic oral-systemic link will enable the student to develop appropriate treatment plans and provide individualized, patient centered care for all patients. A minimum grade of “C” is required. One hour lecture per week. Prerequisite: matriculation into the Dental Hygiene program or permission of the instructor.

DHYG 310
CONTEMPORARY ISSUES IN DENTAL HYGIENE
Spring, 3 credit hours
This course examines current societal and professional issues and their impact on the dental hygiene practice. The student will discuss the Healthy People 2020, including issues, trends, disparities and opportunities. Students will examine the roles of the dental hygienist and discuss the dental hygienists’ role in increasing access to dental care. Students will research and compare traditional and alternative practice models, and propose changes to improve dental care delivery. This is a writing intensive course in which the student will prepare a manuscript for publication following ADHA author guidelines.
Three hours lecture per week.

**DHYG 340/BSAD 340 MANAGEMENT COMMUNICATIONS**  
**Fall/Spring, 3 credit hours**

This course introduces students to the foundations of effective management communication. It focuses on communicating strategically and persuasively in a professional environment. Skills such as advocacy, framing issues clearly and strategically, preparing a team for communicating in a competitive environment, facilitating meetings, and adapting arguments to audiences' needs will be developed. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) and junior level status or the permission of the instructor.

**DHYG 350 CURRENT ISSUES IN PERIODONTICS**  
**Fall, 3 credit hours**

Students taking this course will research and discuss current studies in periodontology and related disciplines to identify factors which may modify theory or practice. Focus will be placed on the relationship of periodontal health to systemic health, current concepts in etiology, risk factors, assessment, and treatment. Three hours lecture per week.

**DHYG 360 DENTAL HYGIENE TEACHING METHODOLOGY**  
**Fall, 4 credit hours**

This course provides the dental hygienist with the background to become an effective classroom and clinical instructor. Students will discuss the current philosophy of dental hygiene education and the American Dental Associations' accreditation requirements regarding course syllabi, instructional objectives, learning experiences, evaluation procedures and remediation policies. Students will explore the various learning styles and classroom techniques that can be utilized to incorporate all learning styles, motivate the learner and enhance the learning process. Four hours lecture per week.

**DHYG/NURS 370 RESEARCH METHODS IN SOCIAL AND HEALTH SCIENCES**  
**Fall/Spring, 3 credit hours**

This course provides an intense comprehensive study of the scientific research process utilized in the social and health sciences. Students will be trained to be critical consumers of published research and will be expected to complete a research project. Topics that will be covered include the underlying theory of research; and data management and presentation. Three hours lecture per week. Prerequisite: Introduction to Psychology (PSYC 101), or Introduction to Sociology (SOCI 101), or Introduction to Science and Technology of Behavior (SSCI 245), or Principles of Macroeconomics (ECON 103); Statistics (MATH 141) or equivalent course work, and Expository writing (ENGL 101) or Oral and Written Expression (ENGL 102); or permission of the instructor. Additionally, students must have at least junior level status or permission of the instructor.

**DHYG 385 ORIENTATION TO INTERNSHIP**  
**Fall, 1 credit hour**

An internship is required to complete degree requirements for the Bachelor of Technology in Dental Hygiene. This course is a pre-requisite course that will provide students with a clear sense of direction and will enhance success in DHYG 390. The instructor will discuss best practices when searching for internship opportunities as well as the fundamentals for developing an internship contract that meets SUNY Canton guidelines. Students are expected to identify their anticipated goals and will submit timeline for completing the proposed internship. Students will also be provided with some guidance for documenting daily reflections and activities in a journal and tips for building a professional portfolio. One hour lecture per week.

**DHYG 390 DENTAL HYGIENE INTERNSHIP**  
**Spring, 6 credit hours**

This internship course enables students to acquire practical experience in a variety of professional settings that draw on concepts and skills gained from the academic experience. Students will develop new knowledge and skills by taking an active role in the cooperating organization. Students will develop an internship contract based on personal interests and career aspirations. Internship proposals must be presented and approved prior to registration for the course. Students must complete a minimum of 240 hours of internship study. Placement cannot be in their workplace.

**DHYG 291-295, 391-395, or 491-495 SPECIAL TOPICS IN DENTAL HYGIENE**  
**Fall/Spring, 1-4 credit hours**

An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in dental hygiene.

**EADM 201 FUNDAMENTALS OF EMERGENCY MANAGEMENT: HISTORY, PERSPECTIVES, AND THEORIES**  
**Fall, 3 credit hours**

This course presents the theories, principles, and approaches to emergency management. The philosophy of Comprehensive Emergency Management (CEM) will be discussed with the four attendant steps of: mitigation, preparedness, response, and recovery. An analysis of past disasters will be presented along with their impacts on policy formation leading up to the current FEMA all-hazards approach. The role, duties, and importance of the Emergency Manager will be discussed throughout the semester. Finally, a brief review of basic legal issues involving emergency management will be presented. Three hours lecture per week.

**EADM 205 RISK & HAZARD IMPACT STUDIES**  
**Fall, 3 credit hours**

The course focuses on a generalized technical understanding and an awareness of various types of natural hazards. Central to the course is the understanding of technical cooperation regarding hazard and vulnerability assessments, inclusion of hazard mitigation measures in the formulation of investment projects, use of geographic information systems for mapping and analysis, and urban watershed planning for hazard and resource management. The course includes some, but not all, of the disaster mitigation and integrated development planning. Three hours lecture per week. Prerequisites/corequisites: Fundamentals of Emergency Management: History, Perspectives and Theories (EADM 201), GER Math and Introductions to Information Technology (CITA 110) or permission of instructor.

**EADM 220 DISASTER MANAGEMENT & PREPAREDNESS**  
**Spring, 3 credit hours**

The course presents new and innovative methods for preparing communities and organizations to address general and substantial risk of disasters and emergencies in the workplace. It encompasses the tactics used by safety experts and additionally focuses on expanded proactive measures to safeguard lives and assets from natural disasters to acts of terrorism. Focuses of the course include planning, assessing and responding to potential threats, decreasing potential harm and recovery considerations at the community and organizational level. Three hours lecture per week. Prerequisite: Fundamentals of Emergency Management: History, Perspectives, and Theories (EADM 201), Risk & Hazard Impact Studies (EADM 205) or permission of instructor.

**EADM 222 COMMUNITIES: PREPAREDNESS & DEFENSE**  
**Spring, 3 credit hours**

The course presents new and innovative methods for preparing communities and organizations to address general and substantial risk of disasters and emergencies in the workplace. It encompasses the tactics used by safety experts and additionally focuses on expanded proactive measures to safeguard lives and assets from natural disasters to acts of terrorism. Focuses of the course include planning, assessing and responding to potential threats, decreasing potential harm and recovery considerations at the community and organizational level. Three hours lecture per week. Prerequisites: Fundamentals of Emergency Management: History, Perspectives, and Theories (EADM 201) or permission of instructor.

**EADM 307 LEGAL ISSUES IN E&D**  
**Spring, 3 credit hours**

This course provides a general overview of the major legal and liability issues in emergency management. The focus is on the legal environment within which emergency managers operate, including
their roles in rule-making, policy administration, and their potential personal legal liability for discretionary actions. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral & Written Expression (ENGL 102), and Risk and Hazard Impact Studies (EADM 205) or permission of instructor.

EADM 400 INCIDENT COMMAND: SYSTEM COORDINATION & ASSESSMENT Fall, 3 credit hours

The Incident Command System (ICS) is the nationally recognized system for managing emergencies and disasters. Several states and federal agencies have adopted ICS as their standard for emergency management. ICS provides education and training for those who are not first responders (i.e., law enforcement, fire, or emergency medical services personnel) who may be called upon to function in an ICS environment. The course includes a large number of scenarios, examples, and opportunities for students to apply what they have learned. Three hours lecture per week. Prerequisite: Risk & Hazard Impact Studies (EADM 205) or permission of the instructor.

EADM 430 SIMULATED DISASTER TRAINING Fall/Spring, 3 credit hours

This course is designed for students to acquire the knowledge and skills necessary to develop, conduct, and evaluate activities and exercises. Students will assess and evaluate an exercise in actual emergency and/or disaster situations. Three hours lecture per week. Prerequisites/corequisites: Management Communications (BSAD 340) and Incident Command: System Coordination & Assessment (EADM 400) or permission of instructor.

EADM 435 DISASTER SIMULATION Spring, 6 credit hours

The course is a highly structured applied interactive educational and training simulation experience that requires the student to participate in sequential exercises that focus on the application of skills and abilities in emergency and disaster management. Students will create an operational scenario, assess its application, evaluate the evaluation of exercise(ies) participant performance associated with an actual emergency and/or disaster situation. Participants are required to develop, conduct, and evaluate these activities through the use of phased proficiency exercise applications. Six hours lecture per week. Prerequisite: Simulated Disaster Training (EADM 430) or permission of instructor.

EADM 480 INTERNSHIP IN EMERGENCY AND DISASTER MANAGEMENT Fall/Spring, 3, 6 or 9 credit hours

The EADM internship is an academic program integrating classroom work and practical experience with cooperating agencies. The internship allows seniors the opportunity to apply classroom learning in emergency and disaster response associated agencies. It is a structured experience in which an intern acquires and applies knowledge and skills, while working in a responsible role. Working with a supervisor at the placement site, the student will perform prescribed work in an agency engaged in emergency and disaster management. The internship is tailored to the individual student’s career interests and the needs of the supervising organization. Forty hours per work week is required. Prerequisites: Incident Command: System Coordination & Assessment (EADM 400), senior level status in the Emergency Management program, or permission of instructor.

EADM 485 SENIOR PROJECT Fall/Spring, 3, 6, or 9 credit hours

Students will complete a senior research project specifically addressing issues in the emergency and disaster management arena. Under the guidance of a faculty mentor, the student will submit a research proposal, conduct research, prepare a thesis style report, and present a defense to a thesis committee. Prerequisite: Incident Command: System Coordination & Assessment (EADM 400) or permission of instructor.

ECHD 101 INTRODUCTION TO EARLY CHILDHOOD Fall, 3 credit hours

An overview of the history, theories, and philosophies that form the foundation of Early Care and Education. All aspects of development (physical, cognitive, social-emotional, and communication) are presented and studied within an ecological context (family, community, culture, society). Specific emphasis is placed on understanding the various roles/responsibilities primary teachers have in fostering the well-being and development of young children from birth-6 years. Observation of children is an integral part of the learning process in this course. Three hours lecture per week.

ECHD 121 WELLNESS IN YOUNG CHILDREN: PROMOTING HEALTH, SAFETY, NUTRITION, AND DEVELOPMENT Fall, 3 credit hours

A combination of lecture, discussion, and exercises designed to develop the knowledge and skills necessary for working with young children. This course focuses on integrating health, safety, and nutritional activities into early childhood settings. Students will also be required to plan and implement weekly activities for children with disabilities. Three hours lecture per week. Prerequisites: Introduction to Early Childhood (ECHD 101) or permission of instructor. ECHD majors only.

ECHD 123 STUDENT TEACHING ORIENTATION Spring, 1 credit hour

The Student Teaching Orientation will prepare students for their internship experiences in Early Childhood. Students will become familiar with field work requirements, policies and procedures, professionalism, ECE programs, the role of the college supervisor and site mentor, and the responsibilities and expectations of the student teaching experience. One hour lecture per week. Prerequisite: Introduction to Early Childhood (ECHD 101). Corequisite: Curriculum Development (ECHD 125) or permission of instructor. ECHD majors only.

ECHD 131 INFANTS AND TODDLERS Spring, 3 credit hours

Supporting the social, cognitive, emotional, and physical development of children under the age of 3 years requires that their caregivers have a solid understanding of child development, developmentally appropriate practice, and child guidance for young children. This course will explore these content areas fully and challenge students to integrate their knowledge into a framework for guiding responsible decision-making in providing optimal high quality care for infants and toddlers. Sensitivity to diverse family and cultural perspectives and the needs of children with disabilities is imbedded throughout the course. Three hours lecture per week. Prerequisite: Introduction to Early Childhood (ECHD 101). Corequisite: Student Teaching Orientation (ECHD 123) or permission of instructor. ECHD majors only.

ECHD 200 PLANNING PROGRAMS FOR YOUNG CHILDREN Spring, 3 credit hours

Students apply concepts of developmentally appropriate practice as they relate to the design of programs for young children. The curriculum will be viewed from the perspective of program philosophy, physical environment, materials selection/arrangement, learning centers and scheduling, Principles of program planning related to high quality early care and education, administration and leadership will be applied. Three hours lecture per week. Prerequisite: Introduction to Early Childhood (ECHD 101) or permission of instructor. ECHD majors only.

ECHD 201 STUDENT TEACHING EXPERIENCE I W/ SEMINAR Fall, 4 credit hours

This course is an off-campus practicum in early childhood. Students are assigned to a child care,
Course Descriptions: EARLY CHILDHOOD, ECONOMICS

Head Start, pre-k or kindergarten setting and work under the direct supervision of a classroom teacher. Students are required to complete an 80-hour student teaching experience applying the knowledge and skills acquired through coursework. Students will observe, participate, plan, and implement lessons and activities throughout their experience. Students are required to attend one-hour weekly seminars to reflect on their development and field experiences, lead by the college supervisor. Prerequisites: minimum 2.0 GPA in Introduction to Early Childhood (ECHD 101), Student Teaching Orientation (ECHD 123), and Curriculum Development (ECHD 125), or permission of instructor. ECHD majors only.

ECHD 202
STUDENT TEACHING EXPERIENCE II W/SeminAr
Spring, 6 credit hours
This course is an off-campus practicum in early childhood. Students will further develop and apply their knowledge and skills in an early childhood classroom. Students are responsible for planning and implementing weekly child-centered curriculum. Training and supervision are provided by an on-site mentor and the college supervisor. One hundred twenty clock hours of supervised fieldwork at an assigned early childhood program. Students are required to attend one-hour weekly seminars to reflect on their development and field experiences, lead by the college supervisor. Prerequisite: Student Teaching Experience I w/Seminar (ECHD 201) with a minimum grade of C+ or permission of instructor. ECHD majors only.

ECHD 250
CHILDREN WITH SPECIAL NEEDS
Fall, 3 credit hours
This course will explore various special needs of young children. Students will gain knowledge of inclusive practices, teaching modifications, prevention and intervention strategies and support services for children, families and the community. Assessment, identification and general knowledge of the special needs of all children will be examined as well as social policies and initiatives to support teachers and children. Three hours lecture per week. Prerequisite: Introduction to Early Childhood (ECHD 101) and Child Development (PSYC 220) or permission of the instructor.

ECHD 285
ISSUES & POLICIES IN EARLY CARE & EDUCATION
Spring, 3 credit hours
Students will draw from academic, life and student teaching experiences to explore current issues and policies in the field of early education and care. Social issues impacting the well-being of children, families and the community will be explored. Students will research issues and investigate approaches to resolving some of these challenges. Three hours lecture per week. Prerequisite: Introduction to Early Childhood (ECHD 101) or Introduction to Sociology (SOCI 101) or Introduction to Psychology (PSYC 101) and have earned more than 30 credit hours or permission of instructor. Writing intensive course.

ECHD 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN EARLY CHILDHOOD
Fall/Spring, 1-4 credit hours
Individual courses of instruction of variable credit (1–4 credits) may be offered each semester. These courses are designed to expand on topics in specific areas of early childhood. Prerequisite: depends on the nature of each course.

ECHD 291
PRINCIPLES OF MACROECONOMICS
Fall/Spring, 3 credit hours
A study of the market economy, the role of government, income determination, the business cycle, inflation, unemployment, the banking system, monetary and fiscal policy, population, economic growth, and international trade. Three hours lecture per week.

ECHD 293
PRINCIPLES OF MICROECONOMICS
Fall/Spring, 3 credit hours
A study of supply, demand, elasticity, theory of the firm, market structures, government regulation, marginal productivity theory, and selected contemporary economic issues. Three hours lecture per week. Prerequisite: Macroeconomics (ECHD 101) or GER Math or permission of instructor.

ECHD 295
SURVEY OF AMERICAN ECONOMIC HISTORY
Spring, 3 credit hours
Fundamental tools of economics will be used to explain important events and issues in the history of the United States. Topics to be surveyed include the United States’ growth and transformation into an industrialized nation, development and transitions in American labor, consumers and culture, the rise of corporate America, changes in the role of government, economic regulations, monetary and fiscal policy, the origins of major institutions and their economic impact, and increased global awareness. Three hours lecture per week.

ECHD 301
INTRODUCTION TO LABOR STUDIES
Fall/Spring, 3 credit hours
Within an historical context, this course examines the economic, social and technical forces that shape labor conditions in the USA. Among the topics covered are: the changing nature of work under capitalism, collective bargaining, theory and value of workplace skills, and the impact of economic globalization on labor. Three hours lecture per week.

ECHD 303
ECONOMICS OF HEALTH CARE
Fall/Spring, 3 credit hours
This course introduces students to the discipline of health economics and applies economic concepts to the health care sector. Topics to be covered include the demand for health care, health production and costs, health care models, health insurance markets, managed care, structure, conduct and performance of pharmaceutical, physician, and hospital services industries. In addition, the role of government in health care markets and various healthcare reforms proposed in the U.S. and overseas will be discussed. Three hours lecture per week. Prerequisites: Principles of Macroeconomics (ECHD 101) or Principles of Microeconomics (ECHD 103), and a minimum 45 credit hours, or permission of instructor.

ECHD 305
REGIONAL ECONOMIC DEVELOPMENT IN AFRICA
Fall/Spring, 3 credit hours
This course provides an analytical study of economic development of one specific African region. Topics to be covered include inequality, poverty, economic growth, demography, fertility, mortality, migration, employment, education, health, trade, globalization, food production, nutrition, environment, and sustainable development. Different African regions (Central Africa, East Africa, North Africa, Southern Africa, and West Africa) will be studied on a cycle. Students may take one “Regional Economic Development In Africa” for Gen Ed. 6 credit. Students may take two “Regional Economic Development In Africa” for elective credits if different regions. Three hours lecture per week. Prerequisites: Macroeconomics (ECHD 101), or Microeconomics (ECHD 103), or Introduction to Sociology (SOCI 101), or Statistics (MATH 141) or permission of the instructor.

ECHD 310
ECONOMICS OF CRIME
Fall/Spring, 3 credit hours
This course examines the behavior of criminals and uses economic concepts to analyze crimes of violence, crimes against property, and the markets for illegal goods and services. Topics covered include costs of crime to society and its various stakeholders, prostitution and drug crimes, issue of decriminalization and legalization, allocation of resources to and within the criminal justice system, crime prevention strategies, and efficiency and effectiveness of the use of punishment as a form of crime deterrence. In addition, it uses an economic understanding of crime and crime behavior to develop public policy options. Three lecture hours per week. Prerequisites: Principles of Macroeconomics (ECHD 101), or Principles of Microeconomics (ECHD 103), and a minimum 45 credit hours, or permission of instructor.

ECHD 393
SURVEY OF AMERICAN ECONOMIC HISTORY
Spring, 3 credit hours
Fundamental tools of economics will be used to explain important events and issues in the history of the United States. Topics to be surveyed include the United States’ growth and transformation into an industrialized nation, development and transitions in American labor, consumers and culture, the rise of corporate America, changes in the role of government, economic regulations, monetary and fiscal policy, the origins of major institutions and their economic impact, and increased global awareness. Three hours lecture per week.

ECHD 395
SURVEY OF AMERICAN ECONOMIC HISTORY
Spring, 3 credit hours
Fundamental tools of economics will be used to explain important events and issues in the history of the United States. Topics to be surveyed include the United States’ growth and transformation into an industrialized nation, development and transitions in American labor, consumers and culture, the rise of corporate America, changes in the role of government, economic regulations, monetary and fiscal policy, the origins of major institutions and their economic impact, and increased global awareness. Three hours lecture per week.

ECHD 401
ECONOMICS OF CRIME
Fall/Spring, 3 credit hours
This course examines the behavior of criminals and uses economic concepts to analyze crimes of violence, crimes against property, and the markets for illegal goods and services. Topics covered include costs of crime to society and its various stakeholders, prostitution and drug crimes, issue of decriminalization and legalization, allocation of resources to and within the criminal justice system, crime prevention strategies, and efficiency and effectiveness of the use of punishment as a form of crime deterrence. In addition, it uses an economic understanding of crime and crime behavior to develop public policy options. Three lecture hours per week. Prerequisites: Principles of Macroeconomics (ECHD 101), or Principles of Microeconomics (ECHD 103), and a minimum 45 credit hours, or permission of instructor.
**ECON 330/FSMA 330**
**FINANCIAL MARKETS AND INSTITUTIONS**
*Fall/Spring, 3 credits*
This course provides an understanding of financial markets and financial institutions that operate within the financial markets. It introduces the financial markets where flow of funds occur through financial markets instruments, such as bonds, money markets, mortgage markets, foreign exchanges, stocks and derivatives (futures, forward, options, and swaps). It focuses on financial institutions, such as the Federal Reserve, commercial banks, thrifts, insurance companies, investment banks, finance companies, mutual funds, and pension funds. In addition, it provides a comprehensive introduction to risk management within the framework of financial services industry. Three hours lecture per week. Prerequisites: Principles of Macroeconomics (ECON 101) or Principles of Microeconomics (ECON 103), and a minimum 45 credit hours, or permission of instructor.

**ECON 314**
**MANAGERIAL ECONOMICS**
*Spring, 3 credit hours GER 3*
Global case studies from the private, public and nonprofit sectors will be utilized to illustrate the application of economic theory and quantitative methods to managerial decision making. Students will engage in problem solving exercises that will integrate various principles of business, statistics and economics to determine market forecast, pricing strategy, resource usage, and production level. Three hours lecture per week. Prerequisites: Principles of Macroeconomics (ECON 101) or Principles of Microeconomics (ECON 103), and a minimum 45 credit hours, or permission of instructor.

**ECON 315**
**GLOBAL ECONOMY**
*Fall, 3 credit hours GER 6*
Students will examine the historical development of the global economy and the increase interdependence of economies, governments, and public policy. Economic theories in international trade, finance and monetary policy will be explored within the context of globalization. Contemporary global economic issues such as the environment, income distribution, and development will be analyzed using case studies from various nations. Three hours lecture per week. Prerequisites: Principles of Microeconomics (ECON 103) or permission of instructor.

**ECON 320**
**ENVIRONMENTAL ECONOMICS**
*Fall, 3 credit hours*
Issues and policies involving renewable and nonrenewable energy, natural resource management, pollution control, global climate change, and sustainable development will be explored through traditional neoclassical economics as well as through the contemporary approach of ecological economics. Three hours lecture per week. Prerequisites/corequisites: Principles of Macroeconomics (ECON 101) or Principles Microeconomics (ECON 103), GER Math and a minimum of 45 college credits with a GPA of 2.0 or better, or permission of the instructor.

**ECON 291-295, 391-395, or 491-495**
**SPECIAL TOPICS IN ECONOMICS**
*Fall/Spring, 1-4 credit hours*
An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in economics.

**EDUC 207**
**LITERACY I**
*Fall/Spring, 3 credit hours*
Designed for preservice teachers responsible for teaching literacy skills to children in Grades 1-6. This is a beginning literacy methods course that teaches the "whys" and "hows" of developmental literacy.

**EDUC 210**
**PRINCIPLES OF EDUCATION**
*Fall/Spring, 3 credit hours*
A general introduction to education in North America. Topics include: characteristics and needs of learner; goals and objectives of elementary education; nature of knowledge and learning; teaching strategies, based on accepted learning models; educational role of the teacher; attitude and value teaching; nature of evaluation; and nature of curriculum. Includes field work per week. Prerequisites: 30 college credits with a 2.0 GPA.

**EDUC 300**
**THE PEDAGOGY & TECHNOLOGY OF ON-LINE LEARNING**
*Fall/Spring, 3 credit hours*
This course will provide the student with fundamental information with which to design and deliver an effective On-line Distance Learning course. In doing so, aspects of pedagogy, methodology, and technique will be integrated with elements of course design and structure. Three hours lecture per week. Prerequisites: Junior level status and 2.5 GPA with prior education courses or teaching experience, or permission of instructor.

**EDUC 215**
**DIGITAL SYSTEMS FOR TELECOMMUNICATIONS I (VERIZON PROGRAM)**
*Spring, 4 credit hours*
This course presents topics in hardware and systems as used in the telecommunications industry. Electrical and digital circuits are explored. Binary numbers systems are discussed as applied to telecommunications equipment. Students will explore hardware to the modular level. Student will demonstrate use of and simulate digital circuits. Three hours lecture, two hours laboratory per week. Prerequisites: Technical Math 1 (MATH 135) and Computer Applications for Telecommunications (CITA 116) or permission of instructor.

**EDUC 125**
**DIGITAL SYSTEMS FOR TELECOMMUNICATIONS II (VERIZON PROGRAM)**
*Fall, 4 credit hours*
In this course students will be working with
Course Descriptions: ELECTRICAL

ELEC 129
ELECTRIC CIRCUITS 2 LABORATORY
Spring, 1 credit hour

A continuation of Electric Circuits 1 Laboratory, stressing the understanding of AC analysis that involves resistive, capacitive, and inductive circuits. Also, impedance, resonance, filters and transformers are covered. Students will study circuits of various configurations using practical laboratory application/equipment. Two hours laboratory per week. Prerequisite: Electric Circuits 1 Laboratory (ELEC 109) and Pre-Calculus (MATH123) or permission of instructor.

ELEC 141
INDUSTRIAL CONTROLS
Spring, 2 credit hours

A hands-on study of devices and systems used in the control of industrial machinery. The student is introduced to the theory and use of electromechanical control circuits by use of traditional “hardwire” circuits. The programming of the Allen-Bradley Micro Logix 1000 type of programmable logic controller (PLC) is practiced. An introduction to sequencer systems that enable complex control and monitoring of machines is given. Emphasis is on learning the ability to program the equipment for effective control. Four hours laboratory per week. Prerequisite: Electric Circuits 1 and Laboratory (ELEC 101/109). Digital Fundamentals (ELEC 165) or a basic electricity course (i.e. ELEC 261) with an introduction to three phase systems, basic logic gates, binary and hexadecimal number systems, or permission of instructor.

ELEC 145
TELECOMMUNICATIONS ELECTRICAL CIRCUITS (VERIZON PROGRAM)
Spring, 4 credit hours

In this course students learn to analyze DC and AC passive circuits using Ohm’s Law, Kirchoff’s laws, and Superposition Theory. RC and RL circuits are analyzed for impedance and phase angles; troubleshooting, analysis by computer simulation using simulation software, and telecommunications applications are stressed throughout. Four hours lecture per week. Prerequisites: Technical Math II (MATH 136) and Verizon Computer Applications (CITA 116) or permission of instructor.

ELEC 146
ELECTRONIC SYSTEMS FOR TELECOMMUNICATIONS (VERIZON PROGRAM)
Fall, 4 credit hours

This course covers the analysis and application of advanced electronic circuits as applied to the telecommunications industry. Topics include frequency response of filters, op-amps, oscillators, amplitude modulation, noise and LC circuits. Four hours lecture per week. Prerequisites/corequisites: Telecommunications Electrical Circuits (ELEC 145), Technical Physics (PHYS 108) or permission of instructor.

ELEC 161
ELECTRONIC FABRICATION
Fall, 2 credit hours

Stresses practical fabrication techniques used in electronic and communication industries. Focuses on aspects of designing, installing, testing and troubleshooting fabrication methods used in assembly and repair of electronic equipment. One hour lecture, two hours laboratory per week.

ELEC 165
DIGITAL FUNDAMENTALS & SYSTEMS
Fall/Spring, 3 credit hours

This course covers topics include: number systems, operations and codes, logic gates, Boolean algebra and logic simplification, combinational logic analysis, functions of combinational logic, latches, flip-flops, timers, and counters. Three hours of lecture per week. Prerequisite: Electric Circuits 1 and Laboratory (ELEC 101/109), or permission of instructor.

ELEC 166
DIGITAL FUNDAMENTALS & SYSTEMS LABORATORY
Fall/Spring, 1 credit hour

This is a digital laboratory course with emphasis on topics include: Logic Gate Systems, Arithmetic Systems, Code Converters, Multiplexer and De-multiplexer, JK Flip-Flop Circuits, Counters, Shift Registers, Timers, Matrix Keypad Encoder, Serial and Parallel Data Transfer, Digital Circuit Troubleshooting. Two hours of laboratory per week. Prerequisites: Electric Circuits I/ Lab (ELEC 101/109), corequisite: Digital Systems (ELEC 165), or permission of instructor.

ELEC 171
ELECTRICAL CONSTRUCTION AND MAINTENANCE I (Certificate Program)
Fall, 7 credit hours

Instruction includes fundamentals of AC and DC circuits, magnetism, DC motors and generators, use of electrical test instruments and the National Electric Code. Laboratory projects include cable, conduit and surface raceway wiring installations plus projects related to the theoretical concepts listed above. CERTIFICATE/A.A.S. ELECTIVE CREDIT ONLY. Three hours lecture, eight hours laboratory per week.

ELEC 172
ELECTRICAL CONSTRUCTION AND MAINTENANCE II (Certificate Program)
Spring, 7 credit hours

Continuation of Electrical Construction and Maintenance I. Includes additional instruction in basic AC system theory, three phase circuits, motors and motor control, transformer theory and connections. Laboratory projects include diagnosis and repair of electrical equipment including major appliances, motors and motor starters, and transformer connections. CERTIFICATE/A.A.S. ELECTIVE CREDIT ONLY. Three hours lecture, eight hours laboratory per week. Prerequisite: Electrical Construction and Maintenance I (ELEC 171).

ELEC 173
INTRODUCTION TO THE ELECTRICAL CODE (Certificate Program)
Fall, 1 credit hour

This introductory course will cover the basics of understanding the current national electrical code. Topics will include box and wire sizing, conduit calculation, service entrance design and installation requirements. Three hours lecture per week for five weeks.

ELEC 203
ENGINEERING TECHNOLOGY PROJECT
Fall, 1 credit hour

Senior project (capstone) course that gives the student an opportunity to think, design, construct, and present a finished product based on knowledge/experience from previous or current courses such as electronic circuits, telecommunications, microprocessors, and industrial controls. Each team is expected to do a classroom presentation on the final project. Examples of design project: High Power Emergency Power Supply (Alternative Energy), Industrial Monitoring System (using sensing devices), and Electronics/Communication Systems. All project proposals must be approved by course instructor. Three hours laboratory per week. Prerequisites: Electrical Energy Conversion (ELEC 215), Industrial Controls (ELEC 141), Electronic Circuits (ELEC 231), or permission of instructor.

ELEC 213
MICROPROCESSORS
Spring/Fall, 3 credit hours

The 8085 8-bit microprocessor instruction set and the internal hardware register structure are studied. The basic operations of the Fetch and Execute operations are examined. The student will generate several machine programs for interfacing input and output devices to the microprocessor. The PIC micro family or the STAMP family microcontrollers will be introduced to provide the student with hardware and software experience in working with these devices. The student will use a cross-assembler to generate the software programs to be written for the microcontrollers. The RS-232C Serial data transmission interface is also studied. A writing intensive course. Two hours lecture, three hours laboratory per week. Prerequisite: Digital and Laboratory (ELEC 212/219) or permission of instructor.
ELEC 215
ELECTRICAL ENERGY CONVERSION
Fall, 4 credit hours
The study of construction and operation of direct current generators and motors. The principles of operation of three-phase induction motors and alternating current generators are presented. Topics also include synchronous motor and single-phase motor principles and operation. Single-phase/three-phase transformer theory and circuit interrupting devices are also covered. Basic power transmission line circuit concepts and alternative (Green) electrical power generation methods are also investigated. Hands-on laboratory experiments are performed to reinforce the theory for each of the covered topics. Three hours lecture and three hours laboratory per week. Prerequisites: Electric Circuits 2 and Laboratory (ELEC 102/112) or permission of instructor.

ELEC 225
TELECOMMUNICATIONS
Spring, 3 credit hours
An intermediate course designed to give students theoretical and hands-on experience in telecommunications technology. Topics include how information is processed and transmitted, medium of transmission, Switching Hierarchy of North America (PSTN), wave propagation, line devices, Modulations, Multiplexing, Noise, Error detection; correction, and control. Transmission lines, ISDN/DSL and Antennas. Three hours lecture and two hours laboratory per week. Prerequisite: Electronic Circuits (ELEC 231) or permission of instructor.

ELEC 231
ELECTRONIC CIRCUITS
Fall, 4 credit hours
Basic theory and circuit applications of silicon, germanium, zener, light emitting (LED) and Schottky diodes, bipolar and field effect transistors (FET) are presented. The student is introduced to half-wave and full-wave DC power supplies and associated Ripple filters. Zener and Active Voltage Regulators circuits are studied. The basic operation of Metal Oxide; Semiconductor Field Effect Transistors (MOSFET) is also presented. Basic types of bi-polar transistor AC amplifiers (CE, CB, CC) and their FET counterparts are discussed. Three hours lecture and three hours lab per week. Prerequisites: Electric Circuits 1 and Laboratory (ELEC 101/109), Electric Circuits 2 and Laboratory (ELEC 102/112) or permission of instructor.

ELEC 232
INDUSTRIAL ELECTRONICS
Fall, 4 credit hours
The student is introduced to various electronic components and systems used in modern industry. Operational amplifier principles and applications including comparators (zero and non-zero crossing detectors), voltage followers, inverting and non-inverting amplifiers. Subtraction, summing (mixer), difference and compound amplifiers and active filters. Operational amplifier circuits are configured to make up complex analog circuits. Examples of these include the temperature controller and the pulse width modulation technique of DC motor speed control. The importance of digital computers used in modern industrial processes is stressed. Thyristors, photosensitive devices, optically coupled devices, and timer control circuits and various transducers are introduced. Three hours lecture, three hours laboratory per week. Prerequisite: Electronic Circuits (ELEC 231) or permission of instructor.

ELEC 235
TELECOMMUNICATIONS I (VERIZON PROGRAM)
Fall, 4 credit hours
The organization, architecture, setup, maintenance, hardware and software aspects of local area networks. Topics include: introduction to networks; types and characteristics of different network architectures and network topologies; intra and inter-network devices; network operating systems; peer-to-peer and client/server environments; LAN setup and maintenance, network printing; and internal web server. Four hours lecture per week. Prerequisites/corequisites: Telecommunications Electrical Circuits (ELEC 145) and Digital System for Telecommunications I (ELEC 126), Electronic Systems for Telecommunications I (ELEC 146) or permission of instructor.

ELEC 236
TELECOMMUNICATIONS II (VERIZON PROGRAM)
Spring, 4 credit hours
This course will cover the basics of Voice over Internet Protocol (VoIP) systems. Topics include: an overview of TCP/IP networks with a focus on VoIP; an introduction to VoIP; Quality of Service (QoS); VoIP system components; VoIP protocols and VoIP protocol analysis, VoIP architecture and VoIP codecs. Four hours lecture per week. Prerequisite/corequisites: Telecommunications I (ELEC 235) and Digital System for Telecommunications II (ELEC 126), Electronic Systems for Telecommunications II (ELEC 235) or permission of instructor.

ELEC 237
TELECOMMUNICATIONS III (VERIZON PROGRAM)
Fall, 4 credit hours
The organization, architecture, setup, hardware and software aspects of networked video delivery systems. Topics include: Video transport; compression; packet transport; multicasting; Content Ownership and Security; Transport security; IPTV-IP Video to the Home; Video File Transfer; VPN’s and Home-Office video links. A hands-on approach will be taken, with team projects throughout. Three hours lecture, two hours laboratory per week. Prerequisite: Telecommunications II (ELEC 236) or permission of instructor.

ELEC 238
TELECOMMUNICATIONS IV (VERIZON PROGRAM)
Spring, 4 credit hours
A survey of current and emerging technologies in Telecommunications will be presented. Topics covered will include: audio/video systems, security and surveillance, residential systems integration, business system integration, and integration of home and small business. Four hours lecture per week. Prerequisite: Telecommunications III (ELEC 237) or permission of instructor.

ELEC 243
COMPUTER-AUTOMATED CONTROL SYSTEMS
Spring, 2 credit hours
An introduction to some of the control software systems in use in industry. The student is introduced to structured PIC 16877 micro family programs to the extent that various control functions can be identified and modified. Memory addressed I/O and the relationship of memory location access (analog and digital) by a PIC microcontroller program. Several computer interfaces and motor-control circuits including stepper motor interfaces are studied. One hour lecture, three hours laboratory per week. Prerequisites: Electronic Circuits (ELEC 231), Industrial Controls (ELEC 141), Microprocessors (ELEC 213) or permission of instructor.

ELEC 255
ELECTRONIC SYSTEMS FOR TELECOMMUNICATIONS II (VERIZON PROGRAM)
Spring, 4 credit hours
This course is the continuation of Electronic Systems for Telecommunications I (ELEC 235) and is designed to further prepare students for the analysis and application of advanced electronic circuits as applied to the telecommunications industry. Topics include frequency modulation; communication techniques; digital, wired, and wireless; transmission lines; antennas; and fiber optics. Four hours lecture per week. Prerequisites: Electronic Systems for Telecommunications I (ELEC 146); Corequisites: Telecommunications II (ELEC 236); or permission of instructor.

ELEC 261
ELECTRICITY
Fall, 4 credit hours
Fundamentals of direct and alternating current circuits, resistance, inductance, capacitance, magnetism are presented. Also basic machine theory as it applies to both direct and alternating current types is covered. The theory of control devices such as relays, contactors and switches is studied. Also, basic number systems and digital logic functions are introduced. Three hours lecture, three hours laboratory per week. Prerequisite: College Algebra (MATH 121) or Pre-Calculus (MATH 123) or permission of instructor.

ELEC 263
ELECTRIC CIRCUITS
Spring, 3 credit hours
Electric circuit theory is introduced with emphasis on mathematical definitions of circuit elements. Network analysis techniques are presented within the framework of direct and alternating current theory. Transient forced and complete responses
Course Descriptions: ELECTRICAL, ENGLISH

of circuits involving resistance, inductance and capacitance are analyzed via differential and integral calculus. Three hours lecture per week. Prerequisites: Calculus II (MATH 162), University Physics II (PHYS 132), or permission of instructor.

ELEC 332
INDUSTRIAL POWER ELECTRONICS
Fall, 3 credit hours
This course is designed to prepare students with industrial electronics skills necessary to function as technologist. Topics include: Solid States Devices, Photo-Electronics, Inverters, Power Supplies, Operational Amplifiers, Open/Closed Loop Feedback Systems, SCRs, TRIACS, Thyristors, Photodet产业基地ive devices, Optically Coupled Devices, Timer Control Circuits, Motor Control Devices, and Process Control Devices. Note: Credit is given to a student who has taken ELEC 232 with a (C) grade or better. Two hours lecture, two hours laboratory per week. Prerequisites: Electronic Circuits (ELEC 231) or permission of instructor.

ELEC 343
ADVANCED CIRCUIT ANALYSIS
Spring, 3 credit hours
An advanced course designed to give students upper level circuit analysis experience. Topics include: Resistive Circuits, Nodal and Loop Analysis, Two-Port Networks, Application of Laplace Transform, Variable-Frequency Network Performance, Polyphase Circuits, and AC Steady-State Analysis. Three hours of lecture per week. Prerequisites: Electric Circuits 2 and Laboratory (ELEC 102/129), Calculus II (MATH 162) or permission of instructor.

ELEC 375
FIBER OPTIC COMMUNICATIONS
Spring/Fall, 3 credit hours
This course focuses on the transmission of information using fiber optics technologies. Topics include: Optical Fiber, Amplifiers, Transmitters, Receivers, Transceivers, Detectors, Modulation, Multiplexing, Optical Networks, Optical Sources and De-modulation. Two hours lecture, two hours laboratory per week. Prerequisites: Electronic Circuits (ELEC 231) or permission of instructor.

ELEC 380
LAN/WAN TECHNOLOGY
Spring, 3 credit hours
This course will cover topics include: Network topologies and connectivity devices, TCP/IP protocol suite and internet protocol addressing, networks and sub-networks, network-layer protocols, internet control message protocol, transport layer protocols, internet protocol version 6, configuration and domain name protocols, and Integrated Services Data Networks (ISDN). Two hours lecture, two hours laboratory per week. Prerequisites: Telecommunications (ELEC 225) or permission of instructor.

ELEC 383
POWER TRANSMISSION AND DISTRIBUTION
Spring, 3 credit hours
This course in electrical power generation and transmission will emphasize on those aspects that concern engineers and technologists in the performance of their tasks. Topics covered include: Hydropower, Thermal, Nuclear, and Wind Power Generating Stations, Transmission and Distribution of Electrical Energy, Direct Current Transmission, HVDC Light Transmission System, Power Stability, and Cost of Electricity. Two hours lecture, two hours laboratory per week. Prerequisites: Electrical Energy Conversion (ELEC 215) or permission of instructor.

ELEC 385
ELECTRONIC COMMUNICATIONS I
Spring, 3 credit hours
This is the first of a two series of courses to prepare students for modern telecommunications industry. Topics covered include: Noise, Transmission Lines, Wave Propagation, Error Checking, Communication Transmitters/Receivers, Coding Techniques, and Computer Communications. Two hours lecture, two hours laboratory per week. Prerequisites: Telecommunications (ELEC 225) or permission of instructor.

ELEC 386
ELECTRONIC COMMUNICATIONS II
Fall, 3 credit hours
This course is the continuation of Electronic Communications I, and is designed to prepare students for modern telecommunications industry. Topics include: Wireless digital communications, Optical communications, Cell phone communications, CDMA, OAS, Wireless technologies, Microwave and lasers, Antennas, and Waveguide and Radar. Two hours lecture, two hours laboratory per week. Prerequisites: Electronic Communications I (ELEC 385) or permission of instructor.

ELEC 405
SATELLITE COMMUNICATIONS
Fall/Spring, 3 credit hours
This course will emphasize on hardware and the basic operating techniques of every major supporting subsystem, the reliability analysis that allow satellites to operate for years without maintenance. Topics include: Propulsion, Structure, Thermal control, Reliability, Spacecraft testing, Spacecraft attitude, System performance, Telemetry, Tracking, and Command. Three hours lecture per week. Prerequisites: Electronic Communications I (ELEC 385) or permission of instructor.

ELEC 416
MICROELECTRONICS CIRCUIT DESIGN
Fall, 3 credit hours
This course will analyze analog electronic circuits, digital electronic circuits, and the foundations of electronic circuit design. Topics covered include: Operational amplifier circuit design, Integrated circuit biasing and active loads, Differential and multi-stage amplifiers, Feedback and stability, Operational Amplifier Circuits, Nonideal Effects in Operational Amplifier circuits, and Applications and design of integrated circuits. Laboratory exercises required [Selected design projects]. Two hours lecture, two hours laboratory per week. Prerequisites: Industrial Power Electronics (ELEC 332), Electronic Circuits (ELEC 231), or permission of instructor.

ELEC 436
BIOMEDICAL ELECTRONICS
Spring, 3 credit hours
This course is designed to give students theoretical and hands-on experience in biomedical instrumentation and measurement. Topics covered include: Medical Instrument Transducers, Biopotential Amplifiers, The pacemaker, Ultrasonic Equipment, Central Station Monitor, Electroencephalograph and Filtering, Electrosurgical Units and Laser Surgery, and Catheters and Blood Pressure Monitoring Devices. Two hours lecture, two hours laboratory per week. Prerequisites: Microelectronics Circuit Design (ELEC 416), Calculus II (MATH 162), or permission of instructor.

ELEC 477
CAPSTONE PROJECT
Spring, 3 credit hours
A learning experience by allowing students to propose, design and implement a project. This could be a study of a problem and solution of specific equipment, new product design, improvement of an existing product, and etc. All projects must be approved by course faculty. Independent Project. Prerequisites: Completion of seven semesters coursework or permission of instructor. Note: All students in this course must take the pre-graduation exit examination as part of this capstone course.

ELEC 292-295, 391-395, OR 491-495
SPECIAL TOPICS IN ELECTRICAL TECHNOLOGY
Fall/Spring, 1-4 credit hours
Special Topics in Electrical Technology will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available.

ENGL 097
INTRODUCTION TO ACADEMIC READING AND WRITING
Fall/Spring, 4 equivalent credits
This course will focus on the development of reading and writing skills which are necessary for comprehending academic material. The reading component requires the student to pursue vocabulary development, recognize main ideas, topics and supporting details, identify organizational patterns, organize material using mapping and outlining strategies and apply skills in a variety of reading/writing experiences (i.e. literary, technical, scientific). The writing component of the course will focus on grammatical proficiency as demonstrated in summary, comparison/contrast, and definition paragraphs, and by developing thesis statements, and writing short, well-developed papers in which arguments are made and defended. The course is competency
Course Descriptions: ENGLISH

ENGL 098
BASIC WRITING
Fall/Spring, 3 equivalent credits
This course is competency based and will focus on the development of writing skills which are necessary for academic success, including: developing thesis statements, using specific supporting information, organizing ideas, and demonstrating grammatical proficiency. Written work will be in paragraphs and short compositions (as demonstrated in summary, comparison/contrast, definition, and argument/persuasion papers). Additional tutorials may be required. Three hours lecture per week.

ENGL 101
EXPOSITORY WRITING
Fall/Spring, 3 credit hours
Expository Writing is designed to help the student communicate more effectively through writing various forms of expository prose; i.e. nonfiction writing that informs. These skills will be taught: gathering information, organizing information, recognizing audience and adapting information to specific audiences, and editing and rewriting techniques. Also included are an orientation to the College library and an introduction to basic research skills. This course is an alternate to Oral and Written Expression (ENGL 102). Students cannot take both. Classes are sometimes conducted in individualized and self-paced tutorial sessions. Three hours lecture per week.

ENGL 102
ORAL AND WRITTEN EXPRESSION
Fall/Spring, 3 credits
This course is intended to help students develop more effective skills in speaking and writing and will serve the needs of students in curriculum areas where such well-developed skills are required. The speech component is meant to make the student aware of the many elements common to both speech and writing and to provide students with an opportunity to present written ideas orally. By the end of the term, students will be proficient in the following areas: gathering information (including library research), organizing information, recognizing audience and adapting information to specific audiences, as well as writing, editing, and rewriting techniques. Students will be required to demonstrate proficiency in writing and in speaking before an appropriate audience. This course is an alternative to Expository Writing (ENGL 101); students cannot take both. The course fulfills the college's writing requirement. Three hours lecture per week.

ENGL 201
WRITING IN THE ARTS AND SCIENCES
Spring, 3 credit hours
This course is for students who wish to continue improving their writing skills. They are given the opportunity to read and write about various topics in Humanities, Social Science, Business, Economics, and Science. Using a variety of materials (including advertisements, films, television, imaginative and scientific literature, art, newspapers, and journal articles) students analyze, investigate, interpret, and formulate ideas through their own writing. Additionally, students further familiarize themselves with the library and research techniques. Three hours lecture. Prerequisite: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of the instructor.

ENGL 202
CREATIVE NON-FICTION
Fall/Spring, 3 credits
This course will provide opportunities for the student to continue developing and refining skills in writing from the basics of Expository Writing or Oral and Written Expression. Through their study of creative non-fiction forms—memoirs, nature writing, lyrical essays, magazine features, webpage content, etc.—students will learn to write essays that are not only persuasive but enjoyable. Each student will design writing situations according to interests and will develop imaginative essays of creative nonfiction. A liberal arts writing intensive course. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) OR Oral and Written Expression (ENGL 102) OR an equivalent course OR permission of instructor.

ENGL 203
WORLD LITERATURE: B.C. TO 16TH CENTURY
Fall, 3 credit hours
This course examines works of recognized value reflecting human thought and experience prior to the Neo-Classical period. Significant works from the Ancient Western World, including selections from Mid-Eastern writings; the Bible; and the history, literature, philosophy and religion of the Greek and Roman worlds through the Middle Ages and the Renaissance form the basic readings of this course. Three hours lecture per week.

ENGL 204
WORLD LITERATURE: 17TH TO 20TH CENTURIES
Spring, 3 credit hours
This course examines works of recognized value by tracing literary traditions which show the development of human values and thought in Neo-classicism, Romanticism, Naturalism, Symbolism, and Existentialism. Three hours lecture per week.

ENGL 205
SURVEY OF ENGLISH LITERATURE I
Fall, 3 credit hours
This is a survey course which will begin with the study of old English literature from 450 AD through 1800 AD. Students will study the important writers, their representative works, the historical, social, and political background for each period and the cultural changes and developments of the eras. Three hours lecture per week.

ENGL 206
SURVEY OF ENGLISH LITERATURE II
Spring, 3 credit hours
A study of English literature of the Romantic through Post-Victorian period. Students will study the important writers, their representative works, the historical, social, and political background for each period and the cultural changes and developments. Three hours lecture per week.

ENGL 207
LITERATURE OF THE EARLY AMERICAN REPUBLIC: COLONIZATION AND REVOLUTION, 1640-1830
Fall, 3 credit hours
This is a survey course which will examine the emergence of a distinctively American literature as it may be seen in significant works of the period from about 1620 to 1840. Students will study important American writers such as Bradford, Franklin, Poe, Hawthorne, Thoreau and others. The historical, social, and political background for each period and the cultural changes and development of the eras will also be examined. Three hours lecture per week.

ENGL 208
AMERICAN LITERATURE COMES OF AGE: 1830-PRESENT
Spring, 3 credit hours
This is a survey course which studies significant American authors from the pre-Civil War era and continues into the present. Students will study important American writers such as Whitman, Dickinson, Twain, Cather, Fitzgerald, Wright, Oates, Carver, and others. The historical, social, and political background for each period and the cultural changes and developments of the eras will also be examined. Three hours lecture per week.

ENGL 209
APPROACHES TO LITERATURE
Fall/Spring, 3 credit hours
This course is designed to acquaint students with different kinds of literature—plays, short stories, novels and poems—and with various methods of understanding literature. Students will read a wide variety of literary works and will be encouraged to employ proper literary terminology in writing about them. Emphasis will be on intelligent interpretation and on the relationships between literary themes and everyday life. Three hours lecture per week.

ENGL 211
THE AMERICAN NOVEL OF THE TWENTIETH CENTURY
Fall/Spring, 3 credit hours
This course will look at important changes in American attitudes that affected the American way of life in the 20th century as characterized through the eyes of such writers as: Sinclair Lewis, F. Scott Fitzgerald, Ernest Hemingway, John Steinbeck, William Faulkner, Richard Wright, Norman Mailer, Ken Kesey, Toni Morrison and others. In addition to the novels, there will be film, videotape and microfilm resources brought to the course. Three hours lecture per week.
ENGL 213
WAR AND LITERATURE
Fall/Spring, 3 credit hours GER 7

Focusing on American wars from World War II to the present, this course examines war and a range of human responses to the war experience as reflected through literature. Theories originating in the social sciences and historical information are included to enhance understanding of the literature. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102). Three hours lecture per week.

ENGL 214
CONTEMPORARY AMERICAN FICTION
Fall/Spring, 3 credit hours GER 7

Through the writings of current authors, this course will examine literary trends and their relationship to social, political, cultural phenomena in America. Students will be given an opportunity—through their own writing and class discussion—to explore contemporary ideas, values, and attitudes expressed in the literature. Three hours lecture per week.

ENGL 215
MULTICULTURALISM IN AMERICAN LITERATURE
Spring, 3 credit hours GER 7

This course will examine multiculturalism in America as reflected in its literature of the twentieth and twenty-first centuries. Works will be selected to highlight the diversity of American life including, but not limited to, race/ethnicity, gender, social class, sexual orientation, nationality, immigration status, religion, and family structure. Students should increase their understanding of the multicultural nature of our society and the existence of cultural traditions and practices that exist independently of those of the dominant American “mainstream” or overculture. Three hours lecture per week. Prerequisite: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of the instructor.

ENGL 216
CHILDREN’S LITERATURE
Spring, 3 credit hours GER 7

This is a survey course of traditional and modern literature written for young children. Emphasis is on critical appreciation and understanding of literary qualities appealing and valuable to children. Three hours lecture per week. Prerequisite: Expository Writing (ENGL 101), or Oral and Written Expression (ENGL 102), or permission of the instructor.

ENGL 217
COMIC BOOKS AS LITERATURE
Fall/Spring, 3 credit hours GER 7 & GER 8

Comic Books as Literature? Understandably, skeptics may scoff at the idea, viewing comics as merely kids' stuff. However, in recent years, comic books have become accepted as a respected form of art and literature by scholars, critics, and faculty alike. This course will examine the academic value of comics and graphic novels through study of their history, specialized artistic and literary techniques, and development as narratives. Students will be required to learn and apply elements of literature and sequential art as used by noted comic writers and illustrators such as Will Eisner, William Gaines, Scott McCloud, Paul Chadwick, Alan Moore, Art Spiegelman, and Alex Ross. Three hours lecture per week. Prerequisites include Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) AND one literature course or permission of instructor.

ENGL 218
SCIENCE FICTION WORKSHOP
Fall/Spring, 3 credit hours GER 7 & GER 8

Students explore the form by reading a wide range of science fiction stories that represent the standard indications of literary quality (i.e. characterization, plot, setting, point of view, style, theme, etc.). After a survey of the form, students will write science fiction stories of their own that incorporate the various literary qualities inherent in the genre and constructively respond to peers’ writing in a workshop format. Three hours lecture. Prerequisite: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of the instructor.

ENGL 219
THE ADIRONDACKS: LIFE AND LITERATURE
Fall/Spring, 3 credit hours

This course will provide students with the opportunity to explore various aspects of life and literature set in the Adirondack forest preserve. The Adirondacks, a cultural, recreational, spiritual and intellectual resource, are located in close proximity to SUNY Canton. They beckon us to come and enjoy their many splendors. Through a wide variety of readings, films, slides, and presentations, students will have the opportunity to sharpen their awareness of what the Adirondacks are and how they have shaped and influenced life and literature in America. Three hours lecture per week.

ENGL 221
CREATIVE WRITING
Fall/Spring, 3 credit hours GER 8

This course is an introduction to the study of imaginative expression in order to teach students the value of communication through creative writing, and also to encourage them to develop an appreciation for literary works of art. Students will write short stories and poetry about topics as unique and diverse as they themselves are in order to reveal new dimensions in their own lives and to bring a sense of dignity and respect to themselves and others. Basic technical problems and formal concepts of creative writing will be covered. Emphasis will be placed upon the writing of poems and short stories, but other forms of creative work may be utilized and discussed. Students will also study works by accomplished writers to see how those writers define and master their craft. A liberal arts writing intensive course. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), and one literature course, or permission of instructor.

ENGL 224
SURVEY OF NATIVE AMERICAN LITERATURES
Fall/Spring, 3 credit hours GER 6

Introductory survey of expressive and essayist literature by selected Native American authors from the United States and Canada. Works will be chosen to reflect the diversity of Native American thought and experience as revealed through literature. Emphasis is on contemporary short fiction and poetry, but readings include essays, drama and the novel. Discussion of cultural context encompasses the oral tradition(s) and relevant political and social history. Audio-visual media and Internet resources will supplement lectures and discussions. Three hours lecture per week. Prerequisite: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of instructor.

ENGL 225
AFRICAN AMERICAN LITERATURE
Fall/Spring, 3 credit hours GER 7

In this course, students will study African American authors from the Colonial Era up to the present. Topics to be covered include recurring themes and concerns, cultural pressures, historical contexts, intellectual currents and literary innovations. Students will study important African American writers such as Zora Neale Hurston, Richard Wright, Langston Hughes, Rita Dove, Toni Morrison, Alice Walker, and others. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of instructor.

ENGL 264
LIVING WRITERS SERIES
Fall/Spring, 3 credit hours GER 7

Students will read and discuss works by a selected group of contemporary authors. After reading a given work, students will meet and engage authors in a question and answer session followed by a public reading. This course includes an introduction to close reading skills, analysis of the elements of literary style in fiction, poetry, and creative non-fiction. Through intensive class discussion, writing workshops, and oral presentations, the students will learn how to articulate ideas clearly and be introduced to the basic elements of creative writing in three genres. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of instructor.

ENGL 265
WRITING IN THE HUMANITIES
Fall/Spring, 3 credit hours

This course will explore questions about the humanities and will introduce students to several disciplines within humanities. Through writing about a common theme, students will analyze, evaluate, and interpret texts, films, art and/or mu-
sic that reflects this common theme. Citation and integration of external sources will be expected. This is a writing intensive course for students in Liberal Arts and Sciences: General Studies or for students interested in transferring to a liberal arts program, especially in the humanities. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102); completion of 24 credits towards the major of General Studies; or permission of instructor.

ENGL 301 PROFESSIONAL WRITING AND COMMUNICATION
Fall, 3 credit hours
Professional writing and communication is specialized writing and communication that helps students respond to the challenges of a technical world. In this course, students, as professionals, will analyze needs and concerns for specific workplace situations, organize effective solutions, and prepare and produce the needed directions, reports, manuals, and/or other items, which will then be assessed and evaluated by other students acting as intended users. Students will create, design, and package these documents, selecting appropriate communication technology to accomplish the task, and will then display the technical data in writing and visually, as well as present such information orally when applicable. Students should be familiar with Desktop Publishing. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) and junior level status with a 2.0 GPA; or permission of instructor.

ENGL 305 PERPETRATORS & VICTIMS: CRIME AND VIOLENCE IN LITERATURE
Fall/Spring, 3 credit hours
In this course, through the study of various forms of literary expression, students will examine the impact of crime and violence in American culture. Analysis will focus on both perpetrators and victims of crime and violence, allowing students the opportunity to explore the influence of such happenings on their own lives and the society we live in today. Particular sub-topics include true crime, the criminal mentality and youth, crime and individuals, and crime and society. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), one literature course, and 30 credit hours earned with a cumulative GPA of 2.0, or permission of instructor.

ENGL 309 JOURNALISM
Fall/Spring, 3 credit hours
The first half of this course will provide a general study of journalistic principles and practice in gathering and writing news. The second half will explore feature writing, with an emphasis on longer, research-based issues writing and interview techniques. Students in this course will cooperate in the publication of the SUNY Canton Tribune. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) and junior level status or permission of the instructor.

ENGL 310 WRITING YOUR LIFE: FORM & FUNCTION IN MEMOIRS
Fall/Spring, 3 credit hours GER 8
Memoirs are an author's commentary on his or her life, experiences, and the times he or she lives in. Writers record important events based upon their own observations and knowledge of events and/or personalities that they feel have significantly influenced their lives. In this writing intensive course, students will study a variety of literary forms within the memoir genre, and they will create memoirs of different forms from their own life experiences. Students will recognize that both concrete details and abstract ideas in memoirs represent universal truths and will create poems and stories that reflect both. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), one literature course, and 30 credit hours earned with a cumulative GPA of 2.0, or permission of instructor.

ENGL 315 SHORT FICTION: THE ART OF THE TALE
Fall/Spring, 3 credit hours GER 8
In this course, students will explore the short story genre by reading selections from various writers around the world in order to gain perspective on both the literary form of the short story and the myriad of ideas expressed within that form. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) AND one literature course AND 30 credit hours earned with a cumulative GPA of 2.0 or permission of instructor.

ENGL 317 WORLD POETRY
Fall/Spring, 3 credit hours GER 6
This course explores the vast wealth of non-Western poetry. We draw from the historical canon of writings, but we have distinctly modern concerns in this class; our wide reading helps us understand divergent (and poetic) cultural issues, such as Japanese anime cartoons, Islamic world views, global hip hop and graffiti, and post-colonial literature. While all our readings will be in English, our consideration of the linguistic and political concerns of translation allows us to analyze the dynamic interchange between local cultures and globalization. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) OR Oral and Written Expression (ENGL 102), one lower-level literature course, or permission of instructor.

ENGL 320 NATIVE AMERICAN AUTOBIOGRAPHY
Fall/Spring, 3 credit hours GER 6
This course is a survey of the means by which Native American people have recorded their lives. Texts will be selected from pre-contact pictorial and oral auto-biographical narratives through contemporary written texts, film, and electronic media. Historical context will be provided in lecture. Emphasis is on works published since 1980. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) OR Oral and Written Expression (ENGL 102) AND one lower level literature course AND 30 credit hours earned with a cumulative GPA of 2.0 OR permission of instructor.

ENGL 325 CONTEMPORARY YOUNG ADULT LITERATURE
Fall/Spring, 3 credit hours
In this course, students will explore contemporary young adult novels as a genre of literature worthy of study in its own right. To accomplish this, they will examine its historical development, current trends, and enduring characteristics, as well as its influence on readers. As they analyze the works and various critical perspectives, they will formulate their own definition of the genre and see where the form stands both in relation to contemporary adult literature and in relation to recognized elements common to all literary study. In addition, particular themes to be covered include the “new realism” of life and problems; the “old romanticism” of wishing and winning; adventures, mysteries, the supernatural, and humor; fantasy, science fiction, utopias, and dystopias; and the people and places of history including novels about racism and the Holocaust. At the end of the study, by experiencing a young adult fictive world, students will illuminate, gain insight into, and confirm our own life experiences without regard to age restrictions or preconceived notions about the genre of young adult literature. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) OR Oral and WrittenExpression (ENGL 102), one literature course, and 30 credit hours earned with a cumulative GPA of 2.0, or permission of instructor.

ENGL 330 WOMEN IN LITERATURE
Fall/Spring, 3 credit hours
This course will examine women in literature through a variety of literary works and genres. Students may explore such themes as female archetypes and stereotypes; the cultural alienation of women of color; female identity in contemporary culture; or other themes pertinent to the female human experience. Students will enrich their understanding of literature and the roles and experiences of women in shaping such literature. Students may read from works and genres of literature as diverse as the Bible, Greek drama, The Canterbury Tales, Romantic and Victorian poetry, and the contemporary novel. Three hours lecture per week. Prerequisite: Expository Writing (ENGL 101) OR Oral and Written Expression (ENGL 102), Introduction to Women's Studies (WMST 201) or one literature course or permission of instructor.

ENGL 350 FLASH FICTION
Fall/Spring, 3 credit hours GER 8
The Flash Fiction story (also called short-shorts;
**ENGL 291-295, 391-395 OR 491-495**  
**SPECIAL TOPICS IN ENGLISH**  
**Fall/Spring, 1–4 credit hours**

Special Topics in English will fulfill the general English component of the distribution requirement of the College. It may be repeated for credit depending on the content of the course. It is not a course offered on a regular basis within the department. The intent of a special topics course is to offer an educational experience which is topical, not available within the regular curricular offerings, and may even be offered interdepartmentally depending on the nature of the course.

**ENGS 101**  
**INTRODUCTION TO ENGINEERING**  
**Fall, 2 credit hours**

This course will introduce students to the profession of engineering and the tools used to practice engineering. The student will explore the design process through various projects that will include a major design project. During these projects, students will learn about computer aided design, engineering analysis, sketching, critical thinking, ethical decision making, and how to work in a team environment. Students will develop skills in oral presentations and effective writing. Students are assessed through performance on projects, exams, quizzes, homework, and oral and written reports. Two, two-hour laboratories per week.

**ENGS 102**  
**PROGRAMMING FOR ENGINEERS**  
**Spring, 2 credit hours**

This course provides the software skills necessary to create predictive models and solve basic engineering problems. Students will learn to make statistical inferences about the data while creating graphical presentation of the results using engineering-related software. The skills taught in this course will assist in the analysis of engineering problems in more advanced course work. Two hours recitation in computer laboratory per week.

**ENGS 201**  
**STATICS**  
**Fall, 3 credit hours**

A vector approach to particle equilibrium, equivalent force systems, rigid body equilibrium and analysis of structure. Additional topics include friction, centroids and centers of gravity and moments of inertia. Three hours lecture per week. Prerequisites: Calculus II (MATH 162), University Physics II (PHYS 132), or permission of instructor.

**ENGS 202**  
**DYNAMICS**  
**Spring, 3 credit hours**

This course is a vector approach to the solution of dynamics problems involving rectilinear motion, curvilinear motion, kinetics of particles, kinematics of rigid bodies, and plane motion of rigid bodies. Newton’s laws, work-energy principles and impulse and momentum principles are used in the solutions. Three hours lecture per week. Prerequisite: Statics (ENGS 201) or permission of instructor.

**ENGS 203**  
**ENGINEERING STRENGTH OF MATERIALS**  
**Spring, 3 credit hours**

This course is designed to introduce elementary analysis of deformable bodies subjected to various loading including strength, deformation and stability analyses. Students will also be introduced to more advanced concepts in order to use sound judgment regarding the design of structures and components. Three hours lecture per week. Prerequisite: Material Science (ENGS 205), Statics (ENGS 201), or permission of instructor.

**ENGS 205**  
**MATERIALS SCIENCE**  
**Fall, 3 credit hours**

The underlying atomic and crystalline structure of materials is studied and how these structures affect their engineering properties. The mechanical, electric, chemical, magnetic and thermal properties of metals, ceramics, polymers and composites are examined. Three hours lecture per week. Prerequisite: College Chemistry I (CHEM 150), Calculus II (MATH 162), and University Physics II (PHYS 132), or permission of instructor.

**ENGS 291-295, 391-395 OR 491-495**  
**SPECIAL TOPICS IN ENGINEERING SCIENCE**  
**Fall/Spring, 1–4 credit hours**

Special Topics in Engineering Science will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available.

**ENSC 101**  
**INTRODUCTION TO ENVIRONMENTAL SCIENCE**  
**Fall/Spring, 3 credit hours**

This course is divided into five major sections: Resources/Human Population, Matter/Energy, Ecology, Environmental Law/Economics and Risk, and Environmental Degradation. Resources/Human Population will include resources types, alternative energy sources, and human population dynamics. Matter/Energy will include the basic principles of matter and energy from a physics and/or chemistry perspective in preparation for the Ecology and Environmental Degradation sections. Ecology will include ecosystem basics, land ecosystems, and aquatic ecosystems. Environmental Law/Economics and Risk will include major laws dealing with pollution discharge/cleanup, treatment of pollution and an economic commodity, risk, and technology principles. Environmental Degradation will include water resources, sewage treatment, air pollution, and hazardous/solid waste. Three hours lecture per week. Prerequisites: Beginning Algebra (MATH 100); Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102); or an 80 on the NYS ELA Examination; or permission of instructor.

**ESCI 102**  
**INTRODUCTION TO ENVIRONMENTAL SCIENCE LABORATORY**  
**Fall/Spring, 1 credit hour**

This laboratory is designed to provide scientific laboratory experiences using environmental issues as a data source or focus. Each exercise involves the collection of data, manipulation of the collected data, and analysis of the data. The experiments include energy conservation, chemical toxicology, river/stream attributes, pond morphology, design of private sewage systems, evaluation of solar/wind power potential, solid waste/composting and the evaluation of the distribution of an environmental contaminant. Two hours laboratory per week. Prerequisites: Beginning Algebra (MATH 100); Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102); or permission of instructor. Corequisite: Introduction to Environmental Science (ESCI 101) or permission of instructor. Recommended math level—Intermediate Algebra (MATH 106). If the student is also enrolled in ESCI 101 and withdraws from ESCI 101 prior to the last day to withdraw, withdrawing from this course is also required.

**ESCI 105-LECTURE**  
**ESCI 106-LAB**  
**ENERGY RESOURCES**  
**Spring, 3–4 credit hours**

This course examines the physical, economic, and political interactions of the following energy resources: fossil fuel, nuclear power, biomass and solar energy. Three hours lecture per week. If lab is elected, an additional two hours laboratory per week is required. Recommended prerequisite: students have high school algebra or equivalent.

**ESCI 107**  
**EARTH SCIENCE**  
**Fall/Spring, 4 credit hours**

This course introduces earth processes and phenomena. The birth of the universe, our solar system, and the earth are explored. The internal composition and structure of the Earth is studied. Factors that affect the structure of the earth are examined: continental drift, plate tectonics, and crustal deformation. Students learn about common earth materials that make up the Earth. The impact of weathering, erosion, running water, and glaciers on the earth’s surface and landforms is studied. Additional topics will include, but are not limited to: earthquakes, volcanoes, mass movement, geologic
time, and geologic mapping. Lecture related exercises/assignments, laboratory exercises, readings, and review questions help students learn and understand the course material. Three hours lecture, two hours laboratory per week. Students cannot receive credit for both ESCI 107 and GEOL 101.

ESCI 110
INTRODUCTION TO METEOROLOGY
Fall/Spring, 3 credit hours
This is an introductory meteorology course with topics covering the structure of the atmosphere, meteorological measurements, air movement, air masses and fronts, violent storms and climate. Three hours lecture per week.

ESCI 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE
Fall/Spring, 1–4 credit hours
Special Topics in Environmental Science will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available.

ESOL 096
ACADEMIC COMMUNICATION
Fall/Spring, 4 credit hours
This course is designed to help first-semester international or English language learners to enhance communication skills required in American academic contexts. Students will develop critical reading skills and academic writing skills with an overview of grammar and mechanics. Concurrent focus is on building oral fluency and expanding academic vocabulary. Four hours lecture per week. This course is an alternate to Introduction to Academic Reading and (ENGL 097) or Basic Writing (ENGL 098) for ESL students. Leveled by placement test score.

FREN 101
CONTEMPORARY FRENCH I
Fall, 4 credit hours GER 9
This course will introduce the student to the sound system and grammatical structure of the French language. The focus will be on developing skills in the areas of aural comprehension, speaking, reading, and writing. By the end of the semester, the student will have a basic understanding of grammar, including word formation, verb conjugations, idiomatic expressions, and cognates. This course will also discuss various cultural aspects of the French-speaking world. Four hours lecture per week. This course is only for the true beginner or for students who have had less than three years of high school French. Students who have taken more than three years of high school French within the last three years can enroll in this course only with the permission of the instructor.

FSAD 111
STUDY OF FUNERALS
Fall, 3 credit hours
This course discusses the role of funeral directors and other death-related professions in contemporary American society. Terminology, duties, and responsibilities of the funeral director through the entire funeral process are extensively covered. Historical methods of preservation and memorialization, both religious and secular, as well as modern funeral customs of select societies around the world are examined. Protocol and procedures for funerals of active duty military are specifically addressed as is mass casualty incident response by funeral directors as established by D-MORT. Exploration of personal attitudes and responses to death is included as a means of developing an appreciation for the emotional features of this profession. Three hours lecture per week.

FSAD 121
ANALYTICAL EMBALMING TECHNIQUES
Spring, 4 credit hours
This is the first of three embalming courses. Topics included are Public Health considerations, ethical performance, use and design of embalming instruments, and the chemical theories of preservation and decomposition. A final grade of “C” or better is required to continue in the program. Three hours lecture, three hours laboratory per week. Prerequisite: matriculation in the program.

FSAD 129
CLINICAL PRACTICUM
2 credit hours
Students are required to work in a selected funeral home for a period of five weeks. During this period, students relate the theoretical background they have acquired to the practical functions of a funeral director. Faculty maintains contact with the student and the funeral director during the practicum by personal visits and/or phone conversations. This is an unpaid position. Prerequisite: successful completion of one semester of embalming or permission of instructor.

FSAD 211
EMBALMING AND ASEPTIC TECHNIQUES
Spring, 4 credit hours
Subsequent to Analytical Embalming Techniques (FSAD 121), this course focuses on unique and special problems encountered by the embalmer in professional practice. Microbiology of pathogens and techniques of infection control are a major aspect. Three hours lecture, three hours laboratory per week. Final grade of “C” or better is required to continue in the program. Prerequisite: matriculation in the program or permission of instructor.

FSAD 214
FUNERAL HOME MANAGEMENT I
Spring, 3 credit hours
The study of management techniques and procedures that is necessary for successful operation of a funeral home as a specific type of small business. Three hours lecture per week.

FSAD 225
PROFESSIONAL FUNERAL PRACTICE
Fall, 3 credit hours
This course is a study of business laws pertaining to funeral home operation with special attention given to the Federal Trade Commission Funeral Rules and regulations. Funeral home merchandising with emphasis on casket and vault construction is a major component. Proper professional practices based on the codes of ethics of funeral associations are discussed and evaluated. Three hours lecture per week.

FSAD 307
HUMAN RESPONSE TO DEATH
Spring, 4 credit hours
This writing intensive course is a survey of the psychological, philosophical, and sociological components of human loss and grief. The understanding of bereavement is central to the development of communication and counseling skills. Laboratory exercises include arranging and conducting and participating in mock funerals. Three hours lecture, two hours laboratory per week. Prerequisite: Death, Dying and Bereavement (SSCI 315), and Professional Funeral Practice (FSAD 225), or permission of instructor.

FSAD 308
INTRODUCTION TO INTERNSHIP
Fall/Spring, 1 credit hours
An internship is required to complete degree requirements in Funeral Services Administration. This course is taken in a semester prior to the Internship. Students locate a suitable site, construct a memorandum of understanding with a preceptor at that site, and create a learning contract. A liability insurance binder through the college must be established. Goals and objectives, a grading rubric, and communication methods for the experience are determined cooperatively by student, preceptor, and faculty supervisor. One hour per week. Prerequisite: Completion of 75 credit hours toward graduation including Clinical Practicum (FSAD 129), or permission of instructor.

FSAD 321
ADVANCED EMBALMING PRACTICE
Spring, 4 credit hours
Designed to improve the skills and knowledge base of students and practicing licensed personnel, this course focuses on the less common techniques applied in unusual situations. Waterless embalming, regional freezing procedures, mummification, alternative machinery, and special purpose chemicals will be explored. Unique embalming situations are addressed such as long-term storage, entombment vs. burial, decomposed bodies, stillbirths, religious limitations, anatomical embalming, and fragment treatment in anticipation of delayed final disposition. Perfection of techniques of sterile procedure, terminal disinfection, and personal protection is expected. Three hours lecture, three hours laboratory per week. Prerequisites: Analytical Embalming Techniques (FSAD 121), Embalming and Aseptic Techniques (FSAD 211), or current embalmer's
Course Descriptions: \textbf{FINANCE}

license, or permission of instructor.

\textbf{FSAD 322 FUNERAL HOME MANAGEMENT II}

\textbf{Fall, 3 credit hours}

This course addresses the practical problems facing funeral managers in contemporary society. Marketing strategies, pricing methods, creative personnel management, alternative memorial activities, prearrangement sales, financial assessment techniques, aftercare, transition planning, expansion of facilities, and establishment of consortia of funeral homes. Recruitment and training of non licensed staff, compliance methods, salary incentives, and record keeping which meet legal requirements are included as well. Three hours lecture per week. Prerequisites: Funeral Home Management (FSAD 214), Business Organization and Management (BSAD 100) or permission of instructor.

\textbf{FSAD 323 RESTORATIVE ART}

\textbf{Spring, 4 credit hours}

This course familiarizes the student with instruments, materials, and development of techniques for restoring the dead human body damaged as a result of disease and trauma. The course also explains the technique for the proper application of cosmetics. Three hours lecture, two hours laboratory per week. Prerequisite: Human Anatomy and Physiology I (Biol 207), Study of Funerals (FSAD 211), or permission of instructor.

\textbf{FSAD 325 MORTRUARY COMPLIANCE}

\textbf{Fall/Spring, 2 credit hours}

This course is taken during the last semester of the Mortuary Science curriculum, this ensures compliance with all Health Department regulations, and federal and state laws pertaining to funeral directing in a state where the student intends to practice. These topics are exhaustively clarified and validated through extensive and focused specialized testing including the National Board Examination. Students must take the NBE to pass this course. Two hours lecture per week. Prerequisites: Human Response to Death (FSAD 307), Funeral Service Law (FSAD 401), or permission of instructor.

\textbf{FSAD 401 FUNERAL SERVICE LAW}

\textbf{Spring, 3 credit hours}

This course deals with laws directly related to funeral service including solicitation of clients, rights of possession, cemeteries, interstate agreements, international shipping, funding vehicles, association rights, lobbying, local ordinances, and employer/employee relationships. General Business Law concepts are also covered. Three hours lecture per week. Prerequisite: majors only or permission of instructor.

\textbf{FSAD 406 BEREAVEMENT COUNSELING}

\textbf{Spring, 3 credit hours}

Building upon the rudimentary counseling skills developed in FSAD 307 this course addresses deeper and more varied emotional problems stemming from loss. Utilization of theories of grief from several authorities and application of a range of counseling techniques to individual situations makes this a useful approach to delivery of human services. Anticipatory grief, hospice, disenfranchised loss, child death, suicide, homicide, absent grief, and extended grief are major topics. Application of the skills developed is limited to the funeral home setting. The student will observe and describe the progress of a person who has suffered a recent loss as an original research project. Three hours lecture per week. Prerequisite: Human Response to Death (FSAD 307) or permission of instructor.

\textbf{FSAD 420 CURRENT ISSUES IN FUNERAL SERVICE}

\textbf{Fall, 3 credit hours}

As the field of funeral service continues to change in response to societal demands, this class provides the opportunity to keep abreast of these developments. Topic areas will include: public health, government regulation, funeral home management, religious and secular rites and rituals. Major focus will be on the effects that changes might have on the grief process, societal readjustment following death, and creative ways for funeral service practitioners to address the future. Historical perspective will be utilized as a predictive tool in assessing society’s new outlook on loss and recovery. Three hours lecture per week. Prerequisites: minimum junior level status or permission of instructor. This is a writing intensive course.

\textbf{FSAD 440 INTERNSHIP IN FUNERAL SERVICES ADMINISTRATION}

\textbf{Fall/Spring, 8 credit hours}

Students will spend at least 40 hours per week for eight weeks in this experiential course. They will perform the standard duties of Funeral Director trainees in the areas of Funeral Directing and Embalming. Additionally they will participate in a project determined during the Introduction to Internship course held in a previous semester. Successful completion of the course is based on assessment of supervising faculty and funeral home preceptor according to the assessment plan detailed in FSAD 308. Prerequisites: Introduction to Internship (FSAD 308) or permission of instructor.

\textbf{FSMA 201 INTRODUCTION TO FINANCIAL PLANNING}

\textbf{Fall semester, 3 credit hours}

This course is an introduction to personal finance planning covering the personal financial planning process. Topics covered will include: developing and analyzing financial statements, plans and budgets; the notion of time value of money; money and credit management; fundamentals of taxes, insurance, investments, retirement planning, major asset accumulation, and estate planning. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral & Written Expression (ENGL 102), Foundations of Financial Accounting (ACCT 101), and Microeconomics (ECON 103), or permission of instructor.

\textbf{FSMA 210 INTRODUCTION TO FINANCE}

\textbf{Fall/Spring, 3 credit hours}

This introductory course covers fundamental elements of business finance. Discussions will include the concepts of financial analysis, time value of money, security evaluations, risk and return, capital budgeting, and other issues in corporate decision making. Three hours lecture per week. Prerequisites: Introduction to Information Technology (CITA 110), GER Math OR Foundations of Financial Accounting (ACCT 101), or permission of instructor.

\textbf{FSMA 301 PERSONAL FINANCE}

\textbf{Fall/Spring, 3 credit hours}

This course will provide broad coverage of personal financial decisions. Topics covered include basic financial planning, tax issues, managing savings and other liquid accounts, credit management, insurance, managing investments, and retirement planning. Knowledge of financial products, analytical tools, and economic analysis will be cultivated in the context of setting personal financial goals and measuring progress. Three lecture hours per week. Prerequisites: General Education Requirement for Math or Math of Finance (MATH 108) and Foundations of Financial Accounting (ACCT 101) or permission of instructor.

\textbf{FSMA 312 FINANCIAL MANAGEMENT}

\textbf{Spring, 3 credit hours}

This course is a continuation of Introduction to Finance (FSMA 210). Portfolio theory, efficient market theories, and Capital Asset Pricing Model will be further elaborated and applied to make capital budgeting, capital structure, and dividend policy decisions within corporations. Special topics on agency conflicts, mergers and acquisitions, and corporate risk management will also be discussed. Three hours lecture per week. Prerequisite: A minimum grade of C in Introduction to Finance (FSMA 210) is required or permission of instructor.

\textbf{FSMA 315 GLOBAL INVESTMENT}

\textbf{Fall, 3 credit hours}

The primary objectives of this course are to provide the students with a fundamental knowledge of domestic/international financial markets, financial securities and how they are valued and traded in order to achieve a desired investment objective, from both a theoretical perspective and the perspective of investment managers. Special attention is given to application of the basic concepts to the three major capital markets: stock, bond and financial derivatives markets. Three lecture hours per week. Prerequisites: Foundations of Financial Accounting (ACCT 101), Business Law I (BSAD 201), and Principles of Macroeconomics (ECON 101), or permission of instructor.
FSMA 320
ANALYSIS AND PORTFOLIO MANAGEMENT
Fall/Spring, 3 credit hours
The course provides a foundation for selecting financial assets and form sound investment decisions. Lectures cover both traditional and modern approaches to security selection, investment analysis and portfolio management, with emphasis on investment strategy and investment performance evaluation. The major topics to be covered will include portfolio analysis, company/industry analysis, optimal portfolio selection, efficient transactions, performance evaluation and investment ethics. Current topics, such as options, futures, swaps and other financial instruments are also explored. Three lecture hours per week. Prerequisites: Introduction to Finance (FSMA 210) or permission of instructor.

FSMA 325
FINANCIAL COMPLIANCE AND REGULATION
Fall, 3 credit hours
The role of regulatory and compliance professionals in the financial service industry is currently undergoing enormous change and development. This course will take an interdisciplinary approach incorporating economics, ethics, finance, law and public policy in surveying the specific goals and objectives of the financial regulatory and compliance function. The course is designed with the practitioner in mind with an emphasis on the anticipation and prevention of regulatory and compliance problems before they occur. Prerequisites: Introduction to Finance (FSMA 210), Business Law I (BSAD 201), Principles of Macroeconomics (ECON 101), and Principles of Banking (BSAD 120), or permission of instructor.

FSMA 330/ECON 330
FINANCIAL MARKETS AND INSTITUTIONS
Fall/Spring, 3 credits
This course provides an understanding of financial markets and financial institutions that operate within the financial markets. It introduces the financial markets where flow of funds occur through financial markets instruments, such as bonds, money markets, mortgage markets, foreign exchanges, stocks and derivatives (futures, forward, options, and swaps). It focuses on financial institutions, such as the Federal Reserve, commercial banks, thrifts, insurance companies, investment banks, finance companies, mutual funds, and pension funds. In addition, it provides a comprehensive introduction to risk management within the framework of financial services industry. Three hours lecture per week. Prerequisites: Principles of Macroeconomics (ECON 101) or Principles of Microeconomics (ECON 103), and a minimum 45 credit hours, or permission of instructor.

FSMA 410
ESTATE PLANNING
Spring, 3 credit hours
This course will focus on the areas of estate planning that are commonly incurred in the financial planning process. An understanding of the methods of wealth and estate transfer, as well as asset taxation protection will be discussed. Three hours lecture per week. Prerequisites: Introduction to Financial Planning (FSMA 201) and junior/senior level status, or permission of instructor.

FSMA 415
GLOBAL FINANCE
Spring, 3 credit hours
This course will cover issues related to both international financial markets and the financial operations of a firm within the international environment. Major topics include the international monetary systems, foreign exchange regime, management of foreign exchange exposure, international financial management, taxation of international income, and international mergers and acquisitions. Three hours lecture per week. Prerequisites: Global Investments (FSMA 315) or permission of instructor.

FSMA 420
FINANCIAL DERIVATIVES
Spring, 3 credits
This course will examine the dramatic growth of the derivatives markets in the last two decades. This growth, triggered by deregulation, globalization, increased uncertainty and volatility, has empowered enterprises to successfully manage their financial price risk. Topics to be covered include: the use of derivatives for risk protection, cash flow modification, arbitrage, and investment. Three hours lecture per week. Prerequisite: Junior level status in Finance or permission of instructor.

FSMA 422
RISK MANAGEMENT
Fall, 3 credit hours
Proactive management of financial price risk has become possible through the dramatic growth of the derivatives markets. Beginning in the early 1980’s, the ability to create new financial products utilizing derivatives inaugurated the process now referred to as Financial Engineering. Through Financial Engineering, risks to the firm can be largely mitigated or reduced using derivatives to offset price, commodity, and cash flow risks. Three hours lecture per week. Prerequisite: Financial Derivatives (FSMA 420) or permission of instructor.

FSMA 429
ORIENTATION TO CULMINATING EXPERIENCE
Spring, 1 credit hour
This course is intended as the precursor to the Senior Culminating Experience in the Finance, BBA program. Seniors will meet with faculty on a weekly basis to discuss résumé preparation, job interviewing techniques, identifying and securing internships and internship requirements. This course is a prerequisite to Finance Internship (FSMA 480). Fifteen lecture hours to include: lecture, discussion, internship preparation and review. Prerequisite: Senior level status in Finance program.

FSMA 460
SENIOR PROJECT
Fall/Spring, 3-15 credit hours
This course is an alternative to FSMA 480. It is designed for students who are unable to complete a 15-credit internship. Students will complete a senior research project specifically addressing issues under the umbrella of financial management. Under the guidance of a faculty mentor, the student will submit a research proposal, conduct research, prepare a thesis style report, and present a defense to a thesis committee. This course may be repeated for credit up to a maximum of 15 credit hours. 37.5 project hours per credit hour. Prerequisites/corequisites: Introduction to Culminating Experience (FSMA 429) and senior level status in the Finance program or permission of instructor.

FSMA 480
FINANCE INTERNSHIP
Fall/Spring, 6-15 credit hours
In conjunction with a field supervisor at the host organization, the student will perform prescribed work within an administrative setting. This is a culminating experience in which the student will be expected to integrate and apply concepts gained in previous course work to actual situations. The internship will be tailored to the individual student’s career interests and the needs of the supervising organization. Such internship assignments may include, but are not limited to, information gathering, analysis, planning, implementation, evaluation, and other tasks and responsibilities as required. Fifteen weeks; 37.5-40 hours per week, as required. Prerequisites: Orientation to Culminating Experience (FSMA 429) and senior level status in the Finance program, or permission of instructor.

FSMA 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN FINANCE
Fall/Spring, 1-4 credit hours
Special Topics in Finance will generally include topics of interest or topics not covered in courses offered by the department or in combinations not currently available.

FYEP 101
FIRST YEAR EXPERIENCE
Fall/Spring, 1 credit hour
This course is designed to introduce, acculturate and connect students to the college campus. In-depth discussions, specialized topics and a final presentation tied to a common First Year Experience theme will assist students in formulating professional goals and achieving academic success. One hour of lecture per week.

GEOG 101
INTRODUCTION TO GEOGRAPHY
Spring, 3 credit hours
GER 3
This course provides a survey of two major themes in geography—the physical landscape and the distribution and interrelationships of human activities over the globe. Special emphasis is given to developing a geographical perspective to address economic, population and social problems at local,
Course Descriptions: GEOLOGY, GRAPHIC & MULTIMEDIA

regional and global levels. Three lecture hours per week. Social Science elective.

GEOL 101
PHYSICAL GEOLOGY
Fall/Spring, 3 credit hours GER 2
This course includes a general look at the earth including its composition and structure on a large scale. The processes which cause changes in and on the earth will also be studied. Topics will include: the study of minerals and rocks, the origin and type of rocks, the rock cycle and the identification of many of the common rocks and minerals. Other major topics include: geologic time, weathering, erosion, glaciers, running water, volcanoes, earthquakes and plate tectonics. Three hours lecture per week.

GEOL 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN GEOLOGY
Fall/Spring, 1–4 credit hours
Special Topics in Geology will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available.

GMMD 101
INTRODUCTION TO MEDIA STUDIES
Fall/Spring, 3 credit hours GER 7
This course will introduce students to the process of media analysis. Emphasis will be placed on key terms for adopting a critical eye towards mass media and the development of media literacy in both traditional (print, radio, film, television) and emerging (digital and web-based) forms. Three hours lecture per week.

GMMD 102
INTRODUCTION TO DESIGN
Fall/Spring, 3 credit hours GER 8
Introduction to Design is a studio-based class investigating the tools, materials, and foundational concepts of design. Introduction to Design will present the methodology and critical awareness for problem solving inherent in all design fields. Through the discussion, examination and execution of a variety of design exercises, students will develop their understanding of visual composition and design theory. While the course exercises focus on 2-D graphic design, this broad introduction to design theory develops the creative problem solving skills integral to all fields of design. Three hours lecture per week.

GMMD 103
INTRODUCTION TO DIGITAL DESIGN SOFTWARE: PHOTOSHOP BASICS
Fall/Spring, 3 credit hours
In GMMD 103 students learn how to use the industry standard software Adobe Photoshop to create/edit digital imagery and enhance digital photographs. Photoshop is explained through the teaching of its tools and the underlying principles that govern them. Along with providing an overview of the software this course serves as a starting point in understanding the Adobe software collection suite and its role in the design industry. Two hours lecture, two hours laboratory per week.

GMMD 201
DIGITAL PHOTOGRAPHY
Fall, 3 credit hours GER 8
Students will develop competency in digital image capture, processing, and critical evaluation. Hands-on activities and studio/lab will permit each student to investigate the applications of applied digital and hybrid photography. Through technical studio assignments, critiques, and presentations, students will increase their skills in image printing, camera operation and using computer imaging software. Students will also develop critical awareness of composition and the relationship of digital photography to other media. Three hours lecture per week.

GMMD 211
FILM ANALYSIS
Fall/Spring, 3 credit hours GER 8
As an introduction to the art of film, this course will present the concepts of film form, film aesthetics, and film style, while remaining attantive to the various ways in which cinema also involves an interaction with audiences and larger social structures. Throughout the course, we will closely examine the construction of a variety of film forms and styles-including the classical Hollywood style, new wave cinemas, experimental films, and contemporary independent and global cinemas. We will pay particular attention to the construction of film images, systems of film editing, film sound, and the various ways in which film systems can be organized (narrative, non-narrative, genres, etc.) There is a required weekly film screening. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of instructor.

GMMD 301
3-D DESIGN
Spring, 3 credit hours
3-D design bridges the concepts of design with the basic methodologies and concepts of three dimensional fabrication and composition. The course will challenge students to further develop and employ problem solving methodology to a variety of basic conceptual and practical problems in 3-Dimensional space. The course emphasizes the basic sculptural methodologies, including subtractive and additive processes, assemble, construction, carving, casting, molding, armature, and kinetics/mechanics. The ability to move between 2-dimensional and 3-dimensional conceptualization/realization is the primary focus of this class. Three hours lecture per week. Prerequisite: Introduction to Design (GMMD 102).

GMMD 302
DIGITAL PHOTOJOURNALISM
Fall/Spring, 3 credit hours
Building upon the introductory skills of GMMD 201, this course explores the use of the digital photographic image in narrative, documentary, and editorial form. The classroom lectures will emphasize the act of photographing and the process and history of photojournalism. Through practical assignments, students will develop their skills and awareness in on-location photography, constructing and presenting visual narratives, and the ethics and issues of photojournalism. Particular emphasis will be placed on the mature exploration of contemporary themes, the recognition and application of appropriate narrative voice in projects, and the increased awareness of ethical and technical issues and responsibilities in photojournalism. Three hours lecture per week. Prerequisites: Digital Photography (GMMD 201) and Introduction to Design (GMMD 102), or permission of instructor.

GMMD 303
EXPERIMENTAL DIGITAL PHOTOGRAPHY
Spring, 3 credit hours
This course builds sequentially on the introductory skills developed in GMMD 201. Through lectures, tutorials, and hands-on laboratory exercises, students will expand their capabilities in digital image capture, processing, printing and presentation. Experimental techniques and approaches in digital imaging will be emphasized. In addition to broadening technical and conceptual capabilities, through research and laboratory projects students will achieve a more sophisticated understanding of contemporary digital media and begin to locate their work in relation to contemporary fine arts and media. Three hours lecture per week. Prerequisites: Introduction Design (GMMD 102) and Digital Photography (GMMD 201), or permission of instructor.

GMMD 313
STUDIES IN GENRE FILM
Fall/Spring, 3 credit hours GER 8
This course will provide an opportunity to study one film genre in depth. Emphasis will be on thematic cultural analysis of the genre’s role in contemporary society. Different topics will be offered on a cycle, including the following: Documentary Film, Horror in Film, The Film Western, History of the American Comic Film, and Science Fiction in Film. Three hours lecture per week. Prerequisites: Junior status and at least on literature course. Students may take one genre for Gen ED. credit. Students may take two genres for elective credit.

GMMD 330
WEB DESIGN AND DEVELOPMENT
Fall/Spring, 3 credit hours
Students will be introduced to basic code, web development strategies, and current industry standards. Students will learn how to create and edit HTML and CSS with web authoring tools. Special emphasis will be placed on file management and image design. The course will culminate in a final project utilizing the design process. Three hours lecture per week. Prerequisites: Introduction to Design (GMMD 102), Introduction to Programming (CITA 180) or equivalent, or permission of the instructor.
Course Descriptions: GRAPHIC & MULTIMEDIA DESIGN, HEALTH & FITNESS

GMMD 331
DIGITAL ILLUSTRATION AND TYPOGRAPHY
Fall/Spring, 3 credit hours
This course emphasizes the acquisition of software skills in vector based graphics. Students explore digital workflow, visual communication, and the design process in relation to illustration, and logo and graphic identity. Two hours lecture, two hours studio per week. Prerequisites: Introduction to Design (GMMD 102), Digital Photography (GMMD 201), or permission of the instructor.

GMMD 401
MULTIMEDIA PRODUCT DESIGN
Fall, 3 credit hours
This course will provide for an experimental and experiential approach to integrating content with new media techniques and processes. Students will use computers as creative tools to explore narrative, immersion, virtuality, visuality, and networked public sphere. Students will also develop planning and organizing skills for experimental interaction and imaging projects. Three hours lecture per week. Prerequisites: Visual Programming and Development Tools (CITA 342), and Digital Photojournalism (GMMD 302), and senior level status, or permission of instructor.

GMMD 409
ISSUES IN NEW MEDIA JOURNALISM
Fall/Spring, 3 credit hours
This course explores the politics of new media entering the world of traditional print and broadcast journalism. Students are asked to consider whether non-centralized forms represent a new democratization of publishing or whether they erode the possibility of objective journalism. Emphasis is placed on situating these new forms within a history of journalism from its 17th century beginnings through the new journalism of the sixties and into the present implications of reporting through social networks. Three hours lecture per week. Prerequisites: Professional Communication (ENGL 301), and Journalism (GMMD 309), and senior level status, or permission of instructor.

GMMD 411
DIGITAL DOCUMENTARY VIDEO
Fall/Spring, 3 credit hours
This course builds upon the technical, compositional and production techniques learned in GMMD 201 and GMMD 102. Through project-based studio production, this course will explore the practice of documentary filmmaking. Students will discuss basic tools and principles of film narration, montage and the technical and compositional aspects of using archival, found and produced footage. Through lectures, critiques, research and studio exercises, students will explore the creative process of interpreting, representing, and affecting the sociological and environmental relationships of this age by means of the moving image. Three hours lecture per week. Prerequisite: Digital Photography (GMMD 201) and Introduction to Design (GMMD 102), or permission of instructor.

GMMD 412
EXPERIMENTAL DIGITAL VIDEO
Fall/Spring, 3 credit hours
This course builds upon the technical, compositional and production techniques learned in GMMD 301 and GMMD 102. Through tutorials, studio assignments, critiques, and research, students will utilize advanced techniques and conceptual approaches to produce and critique several digital video works. Students will combine the elements of performance, scripting, sound, computer graphics, and video techniques, as well as have in-group discussions about student- and professional-produced films. Three hours lecture per week. Prerequisites: Digital Photography (GMMD 201) and Introduction to Design (GMMD 102), or permission of instructor.

GMMD 420
ANIMATION TECHNIQUES
Fall/Spring, 3 credit hours
This course develops an overview of the techniques and history of 2D and 3D animation, including stop-motion and tweened animation. Students engage in hands-on projects involving the development of hand-drawn and computer-generated animation. Emphasis is placed on understanding the place of animation in the context of the film, television, internet, and gaming industries, and the development of a personal animation style. Three hours lecture per week. Prerequisites: Digital Illustration and Typography (GMMD 331), Experimental Digital Video (GMMD 412), Experimental Digital Photography (GMMD 303), or permission of the instructor.

GMMD 432
VIRTUAL WORLDS
Spring, 3 credit hours
This course examines gaming concepts, non-linear narrative, delivery systems and software for the entertainment industry. Working with 2D and 3D visual concepts, virtual reality, interactivity and sound the student will develop media for the entertainment industry. Environments, characters, gaming strategies, role playing concepts, navigation and feedback will be part of the information presented within the course. Three lecture hours per week. Prerequisites: Visual Programming and Development Tools (CITA 342), Classical Theater (ENGL 393) or Contemporary Theater (ENGL 394), Creative Writing (ENGL 221) or Short Fiction (ENGL 315) and senior level status, or permission of instructor.

GMMD 440
ORIENTATION TO CULMINATING EXPERIENCE IN GMMD
Fall, 1 credit hour
This course will focus on allowing the student to create a proposal for either a combination of group and individual culminating projects or for a culminating internship. One hour lecture per week. Prerequisites: Senior level status and successful completion of all previous New Media work, or permission of instructor.

GMMD 441
GRAPHIC AND MULTIMEDIA DESIGN GROUP PROJECT
Spring, 3 credit hours
This course will focus on the planning, design, development, and production of a new media project by a team of students under the supervision of a faculty advisor. Three hours lecture per week. Prerequisite: senior level status and successful completion of all previous New Media work, or permission of instructor.

GMMD 442
GRAPHIC AND MULTIMEDIA DESIGN INDIVIDUAL PROJECT
Spring, 4 credit hours
This course will focus on the planning, design, development, and production of a new media project by individual students under the supervision of a faculty advisor. Three hours lecture per week. Prerequisite: senior level status and successful completion of all previous New Media work, or permission of instructor.

GMMD 443
ARTS MANAGEMENT INTERNSHIP
Spring, 8 credits
This course will focus on the challenges of negotiation, public relations, and management in arts contexts. Students will explore a variety of management situations in broadcasting, galleries, museums, and theaters. Students will complete a supervised internship in local arts organizations. Three weeks of three hour lecture, 12 weeks of 36-40 hours internship. Prerequisite: senior level status or permission of instructor.

GMMD 291-295; 391-395; 491-495
SPECIAL TOPICS IN GMMD
Fall/Spring, 1-4 credits
An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in Graphic and Multimedia Design.

HEFI 301
HEALTH & WELLNESS PROMOTION
Fall/Spring, 3 credit hours
This introductory course in Health and Wellness promotion introduces students to concepts required for development of successful Health/Wellness promotion programs for a variety of patient/client populations. Concepts such as the impact of socioeconomic status on health/wellness, cultural diversity as related to health/wellness, methods of creating change, and teaching strategies and theory, including teaching the adult learner, will be covered. Students will discuss current literature related to these topics and develop a promotion/wellness intervention project based on an area of their choice. Three hours lecture per week. Prerequisite: junior level status or permission of instructor.
HEFI 302
HEALTH AND WELLNESS ACROSS THE LIFESPAN
Fall/Spring, 3 credit hours
Students will explore the application of health promotion principles for individuals at different stages of life, from birth to old age. Disease and health promotion issues common to each population will be identified and discussed. Students will formulate strategies to promote healthy lifestyles and advocate for positive changes in health policy for individuals and communities. Three hours lecture per week. Prerequisite: Health and Wellness Promotion (HEFI 301) or permission of instructor.

HEFI 303
EXERCISE PHYSIOLOGY
Fall/Spring, 3 credit hours
Students will study immediate and long term physiological responses and adaptations to exercise. Specifically, the role of the musculoskeletal, neuro-muscular, cardiovascular, and respiratory systems in regulating exercise will be covered in detail and adaptations of these systems to exercise will be discussed. Environmental and hormonal influences will also be included. Students will explore specific aspects of training for sports performance. Three hours lecture per week. Prerequisite: Human Anatomy & Physiology I & II (BIOL 217/218) or permission of instructor.

HEFI 310
ADVANCED CARE AND PREVENTION OF ATHLETIC INJURIES
Fall/Spring, 3 credit hours
This course is designed to further assess and reinforce the skills necessary for injury recognition, assessment, prevention, management, and treatment of athletic injuries. In the lab setting students will learn the theory behind tape and the proper application of athletic bandaging and wrapping. Two hours lecture, one hour laboratory per week. Prerequisite: Human Anatomy & Physiology I & II (BIOL 217/218) and Junior level status, or permission of instructor.

HEFI/PSYC 320
PSYCHOLOGY OF HEALTH AND FITNESS
Fall/Spring, 3 credit hours
This course will examine human behavior and how it relates to healthy behavior and fitness. The effects of psychological factors on health, fitness and wellness, and the effects of physical activity and sports on psychological well-being will be discussed. The concept of Positive Psychology, a strength-based, preventive approach to personal and community research and interventions will be an integral part of the course. Three hours lecture per week. Prerequisite: Human Development (PSYC 225), junior level status, or permission of instructor.

HEFI/SSCI 370
RESEARCH METHODS IN SOCIAL AND HEALTH SCIENCES
Fall/Spring, 3 credit hours
This course provides an intense comprehensive study of the scientific research process utilized in the social and health sciences. Students will be trained to be critical consumers of published research and will be expected to complete a research project. Topics that will be covered include the underlying theory of research; and data management and presentation. Three hours lecture per week. Prerequisite: Introduction to Psychology (PSYC 101), or Introduction to Sociology (SOCI 101), or Introduction to Science and Technology of Behavior (SSCI 245), or Principles of Macroeconomics (ECON 101), or Principles of Microeconomics (ECON 103); Statistics (MATH 141) or equivalent course work, and Expository writing (ENGL 101) or Oral and Written Expression (ENGL 102), or permission of the instructor. Additionally, students must have at least junior level status or permission of the instructor.

HEFI 375
FITNESS AND SPORTS NUTRITION
Fall/Spring, 3 credit hours
This course will provide students with an understanding of the link between nutrition and exercise. Specifically, students will examine the unique demands of exercise training for athletes at all levels and the impact of nutrition on performance. Students will integrate their knowledge of exercise physiology and sports nutrition to create a dietary plan that enhances athletic performance. Three hours lecture per week. Prerequisite: Exercise Physiology (HEFI 303) or permission of instructor.

HEFI 401
FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION
Fall/Spring, 4 credit hours
Students will acquire the knowledge and skills to assess the physical fitness of apparently healthy individuals. Focus will be on the four components of physical fitness: cardiorespiratory fitness, muscular fitness, body composition, and flexibility. Hands-on training in assessment and exercise prescription for these four components will be included during laboratory sessions. Three hours lecture, two hours laboratory per week. Prerequisite: Health and Wellness Across the Lifespan (HEFI 302), Exercise Physiology (HEFI 303), or permission of instructor.

HEFI 402
STRENGTH AND CONDITIONING
Fall/Spring, 3 credit hours
This course serves to provide students with advanced knowledge and skills to design and implement safe and effective strength and conditioning programs specifically for an athletic population. An in-depth study of resistance training will be included, along with specialized topics such as bioenergetics, endocrine response to resistance exercise, and use of performance-enhancing substances. Both aerobic and anaerobic exercise prescription for the athlete will be included. This course provides specific preparation for the student who wants to pursue certification as a strength and conditioning specialist (CSCS) through the NSCA. Three hours lecture per week. Prerequisite: Exercise Physiology (HEFI 303); Corequisite: Fitness Assessment and Exercise Prescription (HEFI 401); or permission of instructor.

HEFI 403
COMMUNITY WELLNESS
Fall/Spring, 3 credit hours
This course will introduce students to the benefits of establishing health promotion programs in community settings. Students will be provided with the knowledge and tools required to assess community needs, plan and implement wellness and fitness programs, and assess program outcomes. Theories of behavioral change will guide the assessment and planning process. Three hours lecture per week. Prerequisite: Health and Wellness Across the Lifespan (HEFI 302); Corequisite: Fitness Assessment and Exercise Prescription (HEFI 401); or permission of instructor.

HEFI 406
ORIENTATION TO INTERNSHIP
Fall/Spring, 1 credit hour
This course is a pre-requisite course that will prepare students for HEFI 407. The instructor will discuss best practices in searching for internship opportunities as well as the fundamentals for developing an internship contract that meets SUNY Canton guidelines. Students will be expected to submit an internship proposal which will include anticipated goals and objectives for the internship, as well as a timeline for completion. Students will also be provided guidance in documenting daily reflections and activities in a journal as well as tips for building a professional portfolio. One hour lecture per week. Prerequisite: Senior level status in HEFI program or permission of instructor.

HIST 101
HISTORY OF THE WESTERN HERITAGE
Fall, 3 credit hours
GER 5
This is a basic survey course in European history from early civilizations to approximately 1550 A.D. The focus is on the values, traditions, and changes that have characterized and determined Western culture, political institutions, social structures, and economic systems. Among the topics to be studied are: the Classical civilizations of Greece and Rome, Christianity, Islam, the Middle Ages, the Renaissance, and the Protestant Reformation. Three hours lecture per week.

HIST 102
MODERN EUROPE
Spring, 3 credit hours
GER 5
A study of European history from the Reforma- tion to the present. The focus is on several areas of historical change which have transformed Europe: culture (the Enlightenment, romanticism, contemporary European thought), politics (absolutism, power politics, and imperialism, ideologies liberal- ism, nationalism, socialism, and fascism), society
and the economy (urbanization, industrialization, and the development of a global economy). Three hours lecture per week.

HIST 103
EARLY AMERICAN HISTORY
Fall/Spring, 3 credits
This course deals with the leading aspects of American history from discovery through the end of the Civil War. Attention is given to political issues, institutions, political parties, leadership, and diplomatic and constitutional questions, as well as economic, social and intellectual trends. This course also focuses on what is unique in the American historical experience, and relates American history to the broader global context. Three hours lecture per week.

HIST 105
MODERN U.S. HISTORY
Spring, 3 credit hours
This course deals with the leading aspects of American history from the Civil War to the present. Attention is given to political issues, institutions, political parties, leadership, and diplomatic and constitutional questions; as well as economic, social, and intellectual trends. This course also focuses on what is unique in the American historical experience and relates American history to the broader global context. Three hours lecture per week.

HIST 204
U.S. IMMIGRATION HISTORY THROUGH RACE, CLASS, AND GENDER
Fall/Spring, 3 credit hours
This course examines the history of immigration to the United States from the mid-19th century through the 20th century. The main themes of the course will include issues of race, class, and gender and how they factor into the immigration process and subsequent settlement period. A plethora of immigrant groups will be studied not exclusive to the following: Eastern and Southern Europeans, Asian and Pacific Islanders, Latin Americans, and Africans. Three hours lecture per week. Prerequisites/corequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102); and Early American History (HIST 103), or Modern United States History (HIST 105), or Introduction to Women's Studies (WMST 201); or permission of the instructor.

HIST 205
BASEBALL IN AMERICAN SOCIETY
Fall/Spring, 3 credit hours
This course examines the historical impact that baseball has had on economic, social and cultural issues in America, particularly in the twentieth century. The main themes include issues of race, class, gender, labor, and immigration and how they factor into the progression of American society. Particular topics include, but are not limited to, the Negro Leagues, Latino and Japanese participation, women, and free-agency. Three hours lecture per week. Prerequisites/corequisites: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), and Modern U.S. History (HIST 105), or permission of instructor.

HIST 217
WORLD HISTORY, FROM 1300 TO THE PRESENT
Fall/Spring, 3 credit hours
Using a global perspective, this course will consider how different peoples and civilizations interacted, or failed to, in the last 700 years. Some of the themes that will be emphasized and examined are the roles that conquest, trade, diffusion of ideas and technology played in bringing different parts of the world together. Three hours lecture per week.

HIST 303
COLONIAL AMERICAN HISTORY
Spring, 3 credit hours
This course explores the important themes in the history of the British American colonies in the seventeenth and eighteenth centuries. Particular attention is devoted to social and cultural developments and to the bringing together of peoples from three different continents in the colonies. Other avenues of inquiry relating to such matters as imperial politics and economic growth will also be pursued. Students will be encouraged to identify arguments and to consider multiple viewpoints. Journal writing will provide the opportunity to hone writing and analytical skills, and encourage students to pull together a broad range of materials and construct coherent arguments. Three hours lecture per week. Prerequisites: Early American History (HIST 103) and Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of instructor.

HIST 304
UNITED STATES WOMEN'S HISTORY
Fall/Spring, 3 credit hours
This course explores the social, economic, and political themes in United States Women's History from pre-European contact through the twentieth century. The diversity of women is emphasized and issues of class, race, national origin, activism, work, and the role of motherhood will be explored. Civi-lization and the status of women in relationship to government will be discussed and analyzed. Three hours lecture per week. Prerequisites: 30 credit hours, Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), and a 2.50 cumulative GPA, or permission of instructor.

HIST 305
HISTORY OF THE VIETNAM WAR
Fall/Spring, 3 credit hours
This course provides an in-depth examination of the 20th century conflict in Vietnam through the lens of American involvement and interaction. Ideological, political, social, and economic contexts will be utilized as the events of the war are analyzed from both American and Vietnamese perspectives. The impact of the Vietnam War on American society, politics, and its Cold War foreign policy and conduct will also be scrutinized. Three hours lecture per week. Prerequisite: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), and Modern United States History (HIST 105) or World History (HIST 217); or permission of the instructor.

HIST 307
AMERICAN THOUGHT SINCE 1865
Fall/Spring, 3 credit hours
This course is a survey of American ideas from the end of the Civil War to the present. The topics covered in this course include: debates over Darwinism, religious belief, scientific truth and aesthetic judgment, as well as the intellectual underpinnings for the major movements and institutions of the post-Civil War era including democracy, feminism, civil rights, anticommunism and capitalism. Three lecture hours per week. Prerequisite: Modern U.S. History (HIST 105) or permission of instructor.

HIST 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN HISTORY
Fall/Spring, 1-4 credit hours
An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in history.

HLTH 103
HEALTH: CURRENT PERSPECTIVES AND PRACTICAL APPLICATIONS
Fall, 3 credit hours
This general elective course is designed as an introductory health education course. The course provides opportunity for students to explore healthy living styles as well as learn about major health problems in the United States. The students become more informed about their rights and responsibilities related to remaining healthy or for accessing health services. Three hours lecture per week.

HLTH 104
INTRODUCTION TO GERONTOLOGY
Fall, 3 credit hours
This interdisciplinary course is designed to introduce the student to the field of gerontology (the study of aging). The aging person is viewed in a holistic manner. Topics to be included are demography of aging, social and economic characteristics of aging, biological, psychological and social theories of aging, biomedical aspects of aging and selected issues in health and aging. Three hours lecture per week.

HLTH 105
PATHOLOGY
Fall, 3 credit hours
This course considers the natural response of the human body to disease, the process and progress of disease, and the implications for community health. Particular emphasis is placed on causes of deaths of interest to the embalmer. Three hours lecture per week. Open to all students.

HLTH 110
SURVEY OF COMPLEMENTARY MEDICINE
Fall, 3 credit hours
This is an introductory course, which surveys
the eight major areas of complementary medicine. The eight major areas include Chinese medicine, Ayurveda, Naturopathic medicine, Homeopathy, Mind/Body medicine, Osteopathic medicine, Chiropractic medicine, and Massage Therapy/Body works. Three hours lecture per week.

HLTH 115
COMMUNICABLE DISEASES
Fall/Spring, 3 credit hours
The course is designed for students interested in health. The major emphasis is reportable communicable diseases. Students learn how to identify the disease agent, the reservoir, the mode of transmission, and the control of the spread. Diseases will be grouped as gastrointestinal, respiratory, blood-borne, and sexually transmitted. Three hours lecture per week.

HLTH 175
BASIC NUTRITION
Spring, 3 credit hours
This basic nutrition course is designed to create an awareness of everyday healthy eating and physical activity necessary for a healthy lifestyle. This course discusses personal profiles, Body Mass Index, calorie needs, dietary guidelines, and chronic disease risk factors. Three hours of lecture per week. Prerequisite: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), or permission of instructor.

HLTH 200
MEDICAL TERMINOLOGY OF DISEASE
Fall/Spring, 3 credit hours
Medical terminology will be presented from a disease viewpoint. Diseases will include a cross-section of several different areas such as skin, respiratory, blood, and neonatal. Three hours lecture per week.

HLTH 212
HAPPINESS, HEALTH AND WELLBEING
Fall/Spring, 3 credit hours
Our world has become increasingly technological, complex and fast paced. As we work to achieve a life of happiness and contentment, many ignore the quality of our lives and the health of our body and mind. This course is a contemporary exploration of happiness in everyday life and its relationship to the well being and the health of our body and mind. Three hours lecture per week.

HLTH 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN HEALTH
Fall/Spring, 1-4 credit hours
Special Topics in Health will include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available. Prerequisite: permission of the instructor.

HSMB 101
INTRODUCTION TO HEALTH SERVICES MANAGEMENT
Fall, 4 credit hours
This course introduces the student to the health care system in the United States and to the role of the health services manager. The course describes the fundamentals of health care system components, health care administrative functions, and health care management principles. Throughout the course, the instructor will work with students to develop their research, analytical, and communication skills in the health services management field. The laboratory hours will be incorporated into the weekly class sessions and will give the instructor the opportunity to plan field trips and other observational experiences. Three hours lecture, two hours laboratory per week.

HSMB/NURS 301
PUBLIC HEALTH ISSUES
Fall, 3 credit hours
The course begins with an overview of the history and development of public health. The student is then provided with the opportunity to examine the current public health care system. The fundamentals of epidemiology also are covered. Applications to the students’ practice settings are explored. Health planning, health promotion, and global health issues are included. Three hours lecture per week. Prerequisites: Microbiology (BIOL 209) and Survey of Mathematics (MATH 111) OR Statistics (MATH 141), or permission of instructor.

HSMB/NURS 302
LEGAL AND ETHICAL ISSUES IN HEALTH CARE
Spring, 3 credit hours
This writing intensive course prepares the student to examine legal and ethical issues in health care as they impact the health services manager, or others involved in health care decision making. A variety of commonly experienced legal situations and ethical dilemmas will be discussed, including the basics of civil and criminal health care law, professional liability, antitrust, managed care, organizational restructuring, patient rights, scientific research, rationing, health care practices, and other issues. The course also will educate students in legal research methods applied to the health services management field. Three hours lecture per week. Prerequisites: Public Health Issues (HSMB 301) or junior level status or permission of instructor. Writing intensive course.

HSMB 303
OCCUPATIONAL HEALTH AND SAFETY
Spring, 3 credit hours
This course explores health and safety issues related to the workplace. Environmental controls that reduce transmission of communicable diseases, exposure to toxic substances, hazardous working conditions and accidents are included. Public policy decisions and health control program compliance issues are addressed. The effects of human-environmental interactions on physical, mental, and social well-being are explored. Three hours lecture per week. Prerequisites: junior level status or permission of instructor.

HSMB 304
U.S. HEALTH CARE SYSTEM
Fall, 3 credit hours
The United States health care system is a large and vital segment of the United States economy. This course identifies and examines the various components of the U.S. health care system and the interrelationship of those components. Topics covered include health care in a free enterprise system, government regulation, health services access and utilization, health delivery settings, health care personnel, the pharmaceutical industry, public health, health insurance, managed care, quality of care, health policy, and other topics. Three hours lecture per week. Prerequisites: junior level status or permission of instructor.

HSMB 305
MANAGED CARE
Spring, 3 credit hours
Managed care is the integration of the delivery and financing of health care. This course identifies and examines the various components of managed care and the interrelationship of those components. Topics covered include insurance and risk management applied to managed care, types of managed care organizations and arrangements, funding options, delivery options, prospective payment systems, quality assurance, outcomes measurement, contracting, provider responses, legal liability, regulation, public managed care programs, and other topics. Three hours lecture per week. Prerequisite: U.S. Health Care System (HSMB 304) or permission of instructor.

HSMB 306
HEALTH CARE FINANCING
Fall, 3 credit hours
This course provides the student with an opportunity to understand the fundamentals of the financial management of health care organizations. The course includes such topics as accounting, financial statement analysis, time value money, cost analysis and budgeting, and agency costs and their effects on financial decision making. Three hours lecture per week. Prerequisites: U.S. Health Care System (HSMB 304), Introduction to Finance (FSMA 210), or permission of instructor.

HSMB 307
HEALTH CARE FACILITY ADMINISTRATION
Spring, 3 credit hours
The course explores the overall responsibilities of an administrator in contemporary health care facilities. These responsibilities involve planning, implementation, and other management skills. To contribute to the achievement of these skills, along with a greater knowledge of health operations, the course examines health care organizational structures, operational aspects of clinical and non-clinical departments, delivery and finance system issues, quality improvement, strategic planning, decision-

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making, evaluation, and other administrative related topics. Three hours lecture per week. Prerequisite: U.S. Health Care System (HSMB 304) or permission of instructor.

HSMB 308
ORIENTATION TO INTERNSHIP
Fall, 1 Credit
An internship is required to complete the degree in Health Services Management. The course prepares students for the internship by: securing an appropriate site and establishing learning objectives, describing journal contents and a portfolio, establishing contracts for SUNY approval and appropriate liability insurance documentation.

HSMB 330
GRANT WRITING STRATEGIES
Fall 2 credit hours
This course provides a general overview of the grant seeking process. The facilitator will discuss the types of projects that generally get funded, sources that can be used to identify prospective funders, as well as the essential components of a well written grant. Participants will create a needs statement, develop a project that will address that need, write clear goals and objectives for that project, develop a budget and identify an evaluation tool that could be used to measure outcomes for the project. Two hours lecture per week. Prerequisite: junior level status or permission of instructor.

HSMB 408
INTERNSHIP FOR HEALTH SERVICES MANAGEMENT
Spring, 3–12 credit hours
Working in conjunction with a field supervisor, the student performs delegated work within an administrative setting. This is a culminating experience in which the student is expected to integrate concepts gained in previous program course work. The internship will be individualized according to the career interests of the student and the needs of the supervising organization. Internship assignments may include information gathering, analysis, planning, implementation, evaluation, budget and other responsibilities. A minimum grade of “B” is required. Three to twelve weeks at 40-45 hours per week or part-time equivalent. Prerequisite: completion of all program requirements or permission of the program director.

HSMB 409
SENIOR PROJECT
Spring, 3–9 credit hours
This course is required for students who opt for 3–9 credits of internship instead of 12 credits of internship. Depending on the number of internship credits, students will be required to complete 3–9 credits of a senior project. The senior project requires extensive research and analysis on a health services management topic that is approved and supervised by the program director. The topic can include a project with a health care organization. Senior project may be repeated with different projects for a maximum of 9.0 credits. The student will be required to submit a written proposal of study for each project. The proposal will be evaluated for content specifics and appropriate credits. Upon completion of a project, the student will submit a written study and also be prepared to respond to questions on the study’s methodology, findings, and conclusions. Project hours: 108–324. Prerequisite: completion of all program requirements and permission of the program director.

HSMB 410
SENIOR SEMINAR
Spring, 3 credit hours
Senior Seminar serves as a capstone course for HSM program students who are completing their internship. The course, which examines advanced issues and contemporary developments in health services management, utilizes the training students have received in their prior courses and in their internship experiences. A minimum grade of “B” is required. Three hours lecture per week. Prerequisite/corequisite: Internship for Health Services Management (HSMB 408) or Internship for Veterinary Services Management (VSCT 408) or permission of the program director.

HUMA 189
INTRODUCTION TO ACTING
Fall/Spring, 3 credit hours
This course will examine various strategies for creating and performing characters from written and unwritten texts. Students will practice improvisation and perform various roles for both self and peer evaluation. Various acting techniques and methods for creating characters will be utilized. Three lecture hours per week.

HUMA 421
SUSTAINABILITY ISSUES
Fall/Spring, 3 credits
This course is a cross disciplinary study of the issues and efforts surrounding ecological crisis and the move towards sustainability in contemporary design. In this seminar course, students investigate sustainability issues through lectures from several disciplinary angles, including the sciences, legal studies, economics, humanities and engineering. Following study and discourse around the problems and goals of sustainability, students work with faculty to develop a semester long independent project pursuing some of these goals. Three hours lecture per week. Prerequisites: 70 credit hours or permission of instructor required.

HUSV 420
SEMINAR IN HUMAN SERVICES
Fall/Spring, 3 credit hours
This course includes issues related to public policy, professional behavior, interpersonal dynamics, and work-related skills in human service settings. Students must obtain program faculty approval before registering. This course is taken with the HUSV 421 Practicum course to allow for field experience issues to be discussed in a group format. Three hours lecture per week. Prerequisites: Intro to Human Services (HUSV 201) and Theory and Practice of Counseling (PSYC 310); Corequisite: Practicum in Human Services (HUSV 421); or permission of instructor.

INDEPENDENT STUDY
Fall/Spring, credits variable
A planned learning experience accomplished independent of formal classroom and/or laboratory sessions through written contract between a student and a member of the College’s faculty. Credits earned may be applied as electives or may be taken in lieu of required subjects under special circumstances. Credits: Variable, not to exceed a total of 12 hours toward the degree or certificate.

INTL 400
STUDY ABROAD
Fall/Spring, 3–15 credits
This course is designed to offer a student an opportunity to enroll in the study abroad programs and courses through other SUNY campuses and gain cultural experience. The student takes courses overseas and complete all the requirements outlined by the campus administering the study abroad experience. They also have an opportunity to interact with students from other campuses. Prerequisites/Corequisites: Based on the specific requirements outlined by the administering campus. Most programs require at least sophomore level standing with the GPA of at least 2.5. Freshman must be in good standing and check with the International Programs Office to ensure eligibility.

JUST 101
INTRODUCTION TO CRIMINAL JUSTICE
Fall/Spring, 3 credit hours
This course is a comprehensive study of the development of criminal justice systems and operations in the United States. This course includes detailed examination, analysis and evaluations of the major components of the criminal justice system. Three
hours lecture per week. Open to any student.

**JUST 105**
**CORRECTIONAL PHILOSOPHY**
**Fall/Spring, 3 credit hours**
A survey of the philosophy, theory, and practice involved in the treatment of convicted law violators of all ages within the institutional environment. This course provides an overview of the correctional field; its origins, development, current status, and future prospects. The role of corrections and its importance in the reduction and control of crime and recidivism is evaluated. Three hours lecture per week.

**JUST 110**
**CRIMINAL LAW**
**Fall/Spring, 3 credit hours**
A study of the fundamentals of criminal law: i.e., actus reus, mens rea, distinctions between grades of offenses; criminal responsibility; and the substantive law. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

**JUST 111**
**CRIMINAL PROCEDURE**
**Fall/Spring, 3 credit hours**
A study of principles that regulate the balance between the power of our government and the rights of individual citizens. Topics include specific constitutional amendments, searches and seizures, stops and arrests, the use of force in effecting arrests, the use of search and/or arrest warrants, self-incrimination, and stages of criminal proceedings in the U.S. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

**JUST 201**
**CRITICAL ISSUES IN CRIMINAL JUSTICE**
**Fall/Spring, 3 credit hours**
A study of the economic, political, ethical and emotional issues in community policing, courts and corrections. Some of the issues covered are AIDS and criminal justice services, emotional stress and coping skills needed in criminal justice employment, understanding prejudices and functioning in a culturally-diverse society, plea bargaining and the death penalty. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor. Writing intensive course.

**JUST 203**
**CRIMINAL INVESTIGATIONS**
**Fall/Spring, 3 credit hours**
This course is designed to teach those skills and knowledge necessary to conduct thorough preliminary investigations of crimes. Techniques used to investigate common categories of crimes will be discussed. A major emphasis in this course will be the preparation and execution of investigative plans as they relate to a team approach. Other skills will include interviewing, crime scene processing, and basic forensic examination of evidence. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

**JUST 205**
**CRIMINAL JUSTICE SEMINAR**
**Fall/Spring, 3 credit hours**
This course is designed to offer the student an opportunity to have a practical field experience with a criminal justice agency of his/her choice. The student will observe and participate in the daily functioning of an agency, share information with other students, and provide the participating agency with a valuable commodity – their time as volunteers. This course may take one of two forms, either a practicum or library research, as agreed upon by both the student and the instructor. The library research option allows the student to conduct research on a criminal justice agency to gain a more in-depth understanding of the function of said agency. Prerequisite: Sophomore level standing in the Criminal Justice, Criminal Investigations, or Law Enforcement Leadership program, or permission of instructor.

**JUST 207**
**POLICE SERVICES**
**Fall/Spring, 3 credit hours**
This course provides students with an overview of the services that police agencies provide to the community. Programs, practices and techniques are presented with an emphasis on lawful behavior, efficiency and effectiveness. The topics include, but are not limited to: the importance of effective communication, arrest procedures, patrol strategy, enforcement of vehicle and traffic laws, violent behavior, terrorism, juvenile crime, disaster preparedness, and ethical behavior. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

**JUST 209**
**LAW ENFORCEMENT COMMUNICATIONS**
**Fall/Spring, 3 credit hours**
This course prepares students to write clear, accurate and grammatically correct police reports, evidence and other laboratory documents, arrest and search warrants, depositions, statements, and other associated law enforcement documents. Methods of communication such as note taking and interviewing mechanics will be addressed. Court testimony is also addressed. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

**JUST 210**
**INTRODUCTION TO FORENSIC INVESTIGATION**
**Fall/Spring, 3 credit hours**
This course familiarizes the students with various forms of forensic techniques evidence. The laboratory component of the course provides the student an opportunity to process and analyze various forms of forensic evidence. Two hours lecture and two hours of laboratory per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

**JUST 211**
**DIAGNOSTIC EVALUATION OF THE OFFENDER**
**Fall/Spring, 3 credit hours**
This course introduces the student to diagnostic report writing with particular emphasis on the presentation investigation report conducted by probation/parole officers. Students are guided through a series of graduated steps toward production of a comprehensive assessment of offenders. Additionally, alternatives to incarceration and their applicable use(s) with a variety of offender populations will be explored. Students will also receive instruction in the preparing of criminal justice reports to include resume and cover letter construction. Three hours lecture per week. Prerequisite: Correctional Philosophy (JUST 105) or permission of instructor. Substitute for Law Enforcement Communications (JUST 209).

**JUST 213**
**PRE-EMPLOYMENT POLICE BASIC TRAINING**
**Spring, 6 credit hours**
This course is a collection of law enforcement subjects covering a wide variety of legal and procedural issues including: U.S. Constitutional Law, Use of Force, NY State Penal Law, Laws of Arrest, Sex Crimes, Civil Liabilities and Risk Management, and Domestic Violence Laws as well as other subject areas relative to modern policing. Prerequisite: Successful screening committee process that consists of the Board of Directors of the David Sullivan – St. Lawrence County Law Enforcement Academy.

**JUST 215**
**COMMUNITY-BASED CORRECTIONS**
**Spring, 3 credit hours**
This course is a study of the method and philosophy current in probation, parole, and other forms of community-based correctional services. The course material examines the role of the probation/parole officer, the community-based correctional programs director, and the community resources available to assist the probationer and parolee. This course presents the role of the probation/parole officer community corrections director as a human service agent as well as functional part of the criminal justice system. Three hours lecture per week. Limited to Criminal Justice, Criminal Investigation, and Criminal Justice: Law Enforcement Leadership students Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

**JUST 221**
**WOMEN AND CRIMINAL JUSTICE**
**Fall/Spring, 3 credit hours**
This course is a study of the female’s role in the criminal justice system. Topics include women working in the fields of law enforcement, corrections, and the court system. The course also covers female offenders, prisoners, victims and other related topics. Three hours lecture per week. Prerequisites: Students will have successfully completed 24 college credit hours, including an intensive writing course, or permission of instructor.
Course Descriptions: CRIMINAL JUSTICE

JUST 230
FUNDAMENTALS OF HOMELAND SECURITY
Fall/Spring, 3 credits

This course surveys the policies, practices, concepts and challenges confronting practitioners in Homeland Security with a focus on local entities. It provides an overview of threats to domestic security from terrorism, weapons of mass destruction, and other related risks and vulnerabilities. It examines the strategies and systems involved in protecting against and responding to threats. Discussion includes the managerial, political, legal and organizational issues related to crisis planning and response, the National Incident Management System impact on local practices, risk assessment and mitigation, communications and technology systems, medical and public health emergencies, and infrastructure protection. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) or permission of instructor.

JUST 255
ORGANIZED CRIME
Fall/Spring, 3 credit hours

This course provides students with a viable definition of organized crime, its historical overview from the 18th century to present, and the theories behind why people become involved in organized crime. Topics include the development of organized crime in the northeast and its westward migration; nontraditional organized crime, the business enterprises of organized crime; the effect of organized crime in labor and business, and the effects of the media. Three hours lecture per week. Prerequisites: Expository Writing (ENGL 101) or Oral & Written Expression (ENGL 102), and sophomore status, or permission of instructor.

JUST 300
FORENSIC PHOTOGRAPHY
Fall/Spring, 3 credit hours

This course provides an introduction to basic techniques, equipment, material and other aspects of crime scene photography including theory and practice of photographic image formation and recordings. The course utilizes "hands-on" instruction with an emphasis on crime scene photography, evidence photography, and surveillance photography. Prerequisites: Completion of 45 credit hours in a CJ major or permission of instructor.

JUST 301
LATENT PRINTS AND IMPRESSIONS
Fall/Spring, 3 credit hours

This course is an introduction to the biological development of fingerprints and the identification of the various fingerprint patterns. Course activities include physical and chemical development of fingerprints, crime scene processing techniques, the Henry System of fingerprint classification, and the comparison and identification of suspect fingerprints through manual and automated means. Two hours lecture, two hours laboratory per week. Prerequisites: Completion of 45 credit hours in a CJ major or permission of instructor.

JUST 303
INVESTIGATIVE INTERVIEWS
Fall/Spring, 3 credit hours

This course provides students with proven techniques which apply to conducting accusatory and non-accusatory interviews. Students develop skills related to preparing for an investigative interview with an emphasis on a proactive role. These skills include developing an interview strategy, interpreting physical and verbal cues, conducting a cognitive interview, developing admissions and confessions and recognizing a false confession. Course includes the most recent court rulings related to investigative interviews and admissibility of statements into court. Two hours lecture, two hours laboratory per week. Prerequisite: Completion of 45 credit hours in a CJ major or permission of instructor.

JUST 310
THE CAUSES OF CRIME
Fall/Spring, 3 credit hours

This course introduces various criminological theories to explain the cause of criminal behavior. Specific attention is placed on the primary theorists and the evolution of their corresponding theories and how they relate to current theories associated with biological, psychological, personality, intelligence and gender, and social disorder. Students learn to identify and apply criminological theories to the commission of specific criminal acts. The history of crime and punishment is reviewed, leading to the present day criminal justice system and competing criminological theories. Three hours lecture per week. Prerequisites: junior level status in Criminal Investigation or Criminal Justice: Law Enforcement Leadership Program or permission of instructor.

JUST 313
JUVENILE JUSTICE
Fall/Spring, 3 credit hours

This course provides an overview of the creation and evolution of juvenile justice in America. It examines the theories of delinquency, juvenile and police encounters, the adjudication process, status and non-delinquent offenders, detention of juveniles, and the rights of students. The evolution of the laws governing each aspect of juvenile justice is summarized. Prerequisite: Completion of 45 credit hours in a CJ major or permission of instructor.

JUST 314
ETHICS IN CRIMINAL JUSTICE
Fall/Spring, 3 credit hours

This course provides the student with theories and practices of ethics and professionalism in criminal justice. Areas of concentration will be law enforcement, courts, and corrections. This course requires students to exercise critical thinking skills to solve issues that test the morals and ethics of criminal justice professionals on a daily basis. Three hours lecture per week. Prerequisites: Completion of 45 credit hours or permission of instructor.

JUST 315
CONSTITUTIONAL LAW
Fall/Spring, 3 credit hours

This course is an examination of the principles and processes of the American judicial system, constitutional issues defining the relationship between law enforcement and the people, civil rights and liberties, the powers of Congress, federalism, and the role of the chief executive. Three hours lecture per week. Prerequisites: Introduction to Government (POLS 101) or Introduction to Criminal Justice (JUST 101), junior level status, or permission of instructor.

JUST 317
POLICE TACTICAL SEMINAR
Fall/Spring, 3 credit hours

This course acquaints students with the methods and techniques that are recognized by law enforcement professionals as necessary for success in a law enforcement career. Students learn mental as well as physical techniques that are needed to tactically handle situations. Issues of officer safety are identified and discussed. The focus is on analytical understanding of the tactical challenges faced by U.S. law enforcement officers. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) and junior level status or permission of instructor.

JUST 320
MEDIOCOLEGAL INVESTIGATIONS OF DEATH
Fall/Spring, 3 credit hours

This course provides an in-depth look into the medicolegal aspects of death investigation, including the manners, mechanisms, and causes of death, as well as the post mortem changes. The course also instructs the student on wound interpretation and the method to apply post mortem conditions to criminal investigations to confirm or refute evidence of wrongful deaths. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101), junior level status or permission of instructor.

JUST 321
MANAGING LAW ENFORCEMENT TRAINING
Spring, 3 credits

In this course, students examine issues relating to law enforcement training to include pre-service training, basic law enforcement training, field training, in-service training and specialized training. The role of state oversight (F.O.S.T. type) agencies is examined. The course presents a detailed template for training management concentrating on the impact training has on the agency. The course familiarizes students with adult learning concepts and Dr. Benjamin Bloom's taxonomy of cognitive learning. Central to the course is the understanding and appreciation of the variables associated with assessing the training needs and evaluation of training. Three hours lecture per week. Prerequisites: Introduction to Criminal Justice (JUST 101) and junior standing or permission of the instructor.
Course Descriptions: CRIMINAL JUSTICE

JUST 324
SERIAL MURDERERS AND THEIR VICTIMS
Fall/Spring, 3 credit hours
This course covers topics relating to serial murder and the various categories associated with the designation, including healthcare killers, sexual predators, male versus female murderers, team killers, and their respective victims. The student analyzes the issue of serial murder from a global perspective and ways law enforcement officials are attempting to profile and apprehend suspects. Three hours lecture per week. Prerequisites: junior level status in the Criminal Investigation or Criminal Justice: Law Enforcement Leadership program, or permission of instructor.

JUST 326
THREATS TO HOMELAND SECURITY
Fall/Spring, 3 credit hours
In this course students study the post cold war threats to the United States of America and the corresponding security policies. This course takes an “all-hazard” approach to homeland security and the current threats facing our nation. Topics addressed include natural hazards, man-made hazards, domestic and international terrorism, weapons of mass destruction, cyber terrorism and the emergency management planning model. This course explains the roles of various first responder agencies and the responsibility of the government to coordinate their response. Three hours lecture per week. Prerequisite: junior level status in Criminal Justice: Law Enforcement Leadership and/or Criminal Investigations, or permission of the instructor.

JUST 330
QUESTIONED DOCUMENTS
Fall/Spring, 3 credit hours
This course includes an examination of techniques used to determine the authenticity of documents through the analysis of handwriting, ink and paper sources, methods of mechanical printing, and recover of erasures, obliterations and alterations. Two hours lecture, two hours lab per week. Prerequisites: junior level status in the Criminal Investigation or Criminal Justice: Law Enforcement Leadership program, or permission of instructor.

JUST 333
MANAGING PATROL FUNCTIONS
Fall/Spring, 3 credits
This course provides a study of many aspects of police patrol, including goals and objectives of patrol, staffing and deployment, management styles of supervisors, and supervisory functions including scheduling and budgeting. Through group discussions, role playing activities and situational scenarios, students learn styles and various elements of the patrol function. Three hours lecture per week. Prerequisites: Introduction to Criminal Justice (JUST101) and 45 credit hours, or permission of instructor.

JUST 334
IMPLEMENTING & MANAGING COMMUNITY ORIENTED POLICING PROGRAMS
Fall, 3 credits
This course provides students with insight into the meaning of community policing and presents many dimensions necessary to consider when developing and designing a community policing strategy. Students understand the practical side of community policing, recognize the community considerations that need to exist and develop methods applicable to their unique environments. Students discuss community policing as it relates to problem solving, community engagement and organizational transformation. Students also discuss strategies associated in developing positive working relationships with local community leaders and establishing meaningful communications where there is a partnership and commonality of interests. Three hours lecture per week. Prerequisites/corequisites: Introduction to Criminal Justice (JUST 101) and junior level status or instructor’s approval.

JUST 335
CRIMINAL JUSTICE AGENCY MANAGEMENT
Fall/Spring, 3 credits
Description, analysis, solution, and synthesis of contemporary management problems in a criminal justice organization; presentation and exemplary implementation of management concepts significant to criminal justice organizations; review of case studies for management problem recognition; the study of operational systems; analysis of the role of supervisors and managers. Three hours lecture per week. Prerequisites/corequisites: junior level status in the Criminal Investigation or Criminal Justice: Law Enforcement Leadership program, or permission of instructor.

JUST 340
LEGAL ISSUES OF THE PENAL SYSTEMS
Fall/Spring, 3 credit hours
Students examine problems and issues faced by incarcerated persons within the American penal system. Course topics include: history of confinement as punishment, issues of visitation, religion, legal assistance, prison discipline, rehabilitation, and the civil and criminal liabilities of corrections officials. Three hours lecture per week. Prerequisites: junior level status in the Criminal Investigation or Criminal Justice: Law Enforcement Leadership program, or permission of instructor.

JUST 341
CORRECTIONS MANAGEMENT AND ADMINISTRATION
Fall/Spring, 3 credit hours
This course examines the concepts, practices and theoretical bases of the management and administration of correctional facilities. Students will examine the issues of facility management, inmate management, leadership and governance of correctional facilities, personnel management and policy formation, and the challenges facing the future of American correctional systems. Three hours lecture per week. Prerequisite: Correctional Philosophy (JUST 105) or permission of the instructor.

JUST 344
CIVIL LIABILITY FOR THE CRIMINAL JUSTICE ADMINISTRATOR
Fall/Spring, 3 credit hours
In this course students examine civil liability issues at the local, state, and federal law levels. Students develop better awareness of the liability risks relative to criminal justice service by learning proactive protocols that may minimize personal and organizational liability risks. Three hours lecture per week. Prerequisites: Introduction to Criminal Justice (JUST 101) or permission of the instructor.

JUST 345
COMPARATIVE JUSTICE SYSTEMS
Fall/Spring, 3 credit hours
This course is an examination of crime as a world problem, consideration of the different ways justice systems are organized, comparison of the rights of offenders and an analysis of substantive and procedural law in different legal traditions, and an examination of multi-national efforts to address specific trans-boundary criminal activity. Similarities and dissimilarities between urban and rural criminal justice are examined in the context of culture and social structure. Three hours lecture per week. Prerequisites: Introduction to Government (POLS 101) or Introduction to Criminal Justice (JUST 101), junior level status, or permission of instructor.

JUST 350
VICTIMIZATION
Fall/Spring, 3 credit hours
This course includes a study of the various issues involved in victimization, including theories, intimate versus stranger violence, family victimization, child abuse and neglect, workplace violence, school violence, elder abuse, and the criminal justice response to victimization. Three hours lecture per week. Prerequisites: Introduction to Criminal Justice (JUST 101), junior level status, or permission of instructor.

JUST 353
CRIMINAL JUSTICE TECHNOLOGY
Fall/Spring, 3 credit hours
This course provides students with a survey of criminal justice technologies and their uses within the criminal justice system. In addition to providing significant technical information about technology (such as computer operations, wireless communications and geographic information systems), this course emphasizes the challenges involved in the use of technology such as implementation and interoperability. Moreover, through this course, the study of technology is integrated into wider criminal justice themes including: ethical and legal implications of technology; technology’s place in the community based policing model; and, how technology impacts traditional criminal justice policy-making. Three hours lecture per week. Prerequisite: Completion of 45 credit hours in a CJ major or permission of
Security against the compelling need to preserve and extend fundamental American civil liberties. It examines the USA PATRIOT Act and its effectiveness in preventing and responding to the threat of terrorism as well as their role in shaping the development of Homeland Security agencies, policies, strategies, and infrastructure. Three hours lecture per week. Prerequisite: Introduction to Criminal Justice (JUST 101) and completion of 45 credit hours in a CJ major or permission of instructor.

JUST 406 CRIME SCENE INVESTIGATION
Fall, 3 credit hours

This course emphasizes crime scene processing and investigation including crime scene search principles, photography, descriptive writing, recognition of physical evidence, methods for collection and preservation of evidence, sketching techniques and methods of transportation or submission of evidence for laboratory analysis. Two hours lecture and two hours laboratory per week. Prerequisites: Forensic Photography (JUST 300), Latent Print and Impressions (JUST 301), and Investigative Interviews (JUST 303), or permission of instructor.

JUST 408 THE INVESTIGATION OF DEATH
Fall, 3 credit hours

This course is a comprehensive study of death investigations including the first responding officer's duties, the investigation at the scene, detectives' duties, case management, manners and modes of death, and identifying suspects. The course also presents recent statistics and trends related to murder. Two hours lecture and two hours laboratory per week. Prerequisites: Forensic Photography (JUST 300), Latent Print and Impressions (JUST 301), and Investigative Interviews (JUST 303), or permission of instructor.

JUST 410 CLANDESTINE GRAVES
Fall/Spring, 3 credit hours

This course presents students with the theories and practices of locating clandestine graves. Lectures address grave assessments, the use of experts, evidence recognition and preservation, and case studies. Labs will include grave location, excavation, and recovery techniques. Two hours lecture and two hours laboratory per week. Prerequisites: Forensic Photography (JUST 300), Latent Print and Impressions (JUST 301), and Investigative Interviews (JUST 303), or permission of instructor.

JUST 415 EMERGING ISSUES IN HOMELAND SECURITY
Fall/Spring, 3 credit hours

This course explores the evolving nature of the Homeland Security industry. It examines a number of contemporary issues and their immediate and long-term impact on Homeland Security policies and practices. The roles of the media, law, the Constitution, governmental and corporate entities, and politics at the federal, state and local levels in determining and shaping Homeland Security policy and practice are considered. Three hours lecture per week. Prerequisite: Fundamentals of Homeland Security (JUST 230) and completion of 45 credit hours in a CJ major, or permission of instructor.

JUST 420 THE CORPORATE ROLE IN HOMELAND SECURITY
Fall/Spring, 3 credit hours

This course explores the role of private sector entities in Homeland Security and relationships with governmental Homeland Security agencies. It examines the specific roles, responsibilities, and vulnerabilities of corporate entities in protecting the infrastructure as well as in preventing, deterring, and responding to events. Institutions such as utility providers, the private security industry, mental health systems, hospitals and biomedical facilities, companies with chemical and hazardous materials inventories, shipping and transportation companies, airlines and airports, the financial services industry, and information technology and telecommunications companies are considered. Three hours lecture per week. Prerequisite: Fundamentals of Homeland Security (JUST 230) and completion of 45 credit hours in a CJ major, or permission of instructor.

JUST 425 LAW ENFORCEMENT INTELLIGENCE SYSTEMS IN HOMELAND SECURITY
Fall/Spring, 3 credit hours

This course examines the concepts and practices involved in the process of collecting and analyzing intelligence as well as the influence of intelligence in shaping homeland security decision-making at the state and local levels. It examines the intelligence gathering and analysis capabilities of state and local criminal justice agencies and the use of intelligence processes to support homeland security policy formulation. Students in this course will develop an understanding of intelligence tradecraft and the analytical and research skills used in intelligence work, as well as an appreciation for the ethical, constitutional, and civil liberties issues involved. Specific topics considered include open source intelligence, assessing the reliability and validity of information, intelligence sharing, covert and counterintelligence operations. Three hours lecture per week. Prerequisite: Fundamentals of Homeland Security (JUST 230) and completion of 45 credit hours in a CJ major, or permission of instructor.

JUST 429 INTRODUCTION TO CULMINATING EXPERIENCE SEMINAR
Fall/Spring, 1 credit hour

This course is the precursor to the senior culminating experience for seniors in either the Criminal Investigations or Criminal Justice: Law Enforcement Leadership Bachelor's program. Students meet on a weekly basis with faculty to discuss resume preparation, job interviewing, locating and establishing internships, and internship requirements. This course is a prerequisite to JUST 430, Culminating Experience in Criminal Justice. One hour lecture.
Course Descriptions: CRIMINAL JUSTICE, LEGAL STUDIES

Fall/Spring, 1-4 credit hours

JUST 430
CULMINATING EXPERIENCE IN CRIMINAL JUSTICE
Fall/Spring, 3-15 credit hours
This internship is an academic program which integrates classroom work and practical experience with cooperating law enforcement or law enforcement related agencies. The internship allows seniors the opportunity to apply classroom learning in a related law enforcement environment. It is a structured field experience in which an intern acquires and applies knowledge and skills, while working in a responsible role. Working with a supervisor, the student will perform prescribed work within an administrative or operational setting. The internship will be tailored to the individual student's career interests and the needs of the supervising organization. Internship assignments and activities may include, but not be limited to, information gathering, research, data analysis, planning, organization, implementation, evaluation, and other tasks and responsibilities deemed necessary. 40 hours per week per credit hour. Prerequisite: All required Criminal Investigation or Criminal Justice: Law Enforcement Leadership curriculum courses or the permission of the department chair.

JUST 449
CURRENT ISSUES IN LAW ENFORCEMENT
Fall Semester, 3 credit hours
This course identifies current and emerging issues that may have an impact on a police manager. Students will integrate concepts such as, ethical conduct, morality, violations of civil liberties, political correctness and corruption in law enforcement. Current U.S. Supreme Court decision and opinions, federal and state mandates affecting agency policies and procedures, and community activism and involvement will be used to help students evaluate their decisions. Prerequisites/corequisites: Introduction to Criminal Justice (JUST 101) and junior level status or permission of instructor.

JUST 450
TRIAL COURT AND RULES OF EVIDENCE
Fall/Spring, 3 credit hours
This course provides students with a basic understanding of the legal mechanisms through which society resolves its disputes. Students will learn the details of trial and appellate process and procedure. Students will be provided the necessary tools to develop the confidence, ability, and control when presenting courtroom testimony. Three hours lecture per week. Prerequisite: senior year status in CI, LEL or LEST programs only.

JUST 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN CRIMINAL JUSTICE
Fall/Spring, 1-4 credit hours
Special Topics in Criminal Justice will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available.

LEST 101
THE AMERICAN LEGAL SYSTEM
Fall/Spring, 3 credit hours
A general overview of the American legal system, including federal and state court structures, the roles and responsibilities of various participants in the legal process, and the progress of civil and criminal cases through the courts. Three hours lecture per week.

LEST 310
LEGAL RESEARCH
Spring, 3 credit hours
An overview of the sources of law in the American system and specific instruction in finding and analyzing the sources needed to answer legal questions, including case law, statutes, administrative law, and secondary sources. Three hours lecture per week. Prerequisites: Successful completion of Expository Writing (ENGL 101) or Oral & Written Expression (ENGL 102), and Introduction to Information Technology (CITA 110) or its equivalent, or permission of instructor.

LEST 330
LEGAL WRITING
Spring, 3 credit hours
Instruction covers writing documents commonly used in a legal setting and in analyzing and citing the sources needed to answer legal questions, including case law, statutes, administrative law, and secondary sources. Three hours lecture per week. Prerequisites: Business Communications (BSAD 200), Legal Research (LEST 310), or permission of instructor. This is a writing intensive course.

LEST 350
LITIGATION
Fall/Spring, 3 credit hours
Introduces students to substantive and procedural requirements for and philosophical underpinnings of civil litigation in state and federal courts, at both the trial and appellate levels. Three hours lecture per week. Prerequisites: The American Legal System (LEST 101), Business Law II (BSAD 202), or permission of instructor.

LEST 360
FAMILY LAW
Fall/Spring, 3 credit hours
Students will explore the core procedural and substantive concepts of family law, including legal aspects of adult family relationships and the law relating to the lives of children. Students will learn how family law principles are applied in a legal practice setting. Three lecture hours per week. Prerequisites: The American Legal System (LEST 101), Business Law II (BSAD 202), or permission of instructor.

LEST 370
REAL PROPERTY
Fall/Spring, 3 credit hours
Students will examine the law of real property as it relates to real estate transactions, landlord tenant relationships, and real property disputes. Students will learn how real estate transactions are completed in a legal practice setting. Three hours of lecture per week. Prerequisites: The American Legal System (LEST 101), Business Law II (BSAD 202), or permission of instructor.

LEST 375
IMMIGRATION LAW AND BORDER CONTROL
Fall/Spring, 3 credit hours
Students will understand the historical immigration policies and controls as they evolved in the 19th and 20th centuries and then changed after the World Trade Center bombings. The policy changes and their effects will be analyzed to allow students to project the effects of future world events and policy changes. The enforcement methods and means will be studied as will the regulatory and statutory requirements for temporary visits and immigration with an emphasis on practical application of common processes. Three hours lecture per week. Prerequisite: junior level status or permission of the instructor.

LEST 380
WILLS, TRUSTS, & ESTATES
Fall/Spring, 3 credit hours
Students explore the planning and preparation of asset transfers pre-mortem and post-mortem as well as lifetime planning tools commonly associated with trusts and estates. Students learn how attorneys assist their clients to achieve their property transfer and lifetime personal planning goals through preparing wills, trusts and related documents and examine the tax considerations involved in the planning process. Students study the probate process in depth with an emphasis on the client interview process and preparation of legal documents. Three hours of lecture per week. Prerequisites: Legal Research (LEST 310) or junior status and approval of the instructor.

LEST 429
ORIENTATION TO CULMINATING EXPERIENCE IN LEGAL STUDIES
Fall/Spring, 1 credit hour
This course is intended as the precursor to the senior culminating experience in the Legal Studies (LEST) program. Seniors will meet with faculty on a weekly basis to discuss resume preparation, job interviewing techniques, on-the-job training, identifying and securing internships, internship requirements, and performance assessment/evaluation. This course is a prerequisite to Legal Studies Internship (LEST 480). Prerequisite: senior level status in the Legal Studies program or permission of instructor.

LEST 449
ADVANCED LEGAL WRITING
Spring, 3 credit hours
Builds on skills acquired in Legal Writing to
prepare students for writing more complex types of legal documents. Students will analyze, cite, and find the sources needed to answer legal questions including case law, statutes, administrative law, and secondary sources. Three hours lecture per week. Prerequisite: Legal Writing (LEST 330) or permission of instructor.

LEST 480
LEGAL STUDIES INTERNSHIP
Fall/Spring, 15 credit hours
The Legal Studies Internship integrates classroom work and practical experience with cooperating businesses or agencies. The Internship allows seniors the opportunity to apply classroom learning in a legal or law enforcement setting. It is a structured field experience in which an intern, under the guidance of a supervisor, acquires and applies knowledge and skills while working in a responsible role. The internship will be tailored to the individual student’s career interests and the needs of the supervising organization. Internship assignments and activities may include, but not be limited to, information gathering, research, drafting of documents, office management, and other tasks and responsibilities deemed necessary. Prerequisites: senior level status in Legal Studies and all required courses must be completed before participating in the Internship. Students need permission of the program director or dean.

LEST 485
LEGAL STUDIES SENIOR PROJECT
Fall/Spring, 3-15 credit hours
This course is an alternative to the Legal Studies Internship. It is designed for students who are unable to complete a 15-credit Internship. Students will complete a senior research project specifically addressing issues under the umbrella of legal studies. Under the guidance of a faculty mentor, the student will submit a research proposal, conduct research, prepare a thesis style report, and present a defense to a thesis committee. 37.5 project hours per credit. Prerequisites: Senior level status in Legal Studies and all required courses must be completed before participating in the Internship. Students need permission of the program director.

LPNC 100
DRUG DOSAGE CALCULATIONS AND PHARMACOLOGY
Fall, 3 credit hours
This course introduces the principles of drug dosage calculations and pharmacology. Various drug classifications and their effects on the body are reviewed. Various dosage forms, oral, parenteral, and inhalation, are examined. Emphasis is placed on the calculation of the dosage in drug administration. Three hours lecture per week. Prerequisite: Beginning Algebra (MATH 100) or high school equivalent or permission of instructor. Practical Nursing Certificate Majors only.

LPNC 101
PRACTICAL NURSING FUNDAMENTALS
Fall, 8 credit hours
This course examines the evolution of nursing including current trends, and introduces the health care delivery system to the student. Communication techniques, including documentation, are explored. Legal and ethical considerations and the role of the LPN within the health care delivery system are examined. Students will be encouraged to utilize the nursing process and critical thinking in providing nursing care to clients who are at various points on the health care continuum. In lab students will develop skills fundamental to the practice of nursing. Lab and theoretical content will be applied in the long-term care setting. A final grade of “C” or better is required to progress to the LPNC 102 and 103. Three hours lecture, three hours laboratory, twelve hours clinical per week. Corequisites: Human Anatomy and Physiology I (BIOL 217), Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) or permission of instructor. Practical Nursing Certificate Majors only.

LPNC 102
PRACTICAL NURSING: SPECIALTY POPULATIONS
Spring, 3 credit hours
This course introduces students to assessment and nursing care concepts focusing on maternity, newborn, pediatric, and mentally ill clients. The nursing process and critical thinking skills are utilized to adapt nursing concepts and procedures to these special populations. Three hours lecture per week. Prerequisites: Drug Dosage Calculations and Pharmacology (LPNC 100), Practical Nursing Fundamentals (LPNC 101); corequisite: Practical Nursing: Medical-Surgical Nursing (LPNC 103); or permission of instructor. Practical Nursing Certificate Majors only.

LPNC 103
PRACTICAL NURSING: MEDICAL-SURGICAL NURSING
Spring, 8 credit hours
Students will utilize critical thinking and the nursing process in learning about fundamental disease processes and the LPN’s role in prevention of illness, treatment of disease, and the restoration of health in the adult client. Concepts related to safety, emotional support, communication, client teaching, and pharmacology are integrated throughout the course. Students utilize the nursing laboratory to enhance their psychomotor and critical thinking skills in practicing advanced nursing skills. Clinical experiences provide opportunities for students to apply theory/lab in the medical-surgical units of acute care hospitals. Three hours lecture, three hours laboratory, twelve hours clinical per week. Prerequisite: PN Fundamentals (LPNC 101); corequisite: Practical Nursing: Specialty Populations (LPNC 102); or permission of instructor. Practical Nursing Certificate Majors only.

MATH 099
FUNDAMENTALS OF APPLIED MATHEMATICS
Fall, 3 imputed credit hours
This course connects mathematical concepts and procedures to real-life applications relevant to a variety of technical trade fields. Topics include: a review of fundamental arithmetic concepts, order of operations, measurement and conversions, ratio and proportion, signed numbers, exponents and radicals, introduction to algebra. Three hours lecture per week. Prerequisites: For students with little or no algebraic background or for those receiving less than 75 on the New York State Math A or Integrated Algebra Regents examination or permission of instructor.

MATH 100
BEGINNING ALGEBRA
Fall/Spring, 3 equivalent credits
This course is designed to prepare the student for Intermediate Algebra (MATH106). It assumes a limited algebra background at the secondary level. Topics include: a review of arithmetic operations, signed numbers, exponents, basic geometry concepts (such as angle measure, area and volume formulas), operations with polynomials, solving linear equations, introduction to graphing, and elementary word problems. Three hours lecture per week. Prerequisites: For students with little or no algebraic background or for those receiving less than 75 on the New York State Math A or Integrated Algebra Regents or equivalent examination, or permission of instructor.

MATH 101
APPLIED COLLEGE MATHEMATICS
Spring, 3 credit hours
This course is designed to prepare students for success in technical and pre-engineering technology programs. It assumes an algebraic background at an introductory level. The course will connect mathematical concepts and procedures to real-life applications relevant to a variety of technical trade fields. Topics include: an introduction to algebra, practical plane geometry, solid figures, angle measurement in degrees and radians, trigonometric ratios, law of sines and cosines, solving systems of equations graphically and algebraically, and solving quadratic equations. Applications using algebra concepts are stressed in this course. Three hours lecture per week. Prerequisite: Fundamentals of Applied Mathematics (MATH 099) with a grade of C or better, or for students who have taken 1 NYS high school regents math course or equivalent examination with a grade of 75 or above on the New York State Regents mathematics examination, or permission of instructor.

MATH 106
INTERMEDIATE ALGEBRA
Fall/Spring, 3 credit hours
This course reviews and builds on the basic, fundamental concepts of algebra, which are required in many other courses and areas of study. Topics include: a review of fundamental concepts, first degree equations and inequalities, graphing and systems of equations, rational expressions, factoring, exponents and radicals, quadratic equations. Three hours lecture per week. Prerequisite: Beginning Algebra (MATH 100) with a grade of C or better, or for students who have taken 1 NYS high school regents math course or equivalent examination with a grade of 75 or above on the New York State
Course Descriptions: MATHEMATICS

Regents mathematics examination, or permission of instructor.

MATH 111
SURVEY OF MATHEMATICS
Fall/Spring, 3 credit hours GER 1
A study of various mathematical topics including an introduction to quantitative reasoning skills, truth table logic, sets, probability, geometry or matrices and linear programming (dependent on demand). This course is designed for non-technical oriented students. It is appropriate for students in liberal arts. Three hour lecture per week. Prerequisite: Intermediate Algebra (MATH 106) with a grade of C or better, or for students who have taken 2 NYS high school regents math courses with a grade of 75 or above on the second New York State Regents mathematics examination, or permission of instructor.

MATH 115
MATHEMATICS FOR ELEMENTARY TEACHERS I
Fall/Spring, 3 credit hours GER 1
The study of the development, meaning, and representations of numeration systems, operations on whole numbers, number theory and the real number system. The focus of the course will be on mathematical representations for K-8 topics via problem solving. This course is only open to students enrolled in the elementary education transfer program. The majority of the course will be activity-based (exploration of topics through problem solving activities). Three hours lecture per week. Prerequisite: Intermediate Algebra (MATH 106) with a grade of C or better, or for students who have taken 2 NYS high school regents math courses with a grade of 75 or above on the second New York State Regents mathematics examination, or permission of instructor.

MATH 116
MATHEMATICS FOR ELEMENTARY TEACHERS II
Fall/Spring, 3 credit hours
The study of the development, meaning, and representations of statistics, patterns and functions, concepts of geometry, and measurement of two- and three-dimensional figures. The focus of the course will be on the construction of mathematical representations for K-8 topics via problem solving. This course is only open to students enrolled in the elementary education transfer program. The majority of the course will be activity-based (exploration of topics through problem solving activities). Three hours lecture per week. Prerequisite: Mathematics for Elementary Teachers I (MATH 115) with a grade of C or better, or permission of instructor.

MATH 121
COLLEGE ALGEBRA
Fall/Spring, 4 credit hours GER 1
This course provides basic algebraic concepts and an introduction to trigonometric and logarithmic functions. Emphasis is placed on equations and inequalities; polynomials, rational, exponential and logarithmic functions; and graphing and data analysis including modeling and linear regression. Additional topics include complex numbers; radical functions; right triangle trigonometry; systems of equations; and elementary transcendental functions. Four hours lecture per week. Prerequisite: Intermediate Algebra (MATH 106) with a grade of C or better, or for students who have taken 2 NYS high school regents math courses with a grade of 75 or above on the second New York State Regents mathematics examination, or permission of instructor. Cannot be taken for credit by students with credit in Pre-Calculus Algebra (MATH 123).

MATH 123
PRE-CALCULUS ALGEBRA
Spring/Fall, 4 credit hours GER 1
This course provides an intense study of topics which are fundamental to the study of Calculus. Emphasis is placed on functions and their graphs with special attention to polynomial, rational, exponential, logarithmic and trigonometric functions, and analytic trigonometry. Additional topics include complex numbers; systems of equations and inequalities; trigonometric identities; and trigonometric applications. Four hours lecture per week. Prerequisite: Intermediate Algebra (MATH 106) with a grade of C or better, or for students who have taken 3 NYS high school regents math courses with a grade of 75 or above on the third New York State Regents mathematics examination, or permission of instructor. Cannot be taken for credit by students with credit in College Algebra (MATH 121).

MATH 131
COLLEGE TRIGONOMETRY
Spring, 3 credit hours GER 1
This course is designed for those students who lack the trigonometry skills needed to perform successfully in Calculus I. Topics include: angle measurement; right triangle trigonometry; trigonometric identities; trigonometric equations; graphs of trigonometric functions; inverse trigonometric functions; oblique triangles; and exponential and logarithmic functions. Three hours lecture per week. Prerequisite: College Algebra (MATH 121) with a grade of C or better, or for students who have taken 3 NYS high school regents math courses with a grade of 75 or above on the third New York State Regents mathematics examination, or permission of instructor.

MATH 135
TECHNICAL MATH I
Fall, 4 credit hours GER 1
This course is the first of a two-semester sequence of intermediate algebra and trigonometry with technical applications. Topics include: Review of the graphs of the sine and cosine functions, review of complex numbers and their applications, exponents and radicals, exponential and logarithmic functions, ratio, proportion and variation, oblique triangles, inequalities, introduction to statistics and an intuitive approach to calculus. The TI-84 Plus graphing calculator in conjunction with the laptop may be used throughout the course. Four hours lecture per week. Prerequisite: Applied College Mathematics (MATH 103) with a grade of C or better, or for students who have taken 2 NYS high school regents math courses with a grade of 75 or above on the second New York State Regents mathematics examination, or permission of instructor, or individuals enrolled in the Verizon Next Step program.

MATH 136
TECHNICAL MATH II
Fall/Spring, 4 credit hours
This course is the second of a two-semester sequence of intermediate algebra and trigonometry with technical applications. Topics include: Review of the graphs of the sine and cosine function, review of complex numbers and their applications, exponents and radicals, exponential and logarithmic functions, ratio, proportion and variation, oblique triangles, inequalities, introduction to statistics and an intuitive approach to calculus. The TI-84 Plus graphing calculator in conjunction with the laptop may be used throughout the course. Four hours lecture per week. Prerequisites/corequisites: Technical Math I (MATH 135) with a grade of C or better, or permission of instructor.

MATH 141
STATISTICS
Fall/Spring, 3 credit hours GER 1
This course is an introduction to the standard methods of descriptive statistics, probability, and inferential statistics. Topics include: organization and presentation of data, descriptive measures of data, linear correlation and regression analysis, probability, probability distributions including binomial distributions, normal distributions, Student's t-distributions, and Chi-square distributions, estimation of parameters and hypothesis testing. Three hours lecture per week. Prerequisite: College Algebra (MATH 121), Pre-Calculus Algebra (MATH 123), Survey of Mathematics (MATH 116), or Mathematics for Elementary Teachers II (MATH 116) with a grade of C or better, or for students who have taken 3 NYS high school regents math courses with a grade of 75 or above on the third New York State Regents mathematics examination, or permission of instructor.

MATH 150
BUSINESS CALCULUS
Fall/Spring, 4 credit hours GER 1
This course is an intuitive introduction to the Calculus. Topics include: Review of functions; analytical geometry of the line, properties of limits; the derivative with applications; transcendental functions; and integrals with applications. Selected additional topics will be offered, as time permits, at the discretion of instructor. Four hours lecture per week. Prerequisite: College Algebra (MATH 121) or Pre-Calculus Algebra (MATH 123) with a grade of C or better, or for students who have taken 3 NYS high school regents math courses with a grade of 75 or above on the third New York State Regents mathematics examination, or permission of instructor.
MATH 161  
CALCULUS I  
Fall, 4 credit hours  
GER I  
This course is the first of a three-semester sequence of Calculus courses developed for students in Engineering Science who expect to transfer to a four-year engineering college upon completion of the program. Other qualified students may also take this sequence. Topics include: quick review of functions and graphs, limit and continuity; the derivative and its properties, differentiation of algebraic and transcendental functions, curve sketching; related rates, applied extrema problems; other applications of differentiation, numerical methods, and antidifferentiation. Four hours lecture per week. Prerequisite: College Algebra (MATH 121), Pre-Calculus Algebra (MATH 123) or College Trigonometry (MATH 131) with a grade of C or better, or for students who have taken 3 NYS high school regents math courses with a grade of 75 or above on the third New York State Regents mathematics examination, or permission of instructor.

MATH 162  
CALCULUS II  
Spring, 4 credit hours  
This course is the second of a three-semester sequence in Calculus which has been designed for students in Engineering Science. Other qualified students may also take this course. Topics include: differentials; definite integrals and their applications; integration of exponential, logarithmic, trigonometric, and inverse trigonometric functions; techniques of integration; series; parametric equations and polar coordinates. Four hours lecture per week. Prerequisite: Calculus I (MATH 161) with a grade of C or better recommended or permission of instructor.

MATH 291-295, 391-395, or 491-495  

MATH 361  
LINEAR ALGEBRA  
Spring/Fall, 3 credit hours  
This course is an introduction to the theory of finite dimensional abstract vector spaces and linear transformations. Topics include: systems of linear equations, matrices, matrix algebra, determinants and inverses, linear combinations and linear independence, abstract vector spaces, change of basis and coordinates, inner product spaces, orthonormal bases. We also consider linear transformations, isomorphisms, matrix representation of linear maps, eigenvalues and eigenvectors, diagonalization and similarity. The applications include computer graphics, Markov chains, chemistry, linear regression, network flow, electrical circuits, and differential equations. Three hours of lecture per week. Prerequisites: Calculus II (MATH 162) with a grade of C or better or permission of the instructor.

MATH 351  
DISCRETE MATHEMATICS  
Fall/Spring, 3 credit hours  
This course studies the basic tools and techniques of discrete mathematics and their applications. The topics include sets, logic, proofs, functions and relations, algorithms, elementary number theory, counting methods, discrete probability, pigeonhole principle, recurrence relations, introduction to graph theory and Boolean algebras. Three hours of lecture per week. Prerequisites: College Algebra (MATH 121) or Pre-Calculus Algebra (MATH 123) with a grade of C or better, or permission of instructor.

MATH 364  
DIFFERENTIAL EQUATIONS  
Spring, 3 credit hours  
A course in Ordinary Differential Equations, which is required of the students in the Engineering Science curriculum. It may be taken by qualified students in other curriculums who plan to transfer Mathematics credits to four-year institutions. Topics include: first-order differential equations, higher-order differential equations with constant and variable coefficients, applications of first and second order linear equations, Laplace transforms, systems of linear differential equations, and numerical methods for ordinary differential equations (optional). Three hours lecture per week. Prerequisite: Calculus II (MATH 162) with a grade of C or better or permission of instructor.

MATH 371  
GRAPH THEORY  
Spring/Fall, 3 credit hours  
This course is an introduction to the basic concepts of graph theory. Common classes of graphs such as paths, trees and cycles are analyzed. We also consider connectivity, traversability, and conditions for planarity. Applications will be given to chemistry, engineering and computer science. Map colorings (including the famous four color theorem) will also be considered. Three hours of lecture per week. Prerequisites: Calculus II (MATH 162) with a grade of C or better or permission of the instructor.

MATH 291-295, 391-395, OR 491-495  
SPECIAL TOPICS IN MATHEMATICS  
Fall/Spring, 1-4 credit hours  
Individual courses of instruction of variable credit (1-4 credits) may be offered each semester. These courses are designed to expand on topics in specific areas of mathematics.

MECH 103  
INTRO TO HVAC-R  
Fall, 3 credit hours  
This course is an introduction to heating and air conditioning systems used to achieve a comfortable indoor environment. It includes a straightforward study of heating and cooling loads and the combustion process of various fuels. Warm air, hydronic, and radiant heating systems and related controls are studied to provide technicians the knowledge to install and repair furnaces and ancillary systems. The topics of proper ventilation and refrigeration requirement of a building is developed through ASHRAE standards. Two hours lecture, two hours laboratory per week.

MECH 112  
ADVANCED COMPUTER DRAFTING  
Spring, 3 credit hours  
A continuation of Computer Drafting (MECH 111) wherein major emphasis is placed on the topics of dimensioning, tolerancing, gears, keys and key seats, assembly drawings, and detail drawings. Computer-aided design, systems, concepts, along with standards, will be emphasized. One hour lecture, four hours laboratory per week. Prerequisite: Intro to Computer Drafting (SOET 116) or permission of instructor.

MECH 121  
MANUFACTURING PROCESSES I  
Fall/Spring, 3 credit hours  
This course provides an overview of material removal, change in form, change in condition, and heat treatment processes. The student begins with a fundamental understanding of machine tools theory and practice. Instruction includes precision layout and measurement, lathe operations and tooling, milling operations and tooling, drills, reamers, and drilling machines. Instruction involves the selection and calculation of proper cutting speeds and feeds for processes involving different materials. Instruction also includes an investigation to the variety of casting processes, products produced through each process and common defects found. Students further investigate material properties and how change can occur through processing and heat treatments. The laboratory provides the opportunity to apply the material from lecture through the hands on operation of the tooling and equipment. Two hours lecture, three hours laboratory per week.
MECH 128  
ELECTROMECHANICAL TECHNOLOGY  
Spring, 3 credit hours  
This course provides the knowledge base needed to understand the principles, concepts, and applications of electro-mechanics. It presents problem solving techniques that are critical for troubleshooting situations. Topics covered include: Nature of motion, simple and compound machines, torque, power transmission, motion devices, electric circuits, electromagnetic circuits and devices, and maintenance procedure for electrical and mechanical machines. Two hours lecture and two hours laboratory per week. Prerequisites: College Algebra (MATH 121), College Physics I and Lab (PHYS 121/125).

MECH 220  
ENGINEERING MATERIALS  
Spring, 3 credit hours  
A study of the wide spectrum of materials used in manufacturing of discrete parts and machines. Material structure, characteristics, mechanical properties and applications will be stressed for ferrous and non-ferrous metals, plastics, and composites. Two hours lecture, three hour laboratory per week. Prerequisites: Pre Calculus Algebra (MATH 123) and College Physics I (PHYS 121) or permission of instructor.

MECH 222  
MANUFACTURING PROCESSES II  
Spring, 2 credit hours  
A continuation of Manufacturing Processes I. Includes forging, sawing and cutting processes, grinding operations, cutting tools and fluids, powder metallurgy and non-traditional machining processes. Process planning and determining the equipment to produce parts will lead to a better understanding of different manufacturing processes. Students will learn the fundamentals required to setup, operate and program CNC lathes and milling machines. A major emphasis is placed on the term project that requires each student to research a manufacturing process for the purpose of giving an oral presentation to the class explaining the process. The overall project requires each student submit an outline of their presentation, present their material to the class and submit a formal report to the instructor. One hour lecture, two hours laboratory per week. Prerequisite: Manufacturing Processes I (MECH 121) or permission of instructor.

MECH 223  
INTRODUCTION TO CNC  
Fall, 3 credit hours  
A course designed to introduce students to the capabilities of CNC machine tools used in industry, to teach students the fundamentals in programming CNC lathes and milling machines, to provide students the opportunity to set up and operate CNC equipment and to experience the use of CAD/CAM technology. Two hours lecture, three hours laboratory per week. Prerequisite: Manufacturing Processes I (MECH 121) or permission of instructor.

MECH 225  
INTRODUCTION TO THERMODYNAMICS  
Spring, 3 credit hours  
This course will investigate thermal power and its applications using the first and second laws of thermodynamics. The properties of liquids and gases will be considered in their current and emerging applications to energy production. The fuel sources will be discussed for their energy input and output heat values. The efficiency of all energy applications will be explored while evaluating the theory of heat transfer. Applications of the Rankin, Otto, Brayton, and refrigeration cycles will be used in evaluating the energy production of thermal systems. Three hours of lecture per week. Prerequisite: College Physics II (PHYS 122) and Calculus I (MATH 161), or permission of instructor.

MECH 232  
MACHINE DESIGN  
Spring, 4 credit hours  
Design of machine components subjected to static, dynamic and fluctuating loads. Theory includes design of shafts, v-belt and flat belt drives, gear systems and roller chain mechanical transmissions; gears and springs. Laboratory work involves the design of components of a machine design term project. Three hours lecture, two hours laboratory per week. Prerequisites: Machine Design II (MECH 232) or permission of instructor.

MECH 241  
FLUID MECHANICS  
Spring, 3 credit hours  
This course develops a basic knowledge of fluids under static and dynamic applications. Principles of fluid statics, fluid kinematics, fluid kinetics, and continuity theorem will explore applications in the mechanical industry. Flow rate, pipe sizing and minor losses in piping systems are addressed. Compressible flow and gas dynamics are introduced. Three hours lecture per week.

MECH 242  
FLUID POWER LAB  
Spring/Fall, 1 credit hour  
A study of force and motion in hydraulic and pneumatic cylinders, involving cylinders, pumps, valves, and accumulators. Electrical, hydraulic, and pneumatic controls will be studied, with an emphasis on sequential operation of fluid devices. Both electrical and fluid schematic diagrams will be examined. One to two hours laboratory per week. Corequisites: Fluid Mechanics (MECH 241) or permission of instructor.

MECH 251  
QUALITY CONTROL  
Fall, 3 credit hours  
Statistical concepts related to quality control. Theory, construction, and interpretation of control charts in an industrial manufacturing environment. Probability as it relates to acceptance sampling and ISO 9000 quality standards. Two hours lecture, two hours laboratory per week.

MECH 301  
TECHNICAL DYNAMICS  
Fall/Spring, 3 credit hours  
Students study the principles of dynamics and the solution of applied engineering problems. Two-dimensional dynamic analysis of particles and rigid bodies are resolved using fundamental analytical methods and computer simulation. Rectilinear, curvilinear, and rotary motion, D’Alembert’s principles of work and energy, impulse and momentum, and Three-dimensional kinematics and dynamics are covered. Three hours lecture per week. Prerequisite: Machine Design (MECH 232) or permission of instructor.

MECH 332  
INTERMEDIATE MACHINE DESIGN  
Fall, 3 credit hours  
This course is a continuation of Machine Design (MECH 232). Design of shafts, keys, couplings and seals provide application to tolerances and fits. The study of bearing types, loads, design life and selection along with fastener selection, machine frames, connection and joints; linear motion, motion control and electric motors and controls used in automated machinery. Three hours lecture per week. Prerequisite: Machine Design (MECH 232) or permission of instructor.

MECH 341  
INTERMEDIATE FLUID MECHANICS  
Fall/Spring, 3 credit hours  
This course is an in-depth study of fluid mechanics. A development of the Navier-Stokes equations to represent two and three dimensional flow will lead to a clear understanding of fluid dynamics in the real world. Additionally students will analyze motion of time-independent and Rayleigh flow, compressible flow and topics of rotating concentric disc to boundary layer situations of airfoils. The introduction of similitude and dimensional analysis will prepare students for further topics related to fluid mechanics. Three hours of lecture per week. Prerequisites: College Physics II (PHYS 122) and Calculus I (MATH 161) or permission of instructor.

MECH 342  
THERMODYNAMICS  
Spring, 3 credit hours  
This course will investigate thermal power and its applications using the first and second laws of thermodynamics. The properties of liquids and gases will be considered in their current and emerging applications to energy production. The fuel sources will be discussed for their energy input and output heat values. The efficiency of all energy applications will be explored while evaluating the theory of heat transfer. Applications of the Rankin, Otto, Brayton, and refrigeration cycles will be used in evaluating the energy production of thermal systems. Three hours of lecture per week. Prerequisites: College Physics II (PHYS 122) and Calculus I (MATH 161), or permission of instructor.
MECH 343
HEAT TRANSFER
Fall/Spring, 3 credit hours
This course explores the various methods of transferring heat from a source to a sink in engineering systems. Topics will focus on the energy balance of a system. The transport phenomena of heat transfer will be studied in detail, allowing students to internalize these physical principles of conduction, convection, and radiation. Three hours of lecture per week. Prerequisites: College Physics II (PHYS 122) and Calculus I (MATH 161), or permission of instructor.

MECH 351
DESIGN OF EXPERIMENTS
Spring, 3 credit hours
This course provides methodologies that engineers, technologists, and management personnel need to plan and conduct experiments to quantify cause and effects relationships in complex systems. Designs of experiments test multiple factors at one time determining whether changes to products, processes, and systems are improvements. Students will perform simple comparative experiments isolating known sources of variation; while multiple level factorial designs will allow analysis for variance (ANOVA) to predict models of interactions that optimize a process. Three hours of lecture per week. Prerequisites: Calculus I (MATH 161) and Junior level status, or permission of instructor.

MECH 412
VIBRATION AND NOISE CONTROL
Fall/Spring, 3 credit hours
Provide guidance relevant to design, problem solving and improvement with the measurement and control of noise and vibration as applied to the industrial environment. Students study the source, distribution and measurement of sound waves and vibrations in beams, cylinders, pipe systems, panels and mechanical equipment. Instruction includes methods for damping noise and vibration. The use of signals generated from noise and vibration as a tool to diagnose the source of the problem and use statistical methods of analysis for determining frequency of service. Three hours of lecture per week. Prerequisites: Statistics (MATH 141), Instrumentation and Controls (MFGT 220), Intermediate Fluids (MECH 341).

MECH 416
APPLIED COMPUTATIONAL FLUID DYNAMICS
Fall/Spring, 3 credit hours
This course introduces the student to modeling and analyzing fluid mechanics problems via the finite difference and finite volume method. Fundamentals of CFD theory, solution, procedures, techniques, and analysis are discussed. Topics include computational grid generation, fluid model setup, convergence and accuracy analysis, data interpretation, model validation and discussion of conclusions. Students will use CFD software to solve various fluid problems. Two hours lectures, two hours laboratory per week. Prerequisites: Intermediate Fluid Mechanics (MECH 341), Differential Equations (MATH 262), or permission of instructor.

MECH 417
APPLIED FINITE ELEMENT METHOD
Fall/Spring, 3 credit hours
This course introduces the student to modeling and analysis of mechanical systems via the finite element method. Topics include the theory and procedures to design computer models to simulate various applied mechanical problems, validation of computer models, and interpretation of numerical results, mesh and accuracy analysis, and discussion of conclusions. Students will use FEM software to solve various mechanical and heat transfer problems. Two hours lectures, two hours laboratory per week. Prerequisites: Machine Design (MECH 232), Differential Equations (MATH 262), or permission of instructor.

MECH 477
CAPSTONE PROJECT
Spring, 3 credit hours
This course provides a learning experience that allows a student to propose, design and implement a project. This could be a study of a problem and solution of specific equipment, new product design, improvement of an existing product, and many others. All projects must be approved by course faculty. A minimum of 120 hours of work is required for this course. Eight hours per week. Prerequisites: Completion of seven semesters of coursework (senior level status) or permission of program director.

MECH 291-295, 391-395, or 491-495
SPECIAL TOPICS IN MECHANICAL ENGINEERING TECHNOLOGY
Fall/Spring, 1-4 credit hours
Special Topics in Manufacturing Technology will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available. Prerequisite: permission of the instructor.

MINS/CITA 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN MANUFACTURING TECHNOLOGY
Fall/Spring, 1-4 credit hours
Special Topics in Manufacturing Technology will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available. Prerequisite: permission of the instructor.

MINS/CITA 300
MANAGEMENT INFORMATION SYSTEMS
Fall/Spring, 3 credit hours
Students learn the concepts underlying the design, implementation, control, evaluation, and strategic use of modern, computer-based information systems for business data processing, office automation, information reporting, decision-making, and electronic commerce. The major emphasis of the course will be on the managerial and strategic aspects of information technology. Three hours lecture per week. Prerequisites: Junior standing or the sum of credits earned and credits currently enrolled in is at least 60 or permission of instructor.

MINS/CITA 307
CUSTOMER RELATIONSHIP MANAGEMENT
Fall/Spring, 3 credit hours
This course provides information systems tools for building a customer-focused organization based on customer data and information. The course focuses on using current data to enhance relationships with customers, gathering data for future marketing endeavors and providing strategic guidance to the organization. The course provides insights into customer life-cycle management, customer lifetime value and measuring customer profitability. Three hours lecture per week. Prerequisites/corequisites: Management Information Systems (MINS/CITA 300) or permission of instructor.

MINS/CITA 315
DECISION SUPPORT SYSTEMS
Fall/Spring, 3 credit hours
This course enables the student to turn raw data into information to help an organization's managers make decisions. Students will develop decision making analytical models to provide organizational leaders with potential outcomes and their effects. Students will study the network's role in distributed systems, distributed systems development tools, and distributed systems issues. Students will apply data-mining techniques supporting knowledge-management decisions. Three hours lecture per week. Prerequisites/corequisites: Management Information Systems (MINS/CITA 300) or permission of instructor.

MINS/CITA 320
INTRODUCTION TO DATA MINING
Spring, 3 credit hours
A systematic introduction to the basic principles, applications, techniques and models of data mining including classification, estimation, prediction, affinity grouping, clustering, description and
profiling. The emphasis is on various data mining problems and their solutions. Students will also be exposed to a sample of data mining applications. Topics include decision trees, artificial neural networks, nearest neighbor approaches, market basket analysis, and association rules. Three hours lecture per week. Prerequisites/corequisites: Introduction to Database (CITA 104) or Database Systems (CITA 215) and Statistics (MATH 141) or permission of instructor.

MINS/CITA 425
ENTERPRISE RESOURCE PLANNING
Fall/Spring, 3 credit hours
This course provides information systems tools to ensure a comprehensive resource planning system for all functions of businesses. The course will discuss the development and employment of enterprise resource planning for marketing, accounting, supply chain management, and human resources. Content will focus on practical applications of enterprise resource planning to ensure businesses get the greatest returns on information systems investment. Three hours lecture per week. Prerequisites/corequisites: Management Information Systems (MINS/CITA 300) and Junior standing or permission of instructor.

MINS/CITA 430
DATA AND KNOWLEDGE MANAGEMENT
Fall/Spring, 3 credit hours
This course focuses on the development of a knowledge-management system using an organization's tacit and explicit knowledge to execute its strategy. The course explores practices entailed in developing a knowledge infrastructure, managing the interaction of people and technology, valuing knowledge assets, leveraging teams, and transferring knowledge across organizations. Three lecture hours per week. Prerequisites/corequisites: Management Information Systems (MINS/CITA 300) and Junior standing or permission of instructor.

MINS 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN MANAGEMENT INFORMATION SYSTEMS
Fall/Spring, 1-4 credit hours
An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in Management Information Systems.

MSPT 101
MOTORSPORTS SERVICE
Fall, 3 credit hours
An introduction to the general theories of systems and maintenance of motorsports vehicles, including motorcycles, snowmobiles, ATV's and personal watercraft.

MSPT 110
ENGINE AND POWER TRANSMISSION SERVICE
Spring, 4 credit hours
This course involves the complete disassembly, inspection, repair and reassembly of modern modular constructed powertrain assemblies. The principles of operations key to high performance, compact engines/transmission assemblies are thoroughly covered. Prerequisite: Motorsports Service (MSPT 101) or permission of instructor. Two hours lectures, four hours laboratory per week.

MSPT 120
FRAME AND SUSPENSION SYSTEMS
Spring, 3 credit hours
This course covers the theory, diagnostic and service procedures used in suspension and frame systems unique to the motorsports arena. Braking and suspension concerns are integrated into frame design theory. Prerequisite: Motorsport Service (MSPT 101) or permission of instructor. Two hours lecture, three hours laboratory per week.

MSPT 130
MARINE PROPULSION
Fall, 2 credit hours
A study of the different types of propulsion systems relative to various types of aquatic craft, including jet and propeller. Theory and construction will be discussed in the context of a one-hour lecture followed by a three-hour working laboratory.

NURS 100
INTRODUCTION TO NURSING
Fall, 1 credit hour
This course provides basic information on the profession of nursing. A historical perspective of the nursing profession is presented, with current and future trends in nursing discussed. An overview of therapeutic communication, stress management, critical thinking, problem solving, data collection and infection control are included. The course also offers opportunity to build drug dosage calculation skills. This course is intended for potential nursing majors. One hour lecture per week. Prerequisites: Beginning Algebra (MATH 100) or equivalent, or permission of instructor.

NURS 101
FUNDAMENTALS OF NURSING
Fall, 6 credit hours
This course is designed to provide the student with knowledge and skills basic to nursing. This course will enable the student to learn nursing concepts and the nursing process, while introducing nursing roles as provider and manager of care and member of the profession. The nursing laboratory on campus is used to facilitate the transfer of knowledge from the classroom to the clinical setting. Clinical nursing experiences are provided to assist students in applying NURS 101 theory in the long-term care setting. Three hours lecture, three hours laboratory, and six hours clinical per week. NURSING MAJORS ONLY.

NURS 102
PSYCHIATRIC AND MATERNAL CHILD NURSING
Spring, 9 credit hours
This second-level clinical nursing course is designed to assist the student in further developing skills, knowledge, and theories introduced in Fundamentals of Nursing (NURS 101) by challenging students with specialized nursing concepts. The course provides students with opportunities to learn concepts in both maternal/child and mental health nursing. Clinical learning experiences assist student in applying Nursing II concepts with persons at various levels of health and wellness for which nursing interventions are necessary. The nursing laboratory will be used to facilitate the transfer of knowledge from the classroom to the clinical area. Six hours lecture, two hours laboratory, seven hours clinical per week. Prerequisites: A grade of “C” or better in the following courses: Human Anatomy and Physiology I (BIOI 217), Fundamentals of Nursing (NURS 101), Pharmacology I (NURS 103), Nursing Seminar (NURS 105), Introduction to Psychology (PSYC 101), Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), or permission of instructor. NURSING MAJORS ONLY.

NURS 103
PHARMACOLOGY I
Fall, 1 credit hour
This introductory pharmacology course will explore the basic principles surrounding pharmacology. Topics include: medication administration, cultural, legal, and ethical issues related to pharmacology, patient education, reduction of medication errors, and the nursing care involved in administration of drugs used to treat nutritional, eye, and ear disorders. One hour lecture per week. NURSING MAJORS ONLY or permission of instructor.

NURS 104
PHARMACOLOGY II
Spring, 1 credit hour
This pharmacology course will explore the various classifications of drugs, and their associated nursing care, used to treat psychiatric, reproductive, and bone/joint disorders. The course will also examine commonly used drugs during pregnancy, and those used to control pain. Pediatric drug administration will also be discussed. One hour lecture per week. Prerequisites: Pharmacology I (NURS 103), Fundamentals of Nursing (NURS 101), or permission of instructor. NURSING MAJORS ONLY.

NURS 105
NURSING SEMINAR
Fall, 1 credit hour
This nursing course is designed to introduce the student to the concept of critical thinking and ways to improve critical thinking, especially as it relates to nursing. The course will also examine the history and development of the nursing profession and issues faced by the professional nurse in the delivery of care. Students will be required to develop a plan for succeeding in the associate degree nursing program that demonstrates self-reflection and evaluation of individual strengths and weaknesses. One hour lecture per week. ASSOCIATE DEGREE NURSING MAJORS ONLY or permission of the instructor.
NURS 200
PHARMACOLOGY III
Fall, 3 credit hours
This course will explore classifications of drugs used to treat skin, neuromuscular, cancer, blood, respiratory, gastrointestinal, fluid and electrolyte, and blood disorders; and discuss the nursing care associated with these agents. In addition, drugs used to treat viral and bacterial infections will be discussed as well as agents used to modify the human immune system. One hour lecture per week. Prerequisites: Pharmacology II (NURS 104), Psychiatric and Maternal Child Nursing (NURS 102), or permission of instructor. NURSING MAJORS ONLY.

NURS 201
MEDICAL-SURGICAL NURSING I
Fall, 10 credit hours
This medical-surgical nursing course develops knowledge, skills, attitudes, and reflection towards evidence based practice of pediatric and adult clients. Emphasis is placed on identification of high risk groups, assessment of deviation from the normal and nursing/interdisciplinary care. The nursing laboratory on campus is used to facilitate the transfer of knowledge from the classroom to the clinical setting. Clinical nursing experiences are provided to assist students in applying NURS 201 theory in the acute care setting. Six hours lecture, three hours laboratory, and nine hours clinical per week. Prerequisites: A grade of "C" or better in the following: Human Anatomy and Physiology I (BIOL 217), Human Anatomy and Physiology II (BIOL 218); Human Development (PSYC 225) or Child Development (PSYC 220), and Psychiatric and Maternal Child Nursing (NURS 102), Pharmacology II (NURS 104), or permission of instructor. NURSING MAJORS ONLY.

NURS 202
MEDICAL-SURGICAL NURSING II
Spring, 10 credit hours
This capstone medical-surgical nursing course enhances the student's critical reflection and dialogue, active questioning of beliefs, values, assumptions, and encourages exploration of new ways of understanding self and others. Students are encouraged to fully and freely engage in dialogue and critical thinking activities that facilitate a deep shift in their ways of thinking, reasoning, and problem solving. Students continue to utilize all skills and competencies necessary to accurately implement the nursing process holistically with diverse client populations. Students achieve their highest levels of potential while preparing for the graduate role in nursing. Clinical nursing experiences are provided to assist students in applying nursing theory in the hospital and/or community setting(s). Six hours lecture, twelve hours clinical/lab per week. Prerequisites: Medical-Surgical Nursing I (NURS 201) (minimal grade of C), Microbiology (BIOL 209) (minimal grade of C), or permission of instructor. NURSING MAJORS ONLY.

NURS 203
PROFESSIONAL ISSUES AND TRENDS IN NURSING
Spring, 1 credit hour
This writing intensive course is designed to increase the awareness of current issues affecting the nursing profession. This course will examine the health care environment, health care finance, the political process and the nursing profession, nursing theorists and conceptual models of nursing, nursing research, nursing licensure, development of nursing as a profession, legal responsibilities for practice, ethical concerns in nursing practice, management and leadership, bioethical issues in healthcare, and nursing practice activities. One hour lecture per week. Prerequisites: Medical-Surgical Nursing I (NURS 201), Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102), all with a minimum grade of C, or permission of instructor. NURSING MAJORS ONLY.

NURS 204
PHARMACOLOGY IV
Spring, 1 credit hour
This pharmacology course will explore the various classifications of drugs, and their associated nursing care, used to treat immune, cardiac, endocrine, renal, and nervous system disorders and emergency preparedness. One hour lecture per week. Prerequisites: A grade of "C" or better in the following: Human Anatomy and Physiology I (BIOL 217), Human Anatomy and Physiology II (BIOL 218); Human Development (PSYC 225) or Child Development (PSYC 220), and Psychiatric and Maternal Child Nursing (NURS 102), Pharmacology II (NURS 104), or permission of instructor. NURSING MAJORS ONLY.

NURS 300
CONCEPTUAL FRAMEWORKS IN NURSING
Fall, 3 credit hours
This course examines the historical development and evolution of nursing theory and its interrelationship to research and professional nursing practice. The course includes critical thinking activities used to conceptualize, apply, analyze, and synthesize knowledge related to specific nursing theories and their importance in nursing education, practice, and research. A group project that incorporates the students' knowledge of nursing theory and nursing theorists will be used to demonstrate an understanding of the relevance of theory to practice. Three hours lecture per week. Prerequisites: Students must be enrolled in the RN-BS program and must possess a current, valid license to practice as a Registered Professional nurse or permission of instructor.

NURS/HSMB 301
PUBLIC HEALTH ISSUES
Fall, 3 credit hours
The course begins with an overview of the history and development of public health. The student is then provided with the opportunity to examine the current public health care system. The fundamentals of epidemiology also are covered. Applications to the students' practice settings are explored. Health planning, health promotion, and global health issues are included. Three hours lecture per week. Prerequisites: RN license or senior standing in an AS nursing program or permission of instructor.

NURS/HSMB 302
LEGAL AND ETHICAL ISSUES IN HEALTH CARE
Spring, 3 credit hours
The student will examine the legal and ethical issues related to health care as they impact the health services managers involved in health care decision making. A variety of commonly experienced legal situations and ethical dilemmas will be discussed, including professional liability, patients' rights, abortion, AIDS care, informed consent, organ transplantation, health care delivery and resource allocation and issues related to death and dying and funeral home care. Lecture, role playing, case study evaluation and guest lecturers from the field of medical law and ethics will be used to meet the objectives of the course. Three hours lecture per week. Prerequisites: RN license or senior standing in an AS nursing program or permission of instructor.

NURS 303
HEALTH ASSESSMENT IN NURSING
Fall, 4 credit hours
This course will provide the student with knowledge and skills basic to health assessment in nursing. The course emphasizes critical thinking skills required for accurate collection and analysis of client health information and provides opportunities for enhancement of physical assessment skills. Students will be responsible for finding a qualified preceptor (with the approval of the course instructor) in order to successfully complete the clinical portion of this course. Two hours lecture per week and 45 hour preceptorship. Prerequisite: Students must be admitted into the RN-BS program or permission of instructor.

NURS 304
HEALTH PROMOTION AND RESTORATION
Spring, 3 credit hours
This course provides the student with knowledge of the major individual and community models and theories that guide health promotion interventions across the life span. This course presents information that enhances the students' ability to provide holistic health promotion and preventive care. The planning, implementing and evaluating of health promotion, prevention, and restoration activities for individuals, families, and communities is stressed. Relevant community based clinical experiences, integrated throughout the course provide opportunities for the student to demonstrate evidence-based health promotion care to diverse and vulnerable populations. Three hours lecture per week. Prerequisites/ corequisites: Conceptual Frameworks in Nursing (NURS 300) and Health Assessment in Nursing (NURS 303) or permission of instructor.

NURS/DHYG 370
RESEARCH METHODS IN THE SOCIAL AND HEALTH SCIENCES
Fall/Spring, 3 credit hours
This course provides an intense comprehensive study of the scientific research process utilized in the social and health sciences. Students will be trained to
be critical consumers of published research and will be expected to complete a research project. Topics that will need to be covered include the underlying theories of research; critically evaluating research; measurement; sampling techniques, establishing causation, surveys, qualitative approaches, field research, and data management and presentation. Three hours lecture per week. Prerequisite: Introduction to Psychology (PSYC 101) or Introduction to Sociology (SOCI 101) or Introduction to the Science and Technology of Behavior (SSCI 245) or Principles of Macroeconomics (ECON 101) or Principles of Microeconomics (ECON 103) or permission of instructor. Statistics (MATH 141) or equivalent coursework is a prerequisite/corequisite. Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102) is a prerequisite for this writing intensive course. Additionally, students must have at least junior level status or permission of instructor.

NURS 400
NURSING MANAGEMENT AND LEADERSHIP
Spring, 3 credit hours
This course introduces the student to the conceptual basis for the application of leadership and management principles. The student gains a better understanding of the application of these principles in the management and coordination of health care delivery systems. Exploration of the critical components of leadership and management in diverse health care settings and application of course content enhances the coordination of quality client care and the role of the nurse as a leader and manager. Two hours lecture per week and 45 hour preceptorship. Prerequisites: Conceptual Frameworks in Nursing (NURS 300), Public Health Issues (NURS 301), Legal and Ethical Issues in Health Care (NURS 302), Health Assessment in Nursing (NURS 303), Health Promotion and Restoration in Nursing (NURS 304) or permission of instructor.

NURS 402
COMMUNITY HEALTH NURSING
Spring, 3 credit hours
This course provides the student with a comprehensive introduction to the conceptual frameworks underpinning community health nursing. This course explores and promotes the caring frameworks and integrated health care concepts utilized to practice professional nursing in the community setting. Public health principles, nursing theory and skills, the impact of global health status, and our continuing national health agendas are themes interwoven throughout the course. The clinical component provides an opportunity to apply theoretical content in the community setting. Two hours lecture, 45 hour preceptorship. Prerequisites: Research Methods in the Social and Health Sciences (NURS 370), senior level status or permission of instructor.

NURS 403
TRANSCULTURAL NURSING
Spring, 2 credit hours
This course provides the student with an overview of the influence of culture on health care practices and in the delivery of nursing care for individuals, groups, and communities. Increased awareness of culturally diverse nursing care and a sound understanding of the impact of cultural beliefs, values, and practices upon health and health care delivery is a direct outcome of this course. The student explores and reflects upon their own cultural beliefs related to health and health care delivery and examines client behaviors, cultural perspectives, and barriers to transcultural communication. Knowledge, understanding, and sensitivity to diverse cultural values and meanings are an interwoven theme throughout the course content. Two hours lecture. Prerequisites: Research Methods in the Social and Health Sciences (Nursing 370), senior level status or permission of instructor.

PHED 101
WEIGHT TRAINING
Fall/Spring, 1 credit hour
A study of the scientific principles and practices of progressive resistive weight training. The student will become familiar with sophisticated scientific research relative to weight training. Working with the instructor, the student will meet specific interests and objectives in developing and participating in a weight training program. Two hours of class per week.

PHED 103
AEROBICS
Fall/Spring, 3 credit hours
An examination and implementation of the world's most popular physical fitness program (walking, jogging, swimming, cycling, etc.). Aerobics is based on a scientifically-developed point system, aimed at the overall fitness and health of your body. This program enables you to test yourself, decide how much activity you need, choose your own individual aerobic plan and measure your progress. The course, developed for both men and women of all ages, will provide opportunities for the students to establish a lifelong program for more healthful living. Three hours lecture per week.

PHED 207
PHYSICAL FITNESS AND WELLNESS
Spring, 2 credit hours
The course is designed to provide each student with a conceptual and practical exposure to the principles of wellness and fitness that lead to a healthy life-style. The intent of the course is to provide the knowledge and skills with which to make appropriate lifestyle choices in a self-directed manner. Emphasis will be placed on the benefits of physical activity and the serious hazards of being inactive. Two hours lecture per week.

PHIL 201
INTRODUCTION TO PHILOSOPHY
Spring, 3 credit hours
Rather than a history of philosophy, this course will focus on a study of personal values, ethics, and self-understanding in relation to life and its challenges. Students will compare traditional and contemporary philosophies and discuss how, when we face issues, we search for answers to life and its problems. Students will learn how to inquire into complex problems using effective methods of inquiry, analysis, and criticism, in order to begin to formulate their own philosophy. Three hours lecture per week.

PHSC 101-LECTURE
PHSC 102-LAB
PHYSICAL SCIENCE
Fall/Spring, 3–4 credit hours GER 2
The major concepts of many of the physical sciences are presented, with physics and chemistry being covered extensively. Special emphasis is placed on how these concepts are related to the society and environment in which the students operate. No science background is assumed. Basic math skills are desirable but not essential. Three hours lecture per week. If lab is elected, an additional two hours laboratory per week is required.

PHTA 100
INTRODUCTION TO PHYSICAL THERAPY
Fall, 3 credit hours
Physical Therapist Assistant students are introduced to the discipline of physical therapy including history and philosophies. They receive introduction to a variety of practice settings and the team approach to rehabilitation. Students are familiarized with the Guide to Physical Therapist Practice and uniform terminology. Scope of practice, the New York State Practice Act, and ethical standards of conduct of the physical therapist assistant and the core values of physical therapy are identified. Medical terminology is introduced as an on-line self-tutorial. Students are introduced to basic physical therapy documentation and reimbursement issues. Cultural awareness is discussed and students begin to learn about interaction with individuals from cultures different than their own. Two hours lecture, one hour on-line per week. Corequisites: Fundamental Physical Therapy Skill and Modalities (PHTA 101), Human Anatomy and Physiology I (BIOL 217), all courses included in the first semester of the PTA program or permission of instructor.

PHTA 101
FUNDAMENTAL PHYSICAL THERAPY SKILLS AND MODALITIES
Fall, 3 credit hours
Physical Therapist Assistant students are introduced to fundamental physical therapy skills including documentation, proper body mechanics, patient preparation, positioning, dependent mobility, assisted transfers, passive joint range of motion, assistive ambulation and aseptic techniques. Thermal modalities and massage are studied and applied. The PTA student begins learning patient data collection including standard vital signs and anthropometric measurements. The student begins to describe and recognize the functional status and progression and safety of patients while engaged in gait, locomotion, wheelchair management, and mobility activities. Two hours lecture, three hours laboratory per week. Prerequisite: acceptance into...
PHTA 102  
**KINESIOLOGY**  
*Spring, 3 credit hours*

Study and application of human motion is covered beginning with general anatomic terminology and concepts, types and laws of motion, bone, joint and muscle structure and function. Origins, insertions, actions and innervations of extremity and trunk musculature and palpable surfaces of same are discussed. Kinesiological concepts related to the gait cycle, posture, and functional movement are addressed. Two hours lecture, two hours laboratory per week. Prerequisite: Human Anatomy and Physiology I (BIOL 217) or permission of instructor.

PHTA 103  
**MUSCULOSKELETAL PATHOLOGIES**  
*Spring, 4 credit hours*

Students are introduced to tissue healing in relation to musculoskeletal pathologies and their role in assisting the physical therapist with management of this patient population. The principles and techniques of therapeutic exercise are presented and related to specific musculoskeletal pathologies across the lifespan. The student will learn to apply a variety of exercise techniques when given the physical therapy plan and goals/expected outcomes. There will be a focus on educating the patient and/or care giver throughout the course. Students will also begin to read and understand professional literature. Three hours lecture, three hours laboratory per week. Prerequisites: Introduction to Physical Therapy (PHTA 100), Fundamental Physical Therapy Skills (PHTA 101), Clinical I (PHTA 104) and Human Anatomy and Physiology I (BIOL 217). Corequisites: Kinesiology (PHTA 102), Musculoskeletal Pathologies (PHTA 103), Clinical II (PHTA 106) and Human Anatomy and Physiology II (BIOL 218), or permission of instructor.

PHTA 104  
**CLINICAL I**  
*Fall, 1 credit hour*

Students are assigned in small groups to physical therapy clinical sites where they will work under the direct supervision of a licensed physical therapist or physical therapist assistant. Emphasis in this semester is on integration of skills learned in PHTA coursework during the fall & spring semesters appropriate to the outpatient orthopedic physical therapy setting, including professional behaviors, communication, documentation, reimbursement, therapeutic exercise, thermal modalities, massage, & musculoskeletal data collection, emphasizing joint range of motion & manual muscle testing. This course provides the student with the opportunity to put the knowledge and skills he/she has acquired so far in the classroom and laboratory into practice in a clinical setting. Eight hours per week, once every three weeks. Corequisites: Introduction to Physical Therapy (PHTA 100), and Fundamental Physical Therapy Skills and Modalities (PHTA 101), or permission of instructor.

PHTA 105  
**MUSCULOSKELETAL ASSESSMENT TECHNIQUES**  
*Spring, 1 credit hour*

This course introduces students to data collection tools used to assist the physical therapist with assessment of the musculoskeletal system. Emphasis will be placed on developing skill competency with goniometry and manual muscle testing, and postural assessment. Students will also gain familiarity with common medical imaging tests, orthopedic special tests, and functional assessments. One hour of lecture, and two hours laboratory per week in the second semester of the Physical Therapist Assistant curriculum. Prerequisites: Introduction to Physical Therapy (PHTA 100), Fundamental Physical Therapy Skills (PHTA 101), Clinical I (PHTA 104), and Human Anatomy and Physiology I (BIOL 217). Corequisites: Kinesiology (PHTA 102), Musculoskeletal Pathologies (PHTA 103), Clinical II (PHTA 106), and Human Anatomy and Physiology II (BIOL 218), or permission of instructor.

PHTA 106  
**CLINICAL II**  
*Spring, 1 credit hour*

Students are assigned in small groups to physical therapy clinical sites where they will work under the direct supervision of a licensed physical therapist or physical therapist assistant. Emphasis in this semester is on integration of skills learned in PHTA coursework during the fall & spring semesters appropriate to the outpatient orthopedic physical therapy setting, including professional behaviors, communication, documentation, reimbursement, therapeutic exercise, thermal modalities, massage, & musculoskeletal data collection, emphasizing joint range of motion & manual muscle testing. This course provides the student with the opportunity to put the knowledge and skills he/she has acquired so far in the classroom and laboratory into practice in a clinical setting. Prerequisites: Introduction to Physical Therapy (PHTA 100), Fundamental Physical Therapy Skills (PHTA 101), Clinical I (PHTA 104), and Human Anatomy and Physiology I (BIOL 217). Corequisites: Kinesiology (PHTA 102), Musculoskeletal Pathologies (PHTA 103), Musculoskeletal Assessment Techniques (PHTA 105), and Human Anatomy and Physiology II (BIOL 218).

PHTA 203  
**PTA SEMINAR I**  
*Fall, 3 credit hours*

This seminar course allows second year PTA students to engage in activities and discussions that will facilitate the development of the Core Values of physical therapy practice. Writing assignments, including a research paper, and in class assignments and discussion, as well as outside activities, will foster the students’ integration of the American Physical Therapy Association core values of accountability, altruism, compassion/caring, cultural competence, excellence, integrity, duty, and social responsibility in preparation for culminating clinical affiliation experiences and clinical practice as a Physical Therapist Assistant. This course satisfies the writing intensive requirement for the PTA curriculum. Three hours lecture per week. Prerequisites: Successful completion of all coursework in the first two semesters of the PTA curriculum or permission of instructor. PHTA majors only.

PHTA 204  
**CARDIOPULMONARY AND INTEGUMENTARY PATHOLOGIES**  
*Fall, 3 credit hours*

In the first half of the semester students will study the cardiopulmonary system and related pathologies. Cardiopulmonary rehabilitation principles and management will be discussed and applied. Students will learn about diabetes and peripheral vascular disease as a lead-in to amputee and prosthetic rehab. Management of injuries to the integumentary system, including wounds, and burns will be studied. Two hours lecture, three hours laboratory per week. Prerequisites: Successful completion of all coursework in the first two semesters of the PTA curriculum or permission of instructor. PHTA majors only.

PHTA 205  
**NEUROMUSCULAR PATHOLOGIES**  
*Fall, 4 credit hours*

Neuroanatomy will be presented in preparation for the study of neurological assessments and facilitation techniques used in treatment of persons with neuromuscular pathologies. Normal, fine, and gross motor development and neuropathologies, both central and peripheral, throughout the life span will be discussed and treatment techniques practiced. Two hours lecture, four hours laboratory per week. Prerequisites: Successful completion of all coursework in the first two semesters of the PTA curriculum or permission of instructor. PHTA majors only.

PHTA 206  
**ADVANCED PHYSICAL THERAPY MODALITIES**  
*Fall, 2 credit hours*

Students will learn basic principles of electricity and electrotherapy. Application of electrotherapeutic agents for pain control, neuromuscular stimulation, and tissue/wound healing will be studied and applied. Students will be introduced to spinal traction as a therapeutic modality. Students will enhance their research skills by reviewing and critiquing current professional literature related to various course topics. One hour lecture, three hours laboratory per week. Prerequisites: Successful completion of all coursework in the first two semesters of the PTA curriculum or permission of instructor. PHTA majors only.

PHTA 207  
**CLINICAL III**  
*Spring, 3 credit hours*

This clinical practicum correlates with content taught in courses PHTA 100 through PHTA 206. The student is assigned to a physical therapy clinical site where he/she will work under the direct supervision of a licensed physical therapist or registered...
Course Descriptions: PHYSICAL THERAPY ASSISTANT, PHYSICS

physical therapist assistant. This will provide the student with the opportunity to put the knowledge and skills they have learned in the classroom and laboratory into practice in a clinical setting. The PTA student will demonstrate clinical problem solving skills based on their academic knowledge and previous lab and clinical experiences. This experience will begin the fourth semester and will last seven full-time weeks. Prerequisites: Successful completion of first three semesters of PTA curriculum or permission of instructor. For PHTA majors only.

PHTA 209
CLINICAL IV
Spring, 7 credit hours
This clinical practicum correlates with content taught in courses PHTA 100 through PHTA 207. The student is assigned to a physical therapy clinical site where he/she will work under the direct supervision of a licensed physical therapist or registered physical therapist assistant. This will provide the student with the opportunity to put the knowledge and skills they have learned in the classroom and laboratory into practice in a clinical setting as well as expand their practical knowledge learned in prior clinical courses I, II, and III. This experience will begin in mid fourth semester and will last seven full time weeks. Prerequisites: Successful completion of first three semesters of PTA curriculum and Clinical III (PHTA 207) or permission of instructor. For PHTA majors only.

PHYS 115
BASIC PHYSICS
Fall/Spring, 4 credit hours
This is an introductory college physics course which uses algebra and trigonometry in developing some of the fundamental concepts of classical physics. Topics covered are units of measurement, vectors, velocity, acceleration, force, Newton's Laws of Motion, gravity, momentum, work, energy, power, circular motion, rotational motion and thermodynamics. Usually taken concurrently with Physics Lab I (PHYS 125). Three to four hours lecture per week. Prerequisites: Beginning Algebra (MATH 100) or permission of instructor. No science background is assumed.

PHYS 121
COLLEGE PHYSICS I
Fall/Spring, 3 credit hours
This is an introductory college physics course which uses algebra and trigonometry in developing some of the fundamental concepts of classical physics. Topics covered are properties of solids and fluids, temperature, heat, laws of thermodynamics, electric forces and fields, electrical energy, capacitance and resistance, direct current circuits, reflection and refraction of light, wave optics. Usually taken concurrently with Physics Lab II (PHYS 126). Three to four hours lecture per week. Prerequisites: College Algebra (MATH 121) or permission of instructor.

PHYS 122
COLLEGE PHYSICS II
Spring, 3 credit hours
This is the second semester of an introductory college physics course which uses algebra and trigonometry in developing some of the fundamental concepts of classical physics. Topics covered are properties of solids and fluids, temperature, heat, laws of thermodynamics, electric forces and fields, electrical energy, capacitance and resistance, direct current circuits, reflection and refraction of light, wave optics. Usually taken concurrently with Physics Lab II (PHYS 126). Three to four hours lecture per week. Prerequisites: College Physics I (PHYS 121) or permission of instructor.

PHYS 125
PHYSICS LAB I
Fall/Spring, 1 credit hour
Physics Laboratory I is a laboratory course to accompany College Physics I (PHYS 121) or University Physics I (PHYS 131). Students in these two courses will have common laboratory experiments concerning translational mechanics, rotational mechanics and graphical analysis. This course is designated as writing intensive. Two hours laboratory per week. Prerequisites: Technical Math II (MATH 136) or permission of instructor.

PHYS 126
PHYSICS LAB II
Spring, 1 credit hour
This is a laboratory course to accompany College Physics II (PHYS 122) or University Physics II (PHYS 132). Experiments examine electricity, DC circuits and optics. This course is designated as writing intensive. Two hours laboratory per week. Prerequisites: College Physics II (PHYS 122) or University Physics II (PHYS 132) or permission of instructor.

PHYS 127
PHYSICS LAB III
Fall, 1 credit hour
This laboratory course is to accompany University Physics III (PHYS 133). The student will perform experiments related to collisions, properties of materials, rotational motion and thermal physics. This course is designated as writing intensive. Two hours laboratory per week. Prerequisites: University Physics III (PHYS 133) or permission of instructor.

PHYS 131
UNIVERSITY PHYSICS I
Fall/Spring, 3 credit hours
This is an introductory college physics course which uses basic calculus in developing some of the fundamental concepts of classical physics. Topics covered are measurement, vector manipulation (including unit vector notation), linear kinematics and dynamics, motion in a plane, and conservation of energy and linear momentum. Usually taken concurrently with Physics Lab I (PHYS 125). Three to four hours of lecture per week. Prior exposure to physics recommended. In some unusual situations, permission of instructor may be given. Prerequisite: Calculus I (MATH 161) or permission of instructor.

PHYS 132
UNIVERSITY PHYSICS II
Spring, 3 credit hours
This calculus based course covers topics in the area of electricity, magnetism and optics. Topics include electric fields, electric potential, conductivity, capacitance, magnetic fields, inductance, AC and DC circuits, EM waves, geometric optics and physical optics. Usually taken concurrently with Physics Lab II (PHYS 126). Three hours lecture per week. Prerequisite: University Physics I (PHYS 131); Corequisite: Calculus II (MATH 162) or permission of instructor.

PHYS 133
UNIVERSITY PHYSICS III
Fall, 3 credit hours
This is the third semester of an introductory college physics course which uses basic calculus in developing some of the fundamental concepts of classical physics. Topics covered are rotation of rigid objects, static equilibrium of extended bodies, simple harmonic motion, gravitation, fluid mechanics, the laws of thermodynamics and kinetic theory of gases. Usually taken concurrently with Physics Lab III (PHYS 127). Three to four hours of lecture per week. Prerequisite: University Physics I (PHYS 131); Corequisite: Calculus II (MATH 162); or permission of instructor.
PHYS 202 MODERN PHYSICS  
**Spring**, 3 credit hours  
The atomic view of matter, electricity and radiation, Bohr model, relativity, particle properties of waves, wave properties of particles, introduction to quantum mechanics, quantum theory of the hydrogen atom, the solid state, introduction to Fourier series and integrals and statistical mechanics. Three hours lecture per week. Prerequisite: University Physics II (PHYS 132) or permission of instructor.

PHYS 301 INTRODUCTION TO PHOTONICS  
**Fall/Spring**, 3 credit hours  
This course explores the production and nature of light including: the laws of reflection and refraction, theory of image formation, principles of wave optics (including interference, diffraction and polarization), fundamentals of fiber optic theory, principles of lasers and laser safety, and the basics of holography with image processing. Throughout the course, emphasis is placed on applications of holography with image processing. This course will explore the applications of electromagnetics in medicine, transportation, manufacturing, communications, environmental monitoring and consumer devices. Three hours lecture per week. Prerequisite: College Physics II (PHYS 122) or University Physics II (PHYS 132), or permission of instructor.

PHYS 330 INTRODUCTION TO CLASSICAL MECHANICS  
**Fall/Spring**, 3 credit hours  
This course is a presentation of Newtonian mechanics at the intermediate level. Topics include dynamics of particles and rigid bodies, rotating reference frames, conservation laws, gravitational fields and potentials, planetary motion, wave motion, oscillation, Lagrangian and Hamiltonian equations. Three hours of lecture per week. Prerequisites: College Physics II (PHYS 122) or University Physics II (PHYS 132) or permission of instructor.

PHYS 340 ELECTROMAGNETISM  
**Fall/Spring**, 3 credit hours  
This course is an intermediate level presentation of the physics of the electromagnetic field. The course will explore the applications of electromagnetism in medicine (magnetic resonance imaging), and the interdependencies between electric and magnetic fields which are the essence of the theories of circuits, lines, antennas and guided waves. Topics include Electric and magnetic fields using vector methods, Gauss’s law, theory of dielectrics, Ampere’s law, Faraday’s law, vector potential, displacement current, Maxwell’s equations, wave propagation in dielectrics and conductors, and production and propagation of radiation. Three hours of lecture per week. Prerequisites: University Physics II (PHYS 132) or College Physics II (PHYS 122), Calculus II (MATH 162), or permission of instructor.

PHYS 410 SOLID STATE SCIENCE  
**Fall/Spring**, 3 credit hours  
This course explores how the diverse properties (mechanical, electronic, optical and magnetic) of solid materials can be related to interactions at the atomicistic level. Topics include crystal structures; bonding in solids; x-ray, neutron, and electron diffraction in crystals; lattice vibrations; energy bands in solids; the free-electron model; semiconductor and semiconductor devices. Three hours lecture per week. Prerequisites: Modern Physics (PHYS 202) or permission of instructor.

PHYS 420 INTRODUCTION TO QUANTUM MECHANICS  
**Fall**, 3 credit hours  
This course is a senior-level introduction to the theory and formalism of non-relativistic quantum mechanics and its applications. This course provides the background with which to understand and meet the challenge of new applications of quantum mechanics. Principles of quantum mechanics and some mathematical techniques of solving quantum mechanical problems are examined. Three hours lecture per week. Prerequisite: University Physics II (PHYS 132) or College Physics II (PHYS 122); Calculus II (MATH 162), or permission of instructor.

PHYS 291-295, 391-395, OR 491-495 SPECIAL TOPICS IN PHYSICS  
**Fall/Spring**, 1–4 credit hours  
Special Topics in Physics will generally include topics of current interest or topics not covered in courses currently offered by the department or in combinations not currently available. Prerequisite: permission of instructor.

POL S 101 INTRODUCTION TO GOVERNMENT AND POLITICS  
**Fall/Spring**, 3 credit hours  
A study of major political concepts and approaches with emphasis on origin and nature of political systems. This course will also focus on structures and functions of political systems, rights and responsibilities of individuals, institutions, and political organizations such as interest groups, political parties, etc. Three hours lecture per week. Prerequisite: Introduction to Government and Politics (POLS 101) or permission of the instructor.

POL S 201 CONSTITUTIONAL LAW AND CIVIL LIBERTIES  
**Fall**, 3 credit hours  
An examination of the principles and Processes of the American judicial system, constitutional issues defining the relationship between law enforcement and civil rights and liberties will be discussed to acquaint the student with the special problems of justice in a democratic society. Three hours lecture per week. Prerequisite: Introduction to Government and Politics (POLS 101) or permission of the instructor.

PSYC 101 INTRODUCTORY PSYCHOLOGY  
**Fall/Spring**, 3 credit hours  
An introduction to the scientific analysis of behavior. Attention is given to the historical background of present-day psychology, scientific methodology, the physiological basis of behavior, perception, learning, motivation, emotion, personality and the analysis and measurement of individual difference. Three hours lecture per week.

PSYC 111 APPLIED PSYCHOLOGY  
**Fall/Spring**, 3 credit hours  
A survey of psychological principles and research-supported findings in the following applied areas: psychology applied to human adjustment;
applications of psychology to business and industry, and consumer psychology. An additional option might include the topic of psychology applied to criminal behavior. Three hours lecture per week.

PSYC 220
CHILD DEVELOPMENT
Fall/Spring, 3 credit hours
An eclectic approach to the growth and development of the child from conception to adolescence. Various theories and research will be covered to give a balanced picture of the changes that occur in areas such as cognition, personality, social relationships, behavior, physical development, and sociocultural factors throughout the life of a child. Three hours lecture per week (with optional placement at a day care center). This course is an alternate to Human Development (PSYC 225). Students may receive credit for only one developmental psychology course. Prerequisite: Introductory Psychology (PSYC 101) or permission of instructor.

PSYC 225
HUMAN DEVELOPMENT
Fall/Spring, 3 credit hours
A systematic study of behavior from conception through death with emphasis on the psychosocial, biobehavioral, cognitive development and sociocultural factors affecting humans during various stages of development. Special emphasis is placed on scientific methods of human study and the understanding and treatment of common behavioral problems. Three hours lecture per week. This course is an alternate to Child Development (PSYC 220). Students cannot receive credit for both. Prerequisite: Introductory Psychology (PSYC 101), or permission of instructor.

PSYC 275
ABNORMAL PSYCHOLOGY
Fall/Spring, 3 credit hours
An overview and critical study of the types and symptoms of mental and emotional disorders, emphasizing their causes, classification, and treatment from a variety of perspectives. This course will present the major theoretical approaches to understanding abnormality including psychodynamic, behavioral, cognitive, humanistic, existential, family systems, sociocultural, and medical. The course will include a critique of historical and current trends, myths, controversies, and misunderstandings surrounding psychological abnormality. Three hours lecture per week. Prerequisite: Introductory Psychology (PSYC 101) or Applied Psychology (PSYC 111), or permission of instructor.

PSYC 310
COUNSELING THEORIES AND PRACTICE
Fall/Spring, 3 credit hours
This course is a survey of the major theories of psychological counseling and common issues and principles in the practice of the helping professions. A critical presentation of the theoretical models focuses on the concepts, principles, techniques, goals, and contributions of each approach to counseling. The uses and limitations of each theory are discussed. Issues related to the helping professions are include standards of professionalism, ethics, and legalities. Three hours lecture per week. Prerequisite: Minimum of 9 credits of psychology with a "C" or better average, including Introductory Psychology (PSYC 101), Abnormal Psychology (PSYC 275), Child Development (PSYC 220) or Human Development (PSYC 225), or permission of instructor.

PSYC 315
CRISIS INTERVENTION
Fall/Spring, 3 credit hours
This course introduces students to the most common types of crisis events arising in settings such as the hospital emergency room, community mental health center, community on-line, correctional facilities, and police services. It provides knowledge of the major assessment methods and models of intervention appropriate to the setting. There is also an emphasis on special groups including the development and treatment of crises with children and adolescents, college students, culturally diverse populations, victims of violence, victims of disaster or terrorism, and vicarious trauma experienced by care-givers. Students will learn through case studies, readings, group activities and role-play experiences. Three hours lecture per week. Prerequisites: Child Development (PSYC 220) or Human Development (PSYC 225) or Abnormal Psychology (PSYC 275), or permission of instructor.

PSYC3HE/HEF 320
PSYCHOLOGY OF HEALTH AND FITNESS
Fall/Spring, 3 credit hours
This course will examine human behavior and how it relates to healthy behavior and fitness. The effects of psychological factors on health, fitness and wellness, and the effects of physical activity and sports on psychological well-being will be discussed. The concept of Positive Psychology, a strength-based, preventive approach to personal and community research and interventions will be an integral part of the course. Three hours lecture per week. Prerequisite: Human Development (PSYC 225), junior level status, or permission of instructor.

PSYC 340
SOCIAL PSYCHOLOGY
Fall/Spring or online, 3 credit hours
An introduction to the scientific study of how thoughts, feelings, and behaviors are influenced by other people. The course encompasses fundamental principles and theories including attitude formation and change, persuasion, perceptions of the self and other people, conformity, group dynamics, romantic and close relationships, prejudice, aggression, and helping behaviors. Application of theories to real-world settings will be emphasized, the role of culture will be incorporated into the course, and historical as well as current trends in the field will be discussed. Three hours lecture per week. Prerequisites: Introduction to Psychology (PSYC 101) or Introduction to Sociology (SOCI 101) or Introduction to the Science and Technology of Behavior (SSCI 245), junior level status, or permission of instructor.

PSYC 350
EDUCATIONAL PSYCHOLOGY
Spring, 3 credit hours
A study of human behavior in educational settings: the application of child and adolescent development and learning principles; including use of tests and measurements, motivation, exceptional learners, classroom and behavior management, cognitive strategies, and introduction to the concept of “Expert” teacher and student. Three hours lecture per week. Prerequisites: A grade of C or better in Child Development (PSYC 220) or Human Development(PSYC 225) and a minimum of 30 credit hours with a GPA of 2.0.

PSYC 360
ORGANIZATIONAL PSYCHOLOGY
Fall/Spring, 3 credit hours
An examination of the behavior of people in organizations. Topics include learning in organizations, motivating people, giving performance feedback, group processes, enhancing organizational effectiveness, personnel issues, morality and ethics in organizations, and helping people deal with stress. Three hours lecture per week. Prerequisite: Introduction to Psychology (PSYC 101) or Introduction to Sociology (SOCI 101) or Introduction to the Science and Technology of Behavior (SSCI 245), or permission of instructor.

PSYC 410
COUNSELING SKILLS AND PROCESS
Fall/Spring, 3 credit hours
This course is an examination and practice of the skills, techniques, and process of counseling for students entering one of the helping professions. Specific techniques are described, demonstrated and practiced. The stages of the counseling process and the goals and methods of each stage are discussed and practiced. Three hours lecture per week. Prerequisites: Counseling Theories and Practice (PSYC 310) with a grade of "C" or better or permission of the instructor.

PSYC 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN PSYCHOLOGY
Fall/Spring, 1–4 credit hours
Individual courses of instruction of variable credit (1–4 credits) may be offered each semester. These courses are designed to expand on topics in specific areas of psychology. Prerequisite: depends on the nature of each course.

SOCI 101
INTRODUCTION TO SOCIOLOGY
Fall/Spring, 3 credit hours
GER 3
This course provides an introduction to the discipline of sociology, including historic development, reliance on scientific method, core concepts and theories, and units of analysis from the dyad to society. Three hours lecture per week.

SOCI 105
AMERICAN SOCIAL PROBLEMS
Fall/Spring, 3 credit hours
GER 3
A sociological perspective on the origin, nature,
impact and policies which address contemporary problems. Emphasis will be placed on institutional/ macro sociological analysis of interrelationships, and the global context of American problems. Three hours lecture per week.

SOCI 205 SOCIAL DEVIANCE AND CONTROL
Fall/Spring, 3 credit hours
Social deviance is the study of actions, attitudes and attributes which are disliked and violate societal norms. Deviance includes such state-sanctioned activities as criminal behavior and delinquency to a range of actions and attitudes that challenge the normative order of society. This course will provide a detailed examination of the general theories, and range of empirical data, that attempt to explain the existence and occurrence of deviance. Three hours lecture per week. Prerequisite: Introduction to Sociology (SOCI 101) or permission of instructor.

SOCI 210 SOCIOLOGY OF THE FAMILY
Fall, 3 credit hours
The study of family as a key social unit with the emphasis on structure, functions, problems and future of the institution. Cross-cultural comparisons, the relationship between the family and other institutions, and family-related policies also will be discussed. Three hours lecture per week.

SOCI 250 SOCIOLOGY OF THE MASS MEDIA
Fall/Spring, 3 Credit hours
The course will begin by exploring the component and the basic concepts of mass media. Special emphasis is on the social construction power of the mass media. The positive role of the mass media will be explored as well as the negative impact. The social control function of the mass media will be explained. The course is aimed at providing a critical assessment of the social construction power of the mass media with an emphasis on images, content and context as presented in the mass media. The course will explore the images of various segments of American society as presented in the mass media including racial/ethnic groups, gender and sexual orientation, age and class. Three hours lecture per week. Prerequisite: Introduction to Sociology (SOCI 101) or permission of instructor.

SOCI 300 RACE AND ETHNIC RELATIONS: AMERICAN AND GLOBAL PERSPECTIVES
Spring, 3 credit hours
This course provides an overview and critical assessment of racial and ethnic relations. The student will be exposed to theories and research that explore the nature of ethnic stratification, incorporation, exclusion, and identity. Focusing on the United States, the course will survey key institutions and identify issues that reflect on inclusion/exclusion/ identity. In addition, the course will briefly overview critical issues in racial and ethnic relations from a global context. Three hours lecture per week. Prerequisite: Introduction to Sociology (SOCI 101) or permission of instructor.

SOCI 305 GENDER IN THE MEDIA
Fall/Spring, 3 credit hours
The course will begin by reviewing the components and the basic concepts of mass media. The course will focus on the power of social construction of the mass media in creating appropriate images of masculinity and femininity including sexual orientation. The course will survey the various theoretical traditions coming from sociology, psychology and gender studies exploring gender dynamics as portrayed in the media. The course will examine research exploring the impact and the ideological consequences of the power of the mass media within the arena of gender dynamics. Three hours lecture per week. Prerequisite: Introduction to Sociology (SOCI 101) (with a grade of C or better) and junior level status with a GPA 2.00, or permission of instructor.

SOCI 313 WOMEN AND AGING
Fall/Spring, 3 credit hours
This course provides an extensive exploration of the impact of aging on women. Topics include the social construction of older women; historical and theoretical perspectives on midlife and older women; relationships with family and friends; racial, ethnic, and demographic issues; spirituality; economic issues; and living arrangements and care giving. Three hours lecture per week. Prerequisite: Introduction to Sociology (SOCI 101). Additionally, students must have at least junior level status or permission of instructor.

SOCI 320 SOCIOLOGY OF HEALTH, ILLNESS AND HEALTH CARE
Fall/Spring, 3 credit hours
Using the sociological perspective, this course explores how social factors such as age, gender, social class and race/ethnicity influence personal experiences of health, illness, and health care utilization. This course will challenge assumptions about health, illness and health care. Topics include the social construction of illness and health, a critique of the ‘sick role’, the meaning and experience of disability, chronic pain and chronic illness, an exploration of health care systems in the developed and developing worlds, and the challenges and opportunities facing both consumers and providers of health care in the 21st century. Three hours lecture per week. Prerequisite: Junior level status; Introduction to Sociology (SOCl101) or Introduction to Gerontology (HUTH 104 / SOCl104) or permission of instructor.

SOET 101 INTRODUCTION TO COMPUTER USAGE FOR TECHNICIANS
Fall/Spring, 1 credit hour
This course introduces students to the Windows operating environment including creating and manipulating files and folders. Topics pertaining to word processor, spreadsheet and presentation software will be introduced with laboratory assignments and instruction oriented toward meeting the academic & career needs students seeking certain A.A.S degrees and Certificates. Two hours per week in a computer classroom.

SOET 116 INTRODUCTION TO COMPUTER AIDED DRAFTING AND DESIGN
Fall, 2 credit hours
This course introduces the student to the use of a computer to produce engineering drawings. Students shall learn fundamentals of AutoCAD software (most current version). Other topics covered in the course include Orthographic Projection, National Drafting Standards and Conventions, Detail Drawings, Assembly Drawings, Architectural, Constructions, Electrical, PLMG/HVAC and Civil CADD topics. Four hours laboratory per week.

SOET 250 INTRODUCTION TO 3D CAD AND BIM
Fall, 2 credit hours
This course introduces students to commercial construction drawings using object based CADD/ REVIT software used by engineers, architects and designers also known as Building information Modeling (BIM). Produce plans, sections elevations, 3D models, quantities, and other data which are fully coordinated and can be readily manipulated, accessed and shared. In addition BIM allows students to perform design tasks, query quantities and take-off, and generate drawing sheets for construction documentation needs. Two, two-hour laboratories per week.

SOET 348 ENGINEERING SAFETY
Spring, 1 credit hour
This course covers topics such as: The basic hazards and preventative measures from falls, mechanical injuries, heat and temperature, pressure, electricity, fires, explosions, toxic materials, radiation, vibration, noise, and computer safety. One hour lecture per week. Prerequisites: Student should be in his/her second year, or permission of instructor.

SOET 361 PROJECT MANAGEMENT
Fall, 3 credit hours
This course is an introduction to projects and project management as it pertains to Industry. Students will be introduced to principles of project selection, project planning & scheduling, duties of a project manager, project organization, implementation and termination. Three hours of lecture per week. Prerequisites: Junior standing or permission from instructor.
SOET 370
ENGINEERING PROJECT ANALYSIS
Fall/Spring, 3 credit hours
This course will focus on engineering project analysis of plans, design, and systems, including taking no action, in consideration of life cycle costs, user costs, and cash flow. Each engineering project will consider cost of funds (interest) depreciation, amortization, salvage value, taxation, capital cost, operational and maintenance costs. Evaluations of uncertainties are also considered on a probabilistic basis. Analysis techniques include parameter estimating, benefit/cost analysis, compound interest calculations and probabilistic modeling. Applications to actual manufacturing, construction, and software case histories are stressed throughout the course. Three hours lecture per week. Prerequisites: College Algebra (MATH 121) or permission of instructor.

SOET 373
MANAGEMENT TELECOMMUNICATIONS
Spring/Fall, 3 credit hours
This course provides the student with opportunity to learn both voice and data communications, why companies and corporations feel that telecommunications is vitally important as well as how the regulatory environment affects the telecommunications industry. The technology is explained in an easy to understand, yet thorough, manner. Current and emerging technologies, the International Organization for Standardization, how telecommunications works, and how it is designed and managed, are covered. The student will learn why it is necessary to manage telecommunications, the functions of the telecommunications department, issues that telecommunications managers will be dealing with, and case studies. Three hours lecture per week. Prerequisites: student should be junior level status or permission of instructor.

SOET 377
ENGINEERING TECHNOLOGY ISSUES
Fall, 1 credit hour
This course extends the student analytical skills to moral deliberation. Topics covered include: Engineering codes of ethics, Responsibility in engineering, The social and value dimensions of technology, Trust and reliability, Engineers in Organizations, Engineers and environment, International engineering professionalism, Global issues, and respect for diversity. One hour lecture per week. Prerequisites: Oral & Written Expression (ENGL 102) or permission of instructor.

SOET 410
ENGINEERING TECHNOLOGY SENIOR SEMINAR
Spring, 3 credit hours
This seminar course provides a forum in which students will present project/internship proposals and results to peers and faculty. Practicing professionals may be invited to give presentations on current engineering technology issues facing students upon graduation. This course will serve all students in the Canino School of Engineering Technology’s baccalaureate programs requiring a project or internship and will expose each to the diversity of programs in the School. Three hours lecture per week. Prerequisite: Enrolled in the culminating experience course for major program of study, or permission of instructor.

SOET 430
SYSTEMS ANALYSIS
Fall/Spring, 3 credit hours
This course will enable students to learn and apply the skills a systems analyst needs to improve organizational processes. It will focus on the assessment of the users’ interaction with technology and business functions, and on the analysis of data flow and its conversion into information. The course also explores some concepts of requirements engineering. A familiarity with MS Office (or similar product) is expected. Three hours lecture per week. Prerequisites: Junior/Senior level status and GER1 (math) or permission of instructor.

SPCH 104
INTRODUCTION TO SPEECH
Spring, 3 credit hours
This course is an introduction to the principles of Effective Speech Communication. It includes techniques of audience analysis, establishing credibility as a speaker, planning, organizing and researching material, and delivery of language. Both informative and persuasive speaking are covered. Three hours lecture per week.

SMPT 202
SPORT IN SOCIETY
Fall/Spring, 3 credit hours
This course examines sports using the sociological perspective. The course will focus on current and past issues within the sociology of the sporting landscape. Students will utilize critical thinking skills, past research and theories to examine the role of sports as a key social institution that influences and is influenced by the larger society. Three hours lecture per week.

SMPT 203
LEADERSHIP FOR SPORT PROFESSIONALS
Fall, 3 credit hours
This course will first introduce students to theories, approaches, and styles of leadership, as well as, the role that ethics and ethical decision making play in shaping leader behavior. Students will analyze leadership practices within different sport settings. Case studies of sport leaders from multiple sport levels and structures will be used to examine best practices in sport leadership. Critical issues in sport leadership such as gender and ethnicity will be examined as well. Students will also begin to explore their own leadership thoughts and tendencies and emphasis will be placed on the promotion of personal leadership development with a focus towards successful sport leadership. Three hours lecture per week. Prerequisites: Foundations of Sport Management (SMPT 101) or permission of instructor.
SPMT 304
LEGAL ISSUES IN SPORT
Fall/Spring, 3 credit hours

This course is designed to introduce students to legal applications within the sport industry. Through the use of case studies, an in-depth look at amateur and professional sports legal issues, such as due process, anti-trust, free speech, duty of care, care owed to athletes and spectators, injuries, assumption of risk, contributory negligence, Title IX, contracts, tort law, and the growing instance of violent acts or as a result of sporting events. Three hours lecture per week. Prerequisites: Business Law 1 (BSAD 201) or permission of instructor.

SPMT 305
SPORTS FINANCE
Fall/Spring, 3 credit hours

This course deals with the importance of finance and accounting theory within the sport industry. Students will explore elements that influence the financial world then apply such elements to the specific sport business world. From case studies, this course will examine business structure, sources of capital and financial management in the unique business environment of professional and college sports. Three hours lecture per week. Prerequisites: Introduction to Business (BSAD 100) and Introduction to Finance (FSMA 210) or permission of instructor.

SPMT 306
SPORTS OPERATIONS AND FACILITIES MANAGEMENT
Fall/Spring, 3 credit hours

This course familiarizes students with the scope and functions of operating and maintaining sport and recreation facilities. The course will provide the framework for students to learn the management, organizational tasks, and laws and guidelines required for successful and safe operation of stadiums, golf courses, aquatic centers, ski areas, playing fields, ice arenas and other sport and recreation venues. Three hours lecture per week. Prerequisites: Human Resource Management (BSAD 310), Leadership for Sport Professionals (SPMT 203), Principles of Management (BSAD 301) or permission of instructor.

SPMT 307
SPORTS MARKETING
Fall/Spring, 3 credit hours

This course examines the various techniques and strategies used in meeting the wants and needs of consumers in the sports industry. The course also makes a comparison between sports marketing and traditional marketing. Students will learn about the importance of market research and segmentation in identifying the right sports consumer. Students will also learn about how data-based marketing can be used to connect them with the sports consumer and the development of sponsorship and endorsement packages. Three hours lecture per week. Prerequisites: Foundations of Financial Accounting (ACCT 101) and Expository Writing (ENGL 101), or junior level status, or permission of instructor.

SPMT 308
SPORT EVENT MANAGEMENT
Fall/Spring, 3 credit hours

This course will focus on the fundamentals of sports events management at multiple levels – recreational, college, and professional. Components will include program planning, organization, budgeting, marketing, risk management, staffing, conducting the event, program evaluation, and other factors associated with successful management of sport events. Students will be responsible for the management of at least one college sport event on campus. Three hours lecture per week. This course is designed to run con-current with Sports Marketing (SPMT 307). Prerequisites: Sports Operations and Facilities Management (SPMT 306) or permission of instructor.

SPMT 309
SPORTS GOVERNANCE
Fall/Spring, 3 credit hours

This course is an examination of governance structures within professional and amateur sport organizations. Students will explore policy elements and issues within scholastic, amateur, campus recreation, intercollegiate athletics, professional sport (North American and International), and Olympic sport. This course will examine the mission, structure and function of sport governing bodies such as the NCAA and NAIA in Intercollegiate Athletics, Players Associations in Professional Sports, and the IOC, NOC’s and OGOC’s in Olympic sport. Three hours lecture per week. Prerequisites: Introduction to Business (BSAD 100) and Foundations of Sports Management (SPMT 101) or permission of instructor.

SPMT 410
ORIENTATION TO CULMINATING EXPERIENCE IN SPORT’S MANAGEMENT
Fall/Spring, 1 credit hour

This course prepares the student for their internship or senior project in sport management. Through participation in this course, creating a mock internship and fulfilling the paperwork process will provide the student with the practical experience necessary to successfully apply for and complete their capstone internship. Alternatively, if the student chooses the senior project route, the course will provide them with the collaboration with their advisor and classmates that will create the foundation for, and plan of, what is to be accomplished in satisfaction of the requirements for completion of the senior project. One hour lecture per week. Prerequisites: Senior level status in SPMT and completion of required Sport Management courses through semester six, or permission of instructor.

SPMT 411
SPORTS PUBLIC RELATIONS
Fall/Spring, 3 credit hours

This course focuses on the application of media relations, communications, sport marketing, and demographic concepts in a sport organization. Students will develop a sport public relations campaign that will utilize various broadcast, electronic, and print media. Students will learn how to generate and run focus groups, as well as generate media packets, press releases, and presentation of their public relations campaign. Three hours lecture per week. Prerequisites: Sports Operations and Facilities Management (SPMT 306), Sports Marketing (SPMT 307), Sports Event Management (SPMT 308), or permission of instructor.

SPMT 412
SPORTS SALES AND SPONSORSHIPS
Fall/Spring, 3 credit hours

In this course students will learn techniques and strategies for enhancing and expanding sport sales and sponsorships. Students will examine the sport sales process and compare the strengths and disadvantages of various selling strategies and methods. Sponsorship opportunities will be reviewed and students will learn key elements of sport sponsorship sales, implementation and evaluation. Three hours lecture per week. Prerequisites: Sports Marketing (SPMT 307) or permission of instructor.

SPMT 413
CONTINUING ISSUES IN COLLEGE SPORTS ADMINISTRATION
Fall, 3 credit hours

Using a seminar format, this course will study the enterprise of college athletics in the United States. Primary focus, discussion and research will center on current contemporary issues in college athletics including but not limited to gender equity & Title IX, graduation rates, recruitment ethics, hazing, drug testing, pay for play, diversity in coaching, financial issues, student-athlete behavior, and academic reform and how these issues impact the function, management and leadership of intercollegiate athletic programs. Three hours lecture per week. Prerequisites: Senior level status in SPMT or permission of instructor.

SPMT 414
LABOR RELATIONS IN SPORT
Fall/Spring, 3 credit hours

This course is an examination of labor markets in sport and the infrastructural interests of management (league and teams) and players (players associations, players, agents/attorneys). Students will review collective bargaining agreements and evaluate the impact of salary caps, free agency and athlete compensation frameworks. This course will examine athlete salaries and agent representation and the unique labor markets of Major League Baseball and the National Football League. Three hours lecture per week. Prerequisites: Legal Issues in Sport (SPMT 304), Human Resource Management (BSAD 310), or permission of instructor.

SPMT 421
SPORTS MANAGEMENT INTERNSHIP
Fall/Spring, 9-15 credit hours

The internship for sport management students provides a structured opportunity to apply theories, concepts, and skills learned in the classroom in a sport management/industry setting. The internship is individualized based on the career interests of the
Course Descriptions: SPORTS MANAGEMENT, SOCIAL SCIENCE

Student and the specific needs of the organization. Internship proposals are presented and approved prior to registration for the course. 360–600 hours work per semester. Prerequisites: Orientation to Culminating Experience in Sports Management (SPMT 410), completion of all other professional content courses required for degree, or permission of instructor.

SPMT 422
SPORTS MANAGEMENT SENIOR PROJECT
Fall/Spring, 3, 6, 9, 12, or 15 credit hours
This course is an alternative to SPMT 421 for students unable to complete a 15-credit internship. Students complete a senior research project specifically addressing a critical issue in a sport management setting or germane to a sports profession. Under the guidance of a faculty mentor, the student submits a research proposal, conducts research, prepares a thesis style report, and presents a defense to a thesis committee. Length and depth of the project dependent upon credit value. 112.5–562.5 project hours per semester. Prerequisites: Orientation to Culminating Experience in Sports Management (SPMT 410), completion of all other professional content courses required for degree, or permission of instructor.

SSCI/ABAP 135
PARENTING KNOWLEDGE AND SKILLS
Fall/Spring, 3 credit hours
This course examines the application of the natural science and technology of behavior to improvements both in knowledge of parenting and in child rearing skills. The range of advances in behaviorally-based child rearing practices discovered since the 1950’s is covered after reviewing scientifically uninformed practices used earlier. Behavior management-related skills for application in everyday public and personal situations involving children and their caregivers is included. Three hours lecture per week.

SSCI 181
ALCOHOL, DRUGS, AND SOCIETY
Fall/Spring, 3 credit hours
GER 3
This course examines the various theories and models of drug abuse and addiction. The pharmacology of drugs and alcohol and the behavioral and social consequences of drug abuse are studied. Students will have an opportunity to explore the scope of and impact on American Society by the abuse of alcohol and drugs. Topics will include: the impact on family systems, treatment, prevention and social control and public policy in the United States. Three hours lecture per week.

SSCI 221
INTRODUCTION TO CHINESE HISTORY AND CULTURE
Fall/Spring, 3 credit hours
GER 6
This course introduces students to the major aspects of Chinese history and culture. The broad outlines of the interaction between history and culture are developed through coverage of the major Chinese dynasties together with coverage of the influence of Chinese literature, language, and art, in the context of current social life. Three hours lecture per week.

SSCI 223
CHINESE CULTURAL EXPERIENCE
Summer, 3 credit hours
Students will spend three weeks traveling to sites of cultural and historical interest in China (Xi’an and Beijing) and meeting with students and faculty at Chinese universities as well as local populations. They will learn about language, literature, fine arts, and ancient and modern historical trends and events. All instruction will be given in English. Students will also produce several writings about their experiences, including an introductory essay which will discuss their preconceptions about China, journals which record specific experiences and impressions, and a final essay in which they will synthesize their preconceptions with their experiences, discuss information they have assimilated, and explain how their views have changed as a result of the experience. Students will spend approximately one week in and around Beijing and approximately two weeks in and around Xi’an. Thirty-six hours lecture, thirty-two hours laboratory (lecture and tours) plus individual cultural interaction. Prerequisite: Introduction to Chinese History and Culture (SSCI 221) or permission of instructor.

SSCI 271
CONTEMPORARY GLOBAL ISSUES
Fall/Spring, 3 credit hours
GER 6
This course introduces the students to global economic and political issues. The primary focus is on the global interplay between the changing resource base, dynamics of needs and concerns of human beings, and the economic, social, and political systems. The intent is to examine the extent to which our economics, social and political systems are successfully adjusting to changes in the underlying natural resource base (ecology), and contributing toward global sustainability of modernization and development. Specific topics covered each semester may vary. Three hours lecture per week.

SSCI 275
INTRODUCTION TO UKRAINIAN CULTURE AND HISTORY
Fall/Spring, 3 credit hours
GER 5
Introduction to major aspects of Ukrainian culture and history. Cultural topics related to family, religion, population demographics, government, arts, music, literature and education will be included. Contemporary life in Ukraine and the broad sweep of historical forces contributing to today’s culture will be the focus of the course. The recent events in Ukraine will be discussed, such as the election of October-December 2004 and the “Orange Revolution.” Ukraine gained its independence in 1991 and is fiercely proud of this independence from the Soviet Union. Three hours lecture per week.

SSCI 315
DEATH, DYING, AND BereAVEMENT
Fall/Spring, 3 credit hours
This course is designed to present various ways in which social science views the human experience of death, dying, and bereavement. Drawing from sociology and psychology, this course will introduce macro and micro level theories and associated concepts. Micro-level concepts and theories about the interaction patterns between the dying patients and the family, medical staff and others involved will be examined. Also discussed will be: societal (or macrolevel) theories of social change, the ethical problem of euthanasia, and the needs of the dying; the biological, social, and psychological factors in the lengthening of life; and the consequences of death, dying, and bereavement. Cross-cultural experiences with these phenomena will also be examined. Three hours lecture per week. Prerequisites: Introduction to Psychology (PSYC 101) or Introduction to Sociology (SOCI 101) and 30 credit hours, or permission of instructor.

SSCI/HEFI 370
RESEARCH METHODS IN THE SOCIAL AND HEALTH SCIENCES
Fall/Spring, 3 credit hours
This course provides and intense comprehensive study of the scientific research process utilized in the social and health sciences. Students will be trained to be critical consumers of published research and will be expected to complete a research project. Topics that will be covered include the underlying theory of research; data management and presentation. Three hours lecture per week. Prerequisite: Introduction to Psychology (PSYC 101), or Introduction to Sociology (SOCI 101), or Introduction to Science and Technology of Behavior (SSCI 245), or Principles of Macroeconomics (ECON 101), or Principles of Microeconomics (ECON 103); Statistics (MATH 141) or equivalent course work, and Expository writing (ENGL 101) or Oral and Written Expression (ENGL 102, or permission of the instructor. Additionally, students must have at least junior level status or permission of the instructor.

SSCI 291-295, 391-395, OR 491-495
SPECIAL TOPICS IN SOCIAL SCIENCE
Fall/Spring, 1–4 credit hours
An introductory or more advanced exploration of subjects not covered or only partially covered by other courses in any social science discipline. The course is specified in the semester class schedule. The course will address topics which require a broader scope or an examination in greater depth. Providing a different topic is selected, the student may take this course twice for credit.

TMMA 310
ENERGY MANAGEMENT
Fall/Spring, 3 credit hours
Energy Management is an overview course on managing energy use in buildings. Topics include energy audits, energy bills, economic analysis, and specific energy saving techniques. Three hours lecture per week. Prerequisites: Business Calculus
Course Descriptions: VETERINARY

(MATH 150), General Physics II (PHYS 102) or permission of instructor.

VAST 105 VETERINARY ASSISTING
Spring, 1 credit hour
This course provides students with an understanding of the roles of all members of the veterinary health care team and the knowledge and skills necessary to assist veterinarians and veterinary technicians in the practice of their professions. It instructs students in proper basic care and husbandry of animals as well as the monitoring of general animal health indicators. It emphasizes the proper handling and restraint of animals for examinations and medical procedures. Care of veterinary supplies, equipment and facilities will also be covered, with an emphasis on meteclaneous disinfection, sterilization and infection control measures. Three hours laboratory per week. Prerequisite: enrollment in the Health Science Career Studies Certificate and successful completion of Medical Terminology of Disease (HALTH 200) or permission of instructor.

VSCT 100 HUMAN COMPANION ANIMAL BOND
Fall, 1 credit hour
The Human Companion Animal Bond course is an interdisciplinary approach to understanding human-animal relationships. Topics include mechanisms of attachment, social and psychological aspects of human-animal interactions, pet loss and bereavement, physical and mental health benefits of animals, and animal assistance therapy programs. Major focus will be on developing the student's interdisciplinary knowledge and understanding of the issues surrounding animals in society. Two hours laboratory per week.

VSCT 101 FUNDAMENTAL VETERINARY NURSING SKILLS I
Fall, 2 credit hour
This course introduces students to the Veterinary Technology profession and fundamental animal care nursing skills. Students learn how to properly restrain cats and dogs, administer parenteral injections on models, take a patient history, complete medical records, conduct a physical examination, and perform clinical procedures related to primary patient care. Students also learn to identify cat and dog breeds and surgical instruments. Competencies related to basic nursing care are conducted at the end of the course. Course is limited to freshman students in the Veterinary Science Technology curriculum. One hour lecture, two hours laboratory per week. This course is a prerequisite to all other required VSCT courses. Prerequisites/corequisites: College Biology I (BIOL 150), College Chemistry I (CHEM 150), Introduction to Animal Agriculture (VSCT 103), or permission of instructor.

VSCT 102 COMPANION ANIMAL BEHAVIOR
Spring, 2 credit hours
This course is designed to help veterinary technicians gain insight and understanding into normal canine and feline behavior. The first unit of the course explores canine behavior, discussing such topics as domestication, social behavior, communication, and principles of learning. The second unit investigates feline behavior, and includes such topics as feline domestication, social behavior and communication. Students learn how to take a behavioral history, analyze problem behavior, perform appropriate behavior modification techniques, and educate clients on common pet behavior problems. Two hours lecture per week. Limited to veterinary science students.

VSCT 103 INTRODUCTION TO ANIMAL AGRICULTURE
Fall, 2 credit hours
An introductory course designed to familiarize the student with the use of animals to produce food, fiber, or profit. Beef cattle, dairy cattle, horses, sheep, swine, goats, and other animals will be discussed. The intent of this course is to provide the student with insight as to the functions and needs of the animal owner/producer. Common production schemes, terminology, and animal breeds will be addressed. Two hours lecture per week.

VSCT 104 VETERINARY OFFICE PRACTICES
Spring, 1 credit hour
This course introduces basic veterinary office practices that would be expected of a graduate veterinary technician. The course covers business and professional skills such as: record keeping, scheduling appointments, professionalism and client communication. This course also provides hands-on experience with current veterinary practice software. Two hours laboratory per week.

VSCT 112 VETERINARY CLINICAL PATHOLOGY I
Spring, 3 credit hours
An introduction to Veterinary Clinical Pathology as it relates to normal and abnormal physiology of animal species. Emphasis will be placed on techniques and sample handling rather than diagnosis. This course includes instruction in general laboratory equipment and the proper preparation of biological samples. Students will learn basic diagnostic techniques that include complete blood count, urinalysis, and examination of feces for internal parasites. Enrollment limited to Veterinary Science Technology students. Two hours lecture, two hours laboratory per week. Prerequisite: Fundamental Veterinary Nursing Skills I (VSCT 101) or permission of instructor.

VSCT 114 ANIMAL ANATOMY AND PHYSIOLOGY
Spring, 3 credit hours
An introduction to the fundamental understanding of animal structure and function. Emphasis placed on the practical aspects of anatomy and physiology of different species. Discussion will include tissues, organs, and body systems which make up the living mammalian organism. Two hours lecture, two hours laboratory per week. Enrollment limited to Veterinary Science students. Prerequisite: College Biology I (BIOL 150), Fundamental Veterinary Nursing Skills I (VSCT 101), or permission of instructor.

VSCT 115 FUNDAMENTAL VETERINARY NURSING SKILLS II
Spring, 2 credit hour
This course is a continuation of material and information covered in Fundamental Veterinary Nursing Skills I. Students will review and perform handling and restraint techniques on dogs and cats, and will recognize, handle, and discuss husbandry of birds, small mammals, and selected exotic species. Students will discuss instrumentation and restraint techniques for horses and livestock. Students will perform nursing procedures including diagnostic techniques, wound care and management, more advanced therapeutic procedures and injection techniques. Management and communication skills as well as client education will be further developed. One hour lecture, two hours laboratory per week. Prerequisite: Fundamental Veterinary Nursing Skills I (VSCT 101) or permission of instructor. Enrollment limited to Veterinary Science students.

VSCT 116 COMPETENCY SKILLS FOR VETERINARY TECHNICIANS
Fall, 1 credit hour
This course is provided to students enrolled in the SUNY Canton/Adirondack Community College Articulation in Veterinary Science. Enrollment is limited to these students only. Students will review material and techniques taught in the Veterinary Science courses from Adirondack Community College. Students will also be introduced to laboratory protocols and kennel procedures used at SUNY Canton in an effort to help ensure their success in the Veterinary Science program. Three hours lecture per day for one week. Prerequisite: Successful completion of all courses in the first two semesters at Adirondack Community College Veterinary Science program as described in the articulation agreement. Enrollment limited to Veterinary Science students.

VSCT 202 VETERINARY CLINICAL PATHOLOGY II
Fall, 3 credit hours
A course of continued study (Veterinary Clinical Pathology I) dealing with diagnostic laboratory procedures and their correlation with pathological conditions. Laboratory practice in hematology, chemistry, parasitology, urinalysis, etc., of all the domestic species of animals. Limited to Veterinary Science Technology students who have satisfactorily completed the course Veterinary Clinical Pathology I (VSCT 112). Two hours lecture, two hours laboratory per week.
VSCT 203
SMALL ANIMAL MEDICINE AND THERAPEUTIC TECHNIQUES
Fall, 3 credit hours
This course is designed to introduce the student to many of the common procedures performed by Licensed Veterinary Technicians in a small animal clinic situation. The student will be instructed on many of the common canine and feline diseases and will become familiar with the signs, therapeutic treatments, and methods of prevention. Small animal zoonotic diseases will be discussed to familiarize the student with topics that veterinary practices are frequently called upon to answer. The student will demonstrate how to perform multiple techniques such as intravenous catheter placement, cystocentesis, the care and wrapping of surgical instruments, and stomach tube placement. Enrollment limited to Veterinary Science Technology students. Two hours lecture, two hours laboratory per week. Prerequisites: Fundamental Veterinary Nursing Skills I (VSCT 101), Veterinary Clinical Pathology I (VSCT 112), and Fundamental Veterinary Nursing Skills II (VSCT 115), or permission of instructor.

VSCT 204
LARGE ANIMAL MEDICINE AND THERAPEUTIC TECHNIQUES
Fall, 2 credit hours
This course is designed to prepare the Veterinary Science student for a role in a large animal veterinary practice. The course includes records and legal forms commonly associated with large animal practice. Students will learn and practice skills associated with assisting the large animal practitioner. Presented material will focus upon areas of technician responsibility in the facility operations and management and methods for relieving the doctor of the more routine duties in favor of professional functions. Enrollment limited to Veterinary Science Technology students. One hour lecture, two hours laboratory per week. Prerequisites: Fundamental Veterinary Nursing Skills I (VSCT 101), Veterinary Clinical Pathology I (VSCT 112), and Fundamental Veterinary Nursing Skills II (VSCT 115), or permission of instructor.

VSCT 205
RADIOGRAPHIC TECHNIQUES
Fall, 2 credit hours
This course is designed as an introduction to radiological techniques. Students will be required to position patients, calculate exposure values, expose radiographic film, and process films both manually and automatically. Students will examine radiographs taken by their groups and critique them for their diagnostic quality. Students will be instructed on radiation hazards and how to avoid them. Enrollment limited to second year Veterinary Science Technology students. One hour lecture, two hours laboratory per week. Prerequisites: Fundamental Veterinary Nursing Skills I (VSCT 101), Animal Anatomy and Physiology (VSCT 114), and Fundamental Veterinary Nursing Skills II (VSCT 115), or permission of instructor.

VSCT 206
ANESTHETIC PRINCIPLES
Fall, 3 credit hours
An introduction to anesthetic principles as they relate to animal medical and surgical care. The student will be presented with information on basic preanesthetic agents, anesthetic agents, and anesthetic monitoring devices. The students will have hands-on experience with preanesthetic, anesthesia, and postanesthetic evaluation/monitoring techniques and devices. Students will be presented with the potential human and animal hazards associated with anesthetic drugs. CPR and the recognition and treatment of emergency situations will be addressed. In the laboratory, the student will medicate patients with many of the commonly used anesthetic drugs and compare/contrast their effects. Enrollment limited to Veterinary Science Technology students. Two hours lecture, two hours laboratory per week. Prerequisites: Fundamental Veterinary Nursing Skills I (VSCT 101), Veterinary Clinical Pathology I (VSCT 112), and Fundamental Veterinary Nursing Skills II (VSCT 115), or permission of instructor.

VSCT 207
HEALTH AND DISEASE OF FARM ANIMALS
Fall, 3 credit hours
This course will acquaint students with the causes, development, control, eradication, and prevention of diseases of economic importance to the farm animal owner. Three hours lecture per week. Prerequisite: College-level biology or permission of instructor.

VSCT 210
VETERINARY MICROBIOLOGY
Spring, 3 credit hours
The focus of this course is the isolation and identification of pathogenic organisms encountered in animals and the diseases that they cause. Two hours lecture, two hours laboratory per week. Prerequisites: Microbiology (BIOM 209), Veterinary Clinical Pathology I (VSCT 112) and Veterinary Clinical Pathology II (VSCT 202), or permission of instructor.

VSCT 211
ANIMAL HOSPITAL PRACTICES AND PROCEDURES
Spring, 3 credit hours
This course is considered the capstone course for the Veterinary Science Technology curriculum and is only open to students in their last semester of the program. This class creates an environment similar to that of a working veterinary practice and allows students to practice and further enhance the skills necessary for a licensed veterinary technician. During each class meeting, students are required to write graded assignments. They will also complete longer reflective papers as part of the semester assignment. Students are also required to research a case study and prepare a written reference paper and deliver an oral presentation using PowerPoint. During the laboratory, in small group settings, students perform standard duties of a veterinary technician in simulated conditions of a working veterinary practice. Skills reinforced include: surgical assisting, anesthesiology and patient monitoring, radiology, office procedures, and client relationships, record keeping and laboratory testing. Students enrolling in this class are expected to perform at least two weeks of kennel duty. Enrollment is limited to Veterinary Technology students who have successfully completed all prior veterinary science courses that are required in the AAS program. Students must successfully complete this writing intensive class to comply with the residency requirement. Two hours lecture, two hours of laboratory per week.

VSCT 212
RESEARCH ANIMAL TECHNIQUES
Spring, 1 credit hour
This course is a foundation course in developing skills necessary for employment in an animal research facility. Husbandry and clinical techniques specific to laboratory animals will be discussed. Emphasis will be on providing quality animal care, monitoring the health and well-being of laboratory animals, and understanding ethical issues surrounding animal research. Enrollment limited to Veterinary Science Technology students. Two hours laboratory per week. Prerequisite: Fundamental Veterinary Nursing Skills I (VSCT 101) or permission of instructor.

VSCT 213
PRACTICAL NUTRITION
Spring, 2 credit hours
This course is designed for Veterinary Science Technology majors. It will cover the feeding of animals in health and disease during various stages of the life cycle. Of primary concern will be the dietary management of specific diseases that affect small animals. Two hours lecture per week. This course is only open to fourth semester Veterinary Science Technology students who have successfully completed all prior Veterinary Science courses. Prerequisite: Animal Anatomy & Physiology (VSCT 114), Fundamental Veterinary Nursing Skills II (VSCT 115), or permission of instructor.

VSCT 214
VETERINARY PHARMACOLOGY
Spring, 2 credit hours
This course is designed for Veterinary Science Technology students as an introduction to Pharmacology. The various classes of drugs used in Veterinary medicine will be discussed in regard to use, side effects, contraindications, method of administration, etc. Upon completion of this course, a student should have a working knowledge of the commonly used drugs in a veterinary hospital. One hour lecture, two hours laboratory per week. This course is only open to fourth semester Veterinary Science Technology students who have successfully completed all prior Veterinary Science courses. Prerequisites: Veterinary Clinical Pathology II (VSCT 202), Small Animal Medicine and Therapeutic Techniques (VSCT 203), and Anesthetic Principles (VSCT 206), or permission of instructor.
VSCT 301
VETERINARY HOSPITAL MANAGEMENT I

Spring, 3 credit hours
The purpose of this course is to provide the student with current information in veterinary practice management. Students apply concepts, principles and skills they have learned in previous coursework to situations specific to veterinary practice management. Topics include: veterinary hospital human resource management, management of reception and front desk procedures, veterinary hospital revenue and financial control, management of veterinary medical records, veterinary inventory control, and marketing a veterinary practice. Three hours lecture per week. Prerequisite: at least 20 credits earned in business, accounting, and/or veterinary technology, or permission of instructor.

VSCT 302
VETERINARY HOSPITAL MANAGEMENT II

Fall, 3 credit hours
This course is a continuation of Veterinary Hospital Management I (VSCT 301). It addresses additional topics relevant to practice management such as veterinary hospital design, veterinary equipment acquisition, training and maintenance; insurance and tax compliance for the veterinary facility; and finance and investment of practice profits and employee retirement contributions. The course also addresses the management of specific types of animal care facilities and institutions and how this may differ from that of the conventional companion animal practice. Facilities and organizations such as mobile clinics, large animal practices, feline and exotic animal practices, emergency and specialty clinics, research animal facilities, animal shelters, zoos, and diagnostic facilities are considered. Three hours lecture per week. Prerequisite: at least 20 credits earned in business, accounting, and/or veterinary technology, or permission of instructor.

VSCT 303
ADVANCED VETERINARY NURSING

Spring, 3 credit hours
This course aids students who have already completed basic courses in veterinary technology in developing their knowledge and skills. Companion animal, equine and bovine topics will be covered. Emphasis on specific concepts of intensive care nursing, surgical assisting in advanced or specialized techniques and advanced anesthesia techniques will be covered. Use of electronic equipment used in veterinary diagnoses will be discussed as well as its care and maintenance. Three hours lecture per week. Prerequisite: All Veterinary Science Technology courses required in the AAS degree program or permission of instructor.

VSCT 308
VETERINARY SERVICES MANAGEMENT INTERNSHIP ORIENTATION

Spring, 1 credit hour
This course prepares students for the Internship for Veterinary Services Management, helps each student secure an appropriate internship site, helps students plan appropriate tasks and activities to complete their internships, and establishes a contract between SUNY Canton, the internship site, and the student. One hour lecture per week. Prerequisite: Senior level status in the Veterinary Services Management program or permission of instructor.

VSCT 401
ISSUES AND PERSPECTIVES IN VETERINARY MEDICINE

Fall, 3 credit hours
This writing intensive course allows the student to explore legal, ethical, and ecological issues as they pertain to veterinary medicine and animal industries. Students are required to thoroughly research topics and present their own thoughts and conclusions. Student research, debate, case studies, and other modalities are used. Three hours lecture/recitation per week. Prerequisite: at least 20 credits earned in business, accounting, and/or veterinary technology, or permission of instructor.

VSCT 408
INTERNSHIP FOR VETERINARY SERVICES MANAGEMENT

Spring, 12 credit hours
This course is intended to be a culminating experience for the student, building upon and reinforcing material of previous course work. Working in conjunction with a field supervisor, the student will perform delegated duties associated with those of a veterinary facility manager or administrator. The internship will be individualized according to the career interests of the student and the needs of the supervising organization. Internship assignments may include information gathering, analysis, planning, implementation, evaluation, and other responsibilities. The student must complete 40 hours of internship experience to receive one credit hour of course work (for a total of 12 credits/480 hours). Prerequisite: Senior-level status in the Veterinary Services Management program and all required math, accounting, business, Health Services Management, and Veterinary Science Technology courses required for the program or permission of the Program Director or Dean. Corequisite: Senior Seminar (HSMB 410) or permission of instructor.

WMST 201
INTRODUCTION TO WOMEN’S STUDIES

Fall and Spring, 3 credit hours
This course provides a broad introduction to the field of Women’s Studies. From an interdisciplinary approach, this course explores past and present theories and issues about women including, but not exclusive to, class, race, social justice, emancipation, economics, and education. Through a global perspective, students will be introduced to feminist ideology and methodology, as well as the causes and effects of gender inequality. Three hours lecture per week. Prerequisite: Expository Writing (ENGL 101) or Oral and Written Expression (ENGL 102); 30 credit hours earned; or permission of the instructor.

WMST 401
CAPSTONE PROJECT IN WOMEN’S STUDIES

Fall/Spring, 3 credit hours
In this course, students will complete a senior research paper in the field of Women’s Studies. With the guidance of the Women’s Studies Coordinator and a committee of three faculty, students will complete numerous research components including, but not limited to, a research proposal, a literature review, rough draft, and final product. Three hours lecture per week. Prerequisites: Introduction to Women’s Studies (WMST 201) and twelve credit hours earned toward Women’s Studies Minor or permission of instructor.
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ABOUT SUNY

The State University of New York’s 64 geographically-dispersed campuses bring educational opportunity within commuting distance of virtually all New Yorkers and comprise the nation’s largest comprehensive system of public higher education.

• The State University of New York’s 64 campuses are divided into four categories, based on educational mission, the kinds of academic opportunities available, and degrees offered. They are: Community Colleges, Technology Colleges, Comprehensive Colleges, Research & University Centers.

• The State University of New York offers students a wide diversity of educational options: short-term vocational/technical courses, certificate programs, baccalaureate degrees, graduate degrees and post-doctoral studies. The University offers access to almost every field of academic or professional study somewhere within the system—some 7,669 degree and certificate programs overall.

• With a total enrollment of more than 465,000, students are pursuing traditional study in classrooms and laboratories or are working at home, at their own pace, through such innovative institutions as the SUNY Learning Network and Empire State College.

• The State University’s students are predominantly New York State residents, representing every one of the state’s 62 counties. State University of New York students also come from every other state in the United States, from four U.S. territories or possessions, and 168 foreign countries.

• The State University enrolls one out of three New York State high school graduates, and its total enrollment of 465,000 (full-time and part-time) is approximately 37 percent of the state’s entire higher education student population.

• SUNY students represent the society that surrounds them. In Fall 2009, 20.8 percent of all students were minorities. In Fall 2009, full-time minority faculty members made up more than 12 percent of all full-time SUNY faculty.

• As of Fall 2009, the University numbers 2.5 million graduates on its rolls. The majority of the University’s alumni reside and pursue careers in communities across New York State, contributing to the economic and social vitality of its people, but SUNY also has alumni around the world.

• SUNY is committed to bringing its students the very best and brightest scholars, scientists, artists and professionals. State University campuses boast nationally and internationally-recognized figures in each of the major disciplines. Their efforts are regularly recognized in numerous prestigious awards and honors.

• Students study in campus classrooms and laboratories or work from a distance through the SUNY Learning Network, which provides educational opportunities to more than 70,000 students through 4,000 courses and 60 degree and certificate programs.

• The State University of New York is committed to providing quality education at an affordable price to New Yorkers and students from across the country and the world.

THE BOARD OF TRUSTEES

The Board of Trustees is the governing body of the State University of New York. It consists of 18 members, 15 of whom are appointed by the Governor, by and with consent of the New York State Senate. In addition, the President of the Student Assembly serves as student trustee and the Presidents of the University Faculty Senate and Faculty Council of Community Colleges serve as ex-officio trustees.

Among the authorities of the Board of Trustees is the power to:

• Appoints its own officers, the Chancellor, and System Administration senior staff.

• Appoint the President of each state-operated institution, and approve the appointment of statutory and community college presidents by their respective boards.

• Grant all degrees, diplomas, and certificates for the completion of studies at any state-operated campus, including honorary degrees.

• Regulate the admission of students, and prescribe qualifications for their continued attendance.

• Regulate tuition, fees, and charges; curricula; and all other matters pertaining to the operation and administration of each state-operated campus.

• Establish new campuses.

For additional information about the State University of New York, visit www.suny.edu.
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Established in 1973, the Canton College Foundation, Inc., was founded for the purpose of soliciting and receiving gifts for scholarships, work grants, equipment, and all types of real or personal property to support the College’s mission by promoting progress, encouraging professional growth, and cultivating a sense of community dedicated to the highest quality education.

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LOCAL PROCEDURE

Any person who believes he/she has been aggrieved by the College may file a complaint with the Dean of Students within ninety (90) days of the alleged occurrence or event giving rise to the grievance. Complaints may be made in person, by telephone or in writing. You will be asked to discuss your problem with a responsible college representative, one who may best be able to resolve your concerns. Students are also reminded of specific procedures for filing academic complaints or allegations of sexual harassment found in the Student Handbook.

In response to a written complaint, the College shall investigate the allegations and respond to the grievant in a timely manner. The College may contact the grievant for further information or clarification of the complaint should the need arise. The complaint may be referred to a responsible campus official for resolution; any final determination of a formal complaint will be made by an individual not directly involved in the alleged problem.

No adverse action will be taken by the College against the student or other complainant.

The College will maintain a written record of the complaint and its resolution or disposition, including appropriate documentation, for a period of six years. Such file shall be retained in the Office of the Dean of Students.

If a grievant wishes, he/she may file a formal written complaint with the State Education Department in accordance with their guidelines (see below). An official complaint form and guidelines are available in the Office of the Dean of Students.

STATE EDUCATION DEPARTMENT PROCEDURES

Section 494C(j) of the Higher Education Act of 1965, as amended, provides that a student, faculty member or any other person who believes he/she has been aggrieved by an institution of higher education has the right to file a written complaint.

In New York State, a complaint may be filed by any person with reason to believe that an institution has acted contrary to its published standards or that conditions at the institution appear to jeopardize the quality of the institution’s instructional programs or the general welfare of its students. Any person who believes he/she has been aggrieved by an institution on or after May 4, 1994, may file a written complaint with the Department within three years of the alleged incident.

HOW TO FILE A COMPLAINT

1. The person should first try to resolve the complaint directly with the institution by following the internal complaint procedure listed above. An institution of higher education is required to publish its internal complaint procedure in a primary information document such as the catalog or student handbook. (The Department suggests that the complainant keep copies of all correspondence with the institution.)

2. If a person is unable to resolve the complaint with the institution or believes that the institution has not properly addressed the concerns, he/she may write or telephone the Postsecondary Complaint Registry to request a complaint form. Telephone (212) 951-6493 or write to: New York State Education Department, Postsecondary Complaint Registry, One Park Avenue, 6th Floor, New York, NY 10016.

3. The Postsecondary Complaint Registry Form should be completed, signed, and sent to the above address. The completed form should indicate the resolution being sought and any efforts that have been made to resolve the complaint through the institution’s internal complaint pro-

4. After receiving the completed form, the Department will notify the complainant of its receipt and make any necessary request for further information. When appropriate, the Department will also advise the institution that a complaint has been made and, when appropriate, the nature of the complaint. The complainant will also be notified of the name of the evaluator assigned to address the specific complaint. The evaluator may contact the complainant for additional information.

5. The Department will make every effort to address and resolve complaints within ninety days of receipt of the complaint form.

COMPLAINT RESOLUTION

Some complaints may fall within the jurisdiction of an agency or organization other than the State Education Department. These complaints will be referred to the entity with appropriate jurisdiction. When a complaint concerns a matter that falls solely within the jurisdiction of the institution of higher education, the complainant will be notified and the Department will refer the complainant to the institution in question and request that the matter receive a review and response.

Upon conclusion of the Department’s complaint review or upon a disposition of the complaint by referral to another agency or organization, or to the institution of higher education, the Department will issue a written notice to the complainant describing the resolution of the complaint. The complainant may contact the Department evaluator directly for follow-up information or for additional assistance.
A.A. DEGREE
Associate in Arts degree. A transfer degree requiring at least 45 hours of liberal arts courses. Students in the Liberal Arts and Sciences: General Studies program have an option of enrolling in the A.A. or the A.S. degree program.

A.A.S. DEGREE
Associate in Applied Science degree. A career degree preparing students for employment upon completion of the SUNY Canton program or enrollment in an applied baccalaureate degree. Requirements include at least 20 hours of liberal arts courses while the remaining courses provide the training needed for the student’s chosen career field. Many four-year colleges accept graduates with A.A.S. degrees.

ACADEMIC PROBATION
A designation by the Dean of the appropriate School for a student with less than satisfactory academic progress. Students on academic probation must follow a plan designed to improve their performance.

APPLIED ELECTIVE
A college course outside of the liberal arts and sciences disciplines.

ARTICULATION AGREEMENTS
Formal agreements between SUNY Canton and bachelor degree-granting colleges, community colleges, or high schools describing conditions for transfer such as GPA and program or course requirements.

A.S. DEGREE
Associate in Science degree. A transfer degree requiring at least 30 credit hours of liberal arts courses. The remainder of the courses selected are based on the student’s intended transfer major.

ASSOCIATE DEGREES
Degrees which require a minimum of 60 credit hours (excluding physical education) and may be completed in two years of full-time study.

BACCALAUREATE DEGREES
Degrees which are completed in approximately four years of full-time study, generally including 120 to 128 credit hours. They require two years of study at a transfer college after graduating from SUNY Canton or enrollment in one of SUNY Canton’s baccalaureate degree programs, designed for graduates of an A.A.S. program or freshmen interested in an applied baccalaureate degree.

CERTIFICATE PROGRAMS
Students completing an organized program of courses, approved by SUNY and registered by the State Education Department, are awarded certificate diplomas. These programs develop skills in a particular discipline or occupational specialty. Certificate programs have minimum credit hour and GPA requirements specific to each program. Certificate programs may require some course work in mathematics, humanities, and science.

Local Certificates: SUNY Canton may recognize students who successfully complete a specified sequence or cluster of approved, credit courses by awarding a local certificate of completion. Such awards of themselves are not registered, aid-eligible programs and are not transcripted. Local certificates shall be subject to review and approval by the established faculty governance process for curricular matters.

COURSE OUTLINE
Detailed description and content of a course. Copies are housed in the School Deans’ Offices.

CREDIT HOUR
A semester credit hour is granted for satisfactory completion of one 50-minute session of classroom instruction per week for a semester of fifteen weeks. Semester credit hours are granted for various types of instruction as follows:

1. Lecture/Recitation—A semester credit hour is an academic unit earned for fifteen 50-minute sessions of classroom Instruction.
2. Lab/Practicum - Forty-five 50-minute sessions of such activity would also normally earn one semester credit hour.

Where such activity involves substantial outside preparation by the student, the equivalent of fifteen periods of 100 minutes duration each will earn one semester credit hour.

3. Independent Study - One credit for independent study will be awarded for the equivalent of forty-five 50-minute sessions of student academic activity.

CURRICULUM (also Program or Major)
All courses offered. Also refers to an academic program and the full scope of courses needed to complete it.

DIRECTED STUDY
Constitutes an alternate delivery of a course to be used in the student’s program of study when a particular course is not offered in the semester he/she wishes to take it. The material covered in a directed study course is essentially the same as that covered in the traditional course.

EQUIVALENT CREDIT HOURS
When the content of a course is developmental and not considered college level, equivalent credit hours are earned and are not counted toward degree requirement. They may count toward certificate requirements.

FRESHMAN
A student who has earned 0 - 30 credit hours, all of which must be a part of a degree program offered by the College.

FULL-TIME STUDENT
Anyone enrolled for twelve or more credit hours or equivalent credit in a semester. A typical course load would be 15 credit hours per semester or approximately five courses.

GENERAL EDUCATION REQUIREMENTS
The ten Knowledge and Skills Areas (GER 1-10) and the two Competencies designated by SUNY as required for graduation with a baccalaureate degree. Knowledge and Skill Areas: Mathematics; Natural Sciences; Social Sciences; American History; Western Civilization; Other World Civilizations;
Humans; The Arts; Foreign Language; Basic Communication. Competencies: Critical Thinking and Information Management.

GENERAL ELECTIVE
Any college course may serve as a general elective if it meets the minimum requirements of a curriculum. Exceptions may include physical education courses, equivalent credit courses, or courses designated for a particular program only.

GOOD STANDING
Students who meet the minimum requirements of the Student Academic Re-registration Policy are considered to be students in good standing.

GPA (Grade Point Average)
For each credit hour, points are assigned based on the grade received. This average is calculated by dividing the total grade points earned by the number of credit hours taken.

HUMANITIES
Art; music; foreign languages; philosophy; most 200-level English, media communication, speech, or theater courses; and courses with the prefix HUMA.

INDEPENDENT STUDY
A planned educational process which is available to the student who wishes to broaden his/her educational experience beyond normal course structure and classroom and/or laboratory activity. Independent Study is intended to be an offshoot of an existing course. It provides the student with an opportunity to pursue/research a subject in more depth and in a more independent manner than would be possible in a traditional course. Independent study does not apply to past life/work experiences for satisfactory completion of proficiency or challenge examinations.

JUNIOR
A student who has earned 61 - 90 credit hours, all of which must be a part of a degree program offered by the College.

LABORATORY SCIENCE
Any science course which has a laboratory experience along with lectures. Examples include biology, chemistry, environmental science, and physics.

LIBERAL ARTS ELECTIVE
Any course from the areas of humanities, sciences, mathematics, and social sciences.

LOAD
The total number of credit and equivalent credit courses for which a student has registered. Example: a registration of 9 credit hours and 4 equivalent credit hours equals a load of 13 hours.

MATRICULATION
This is a process that involves application to the College, admission to a specific academic program and enrollment in courses. An advantage of matriculation is that you officially come under the set of regulations described in the catalog in effect at the date of your matriculation. You must be matriculated to receive financial aid.

OCCUPATIONAL
A.A.S. degrees are generally considered occupational degrees. Students in these programs are preparing for a career or job upon graduation from SUNY Canton or to continue in a bachelor’s degree program.

PART-TIME STUDENT
Anyone who is enrolled in fewer than twelve credit hours in a semester.

PEDAGOGY
The science or art of teaching or education.

PREREQUISITE
A requirement that must be met before a student may take a course. Each course description indicates whether there is a prerequisite.

PROGRAM ELECTIVE
A course from a program-related discipline designated by that program. Each degree program specifies the disciplines applicable to that program.

RECITATION
In addition to lectures and laboratories, some courses require a recitation, which is an individual or small group meeting with an instructor.

SENIOR
A student who has earned 91+ credit hours, all of which must be part of a degree program offered by the College.

SOPHOMORE
A student who has earned 31–60 credit hours, all of which must be a part of a degree program offered by the College.

SOCIAL SCIENCES
Anthropology, economics, geography, government, history, psychology, sociology, or political science.

SUSPENSION
Students who do not meet minimum academic requirements for returning and are dismissed from the College for at least one semester.

SUNY
All of the units of the State University of New York, including Canton.

SYLLABUS
A statement of the requirements for a course and the course material to be covered. Each professor should distribute a syllabus in the first week of class.

TRANSCRIPT
An official copy of the permanent record of every course taken and the resulting grades. This permanent record is maintained in the Registrar’s Office.

TRANSFER PROGRAM
Programs which are generally designed for students who want to continue their studies toward a baccalaureate degree. Programs which lead to the A.A. (Associate in Arts) and the A.S. (Associate in Science) degrees transfer easily into B.A. (Bachelor of Arts), B.S. (Bachelor of Science), or B.Tech. (Bachelor of Technology) degrees.

WITHDRAWAL FROM THE COLLEGE
Official notification to the College that a student will not complete the semester. A form obtained at the Registrar’s Office must be completed. Grades of “W” are recorded for all courses in progress at the time of the withdrawal.
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