



# 2023-2024 Academic Programs



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# REQUIREMENTS FOR ADMISSIONS

## Freshmen Admission:

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, or meet certain home-school criteria.

IEP diplomas are not considered.

Students with an IEP diploma must pass a high school equivalency.

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, pattern of course work, etc.). Some candidates will be asked to submit additional criteria, such as an essay, personal statement, or resume.

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

## Transfer Admission:

Applicants who have previously enrolled or taken at least one class at another institution after high school graduation, are considered transfer students. In addition to completing the application for admission, trans-

fer students must also submit an official transcript from every college or university previously attended. Transfer students who have earned less than 24 college credit hours at the time of application will be required to submit their official high school transcript. However, we encourage all transfer students to submit their high school transcript for financial aid requirements. Lack of an official high school transcript on record with SUNY Canton may result in the loss of a financial aid opportunity. Transfer students must meet specific GPA and credit hour requirements for their program of application. All 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 coursework shall be determined by the Coordinator of Transfer Services. A preliminary evaluation notice will be sent via email and credits will be viewable in DegreeWorks. Students are encouraged to contact [transfer@canton.edu](mailto:transfer@canton.edu) with any subsequent questions or concerns regarding their evaluation. Courses completed at another institution transfer only as credits, quality points do not transfer. A letter grade of "D" or better is required for credit, unless specifically stated otherwise.

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

# BACHELOR'S DEGREES

## Agribusiness Management-BBA

### About This Major:

Are you looking for a career in management? Consider Agribusiness Management. Want to explore the potential of food and agriculture industry? Think of Agribusiness as a career option. SUNY Canton's Agribusiness Management BBA degree is designed to create future entrepreneurs, thanks to a rigorous curriculum that focuses on the agriculture and food industry, including modern day farming.

The agriculture industry constantly evolves to meet the changing needs of society. Crop management, production and distribution are all critically important as the world's population continues to grow. Success in the field requires an advanced understanding of technology and entrepreneurship.

### Students will Learn:

- Accounting
- Finance
- Marketing
- Strategy
- Operations
- Human Resources
- Economics
- Ethics
- Communications

### Students In This Major:

- Are educated in all of the functional managerial skills
- Use cutting-edge case studies to hone analytical skills

### Career Opportunities:

The employment opportunities cover a

broad range, including major employers and also entrepreneurship. Graduates are working in:

- Technical sales representatives
- Food brokers
- Accountants
- Financial managers
- Market analysts
- Fruit and vegetable marketing representatives
- Sales managers
- Small animal health care distribution
- International business specialists

### Admission Requirements:

Refer to the table of high school course prerequisites for admission.

- Students must be prepared to take ENGL 101 (Composition and the Spoken Word).
- Transfer students must meet re-registration requirements to be considered for admission.

### Program Requirements:

*Curriculum (2645)*

Semester I	Credits
AGMT 100 Intro. to Agribusiness	3
BSAD 100 Introduction to Business	4
CITA 110 Intro. to Information Tech.	3
ENGL 101 Composition and the Spoken Word (GER 10)	3
FYEP 101 First Year Experience	1
Math. Elective (GER 1) Recommended	
MATH 111	3-4
	17-18
<b>Semester II</b>	
ACCT 101 Foundations of Financial Accounting	4
ECON 101 Macroeconomics (GER 3)	3
ECON 105 Survey of American Economic History	3
MATH 141 Statistics	3
Natural Science (GER 2)	3-4
	16-17

<b>Semester III</b>	
ACCT 102 Foundations of Managerial Accounting	3
ECON 103 Microeconomics	3
BSAD 203 Marketing	3
BSAD 215 Small Business Mgmt.	3
Other World Civilization (GER 6)	3
	15

<b>Semester IV</b>	
BSAD 201 Business Law I	3
FSMA 210 Introduction to Finance	3
Humanities (GER 7)	3
Foreign Language (GER 9) (Spanish recommended)	3
General Elective	3
	15

<b>Semester V</b>	
AGMT 305 Agricultural Policy	3
AGMT 320 Agricultural Markets and Price Analysis	3
BSAD 301 Principles of Management	3
BSAD 310 Human Resource Management	3
ECON 314 Managerial Economics	3
	15

<b>Semester VI</b>	
AGMT 310 Agribusiness Management	3
AGMT 330 Farm Business Mgmt.	3
AGMT 385 Agriculture Law	3
BSAD 322 Advertising and Promotion	3
LEST 388 Environmental Law	3
	15

<b>Semester VII</b>	
BSAD 340 Management Communications	3
BSAD 345 Technological Innovations & Entrepreneurship	3
Program Elective	3
U/L Program Elective	3
U/L Program Elective	3
	15

<b>Semester VIII</b>	
AGMT 410 Internship AND/OR U/L Program Elective(s)	3-12
AGMT 450 Capstone in Agribusiness Management	3
	15

\* *Fulfills writing intensive requirement.*

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

*GER = General Education Requirement  
Upper Level Program Electives: ACCT, BSAD, ECON, FSMA, LEST*

## Applied Psychology-BS

### About This Major:

The Applied Psychology B.S. degree program trains students in the knowledge and skills needed for a rewarding career in the helping professions. This degree prepares its graduates for:

- Non-licensed entry level positions in human and social service settings;
- Advancement from current positions to positions that require a bachelor's degree
- Application to graduate level education in Social Work, Mental Health Counseling, Psychology, Applied Behavior Analysis, and Law, among other disciplines.

### Disclaimer

As with other baccalaureate programs in Psychology, the completion of this baccalaureate degree will not qualify the holder to apply for, be hired for, or perform the duties related to, employment involving the provision of services that may only be provided by licensed psychologists or other licensed mental health professionals with advanced training. Please refer to relevant statutes in the states you may be interested in practicing in.

### Program Options

Our unique approach includes the traditional focus on psychological research and theory in a liberal arts context, but includes a strong, real-world applied focus. The Applied Psychology program at SUNY Canton currently offers:

- B.S. degree
- Double Major option
- Minor option
- Addiction Treatment Training Certificate
- Online, in-person, or combined format

### Career Ready at Graduation:

Our mission is to provide students with the skills needed to help people of diverse backgrounds and with varied life issues.

Students in the Applied Psychology program work with children and families, individuals with developmental disabilities, older adults, and those seeking drug and alcohol services, among others.

Graduates will be prepared to work in a variety of entry-level human service positions - interviewing, problem-solving with other professionals, and providing intervention services under professional supervision.

### Career Opportunities:

According to the U.S. Department of Labor, Bureau of Labor Statistics, employment in entry-level human services jobs requiring a Bachelor's degree is projected to grow faster or much faster than the average for all occupations, with a 10-percent anticipated increase through 2031.

For students who want to go further, we can also prepare you for advanced study in Psychology, Counseling, Human Services, Habilitation and Rehabilitation, and Social Work.

### Admission Requirements:

- High school prerequisites may be found at [www.canton.edu/academics/prerequisites.html](http://www.canton.edu/academics/prerequisites.html)
- Transfer students must have a minimum GPA of 2.0 OR a two-year degree.

### Program Requirements:

*Curriculum (1965)*

PLEASE CONTACT US FOR MOST CURRENT INFORMATION

Required Courses	Credits
Semester I	
HUSV 100+ Human Services Forum .. 1	
ENGL 101+ Composition & the Spoken Word (GER 1 & 2) .3	
PSYC 101+ Introduction to Psychology (GER 7) ..... 3	
General Elective (Math) ..3-4	
HUSV 201+ Intro. to Human Services*. ..... 3	
History Elective (GER 9 or 10)..... 3	
	16-17

Semester II	
ABAP 245+ Introduction to Applied Behavior Analysis ..... 3	
SOCI 101+ Intro to Sociology(GER 7) 3	
PSYC 225+ Human Development ..... 3	
BIOL 101, 117, 150 & Lab+	
Science Elective (GER 5) .4	
Humanities Elec. (GER 6) ...3	
	16

Semester III	
PSYC 275+ Abnormal Psychology. (GER 7) ..... 3	
SSCI 181+ Alcohol Drugs & Society(GER 3) ..... 3	
MATH 141+ Statistics* (GER 4) ..... 3	
General. Elec. (any GER) ..3	
General. Elective..... 3	
	15

Semester IV	
PSYC 308+ Personality and Individual Differences ..... 3	
+ Arts/Language Elective (GER 8 or 11) ..... 3-4	
HUSV 310+ Working in Human Service Agencies ..... 3	
+ Program Elective..... 3	
+ Program Elective..... 3	
	15-16

AS or AA GRAD .... Total Credits: 62-64	
Semester V	
SSCI 370 Research Methods ..... 3	
HUSV 305 Professional & Ethical Responsibilities ..... 3	
PSYC 300 Cultural Psychology (GER 3) ..... 3	
HUSV 315 Mental Health Practice ..... 3	
Program Electives ..... 3	
	15

Semester VI	
PSYC 410 Counseling Skills & Procedures ..... 3	
PYSC 320 Health Psychology ..... 3	
PSYC 315 Crisis Intervention..... 3	
PSYC 340 Social Psychology ..... 3	
Program Elective ..... 3	
	15

Semester VII	
HUSV 421*** Practicum I..... 3	
Program Elective ..... 3	
U/L Program Elective..... 3	
U/L General Elective ..... 3	
General Elective..... 3	
	15

Semester VIII	
U/L Pr. Elective ..... 3	
U/L Program Elective..... 3	
U/L General Elective ..... 3	
General Electives ..... 3	
General Elective..... 3	
	15

BS GRAD Total Credits for Degree 122-124

*L/L Program electives include: ABAP, ECHD, HUSV, PSYC, SOCI, and designated SSCI courses. U/L Program electives include: 300/400 HUSV, PSYC, SOCI, SSCI courses*

*\*MATH 141 is a prerequisite for SSCI 370; may use first semester General Elective for MATH 141 pre-requisite if necessary*

*\*\*Writing Intensive course*

*\*\*\*Applied learning course*

*+Courses to be used to meet Liberal Arts Associate's Degree. Student must take Science with a lab. for the Associate's degree.*

## Civil & Environmental Engineering Technology-B.Tech.

The Civil & Environmental Engineering Technology (C&EET) curriculum provides students with a Bachelor of Technology (BTech) degree that meets the demands of today's industry.

Students receive hand-on training and the background necessary to be competitive and successful in civil and

environmental engineering technology. Flexibility with program electives allows students to study in areas of structural analysis and design, water and wastewater testing and treatment, environmental remediation, geotechnology, construction and project management, surveying, and AutoCADD/REVIT drafting and BIM. Graduates have the opportunity to pursue graduate study.

### Students In This Major:

- Master the knowledge, techniques, skills, and modern tools in civil and environmental engineering technology.
- Select and apply engineering, technology, science, mathematical skills to applications, problems and design.
- Conduct experiments, analyze, interpret, and apply experimental results.
- Have knowledge of construction and earth materials; their properties, use, manipulation, and testing procedures.
- Proficient in common water, wastewater, and soil collection and testing procedures.

### Career Opportunities:

Employment opportunities span the range of industry and commerce.

Opportunities include:

Structural/Environmental/Construction Engineering and Technology, Civil/Environmental Engineer, Engineering Assistant, Structural Design and Detailers, Assistant Project Manager/Engineer/Environmental Engineer, Surveyor, Environmental Technologist, QC Engineering Technologist, Groundwater Engineer, Municipal Water/Wastewater Treatment Plant Operator, Geotechnical Engineer, Construction Project Estimator, Construction Inspectors and Residential & Commercial/General Contractors. Recent graduates have started their career with companies like Kiewit Corporation, Parson, GHD, Atlantic Testing Laboratories, Cives Steel Company and the United States Navy. Graduates have also gone on to graduate school for Master of Science/Engineering degrees in both Civil Engineering and Environmental Engineering.

### Career Outlook

- Employment opportunities for civil and environmental engineering technicians are expected to increase by 6% and 5%, through 2028 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 a related program area will be evaluated and awarded maximum credit. They must have a minimum grade point average of 2.00. Other transfer students will be evaluated on case-by-case basis.

### Program Requirements:

*(Curriculum 2488)*

Semester I	Credit
ENGS 101 Intro to Engineering ..... 2	
SOET 116 Intro to Computer Drafting 2	
CONS 101 Elementary Surveying ..... 4	
MATH 123 Pre-Calculus I ..... 4	
PHYS 121/131 College/Univ. Physics I 3	
PHYS 125/135 College/Univ. Physics I Lab ..... 1	
	16

Semester II	
ENGS 201 Statics ..... 3	
GER (6, 7, 8, 9, 10, 11) 3 ..3	
MATH 161 Calculus I ..... 4	
PHYS 122/132 College/Univ. Physics II 3	
PHYS 126/136 College/Univ. Physics II Lab ..... 1	
ENGL 101 Composition and the Spoken Word ..... 3	
	17

Semester III	
CONS 203 Advanced Surveying..... 3	
ENGS 203 Strength of Materials..... 3	
CONS 275 Strength of Materials Lab . 1	
CONS 280 Civil Engin. Materials ..... 3	
MATH 162 Calculus II ..... 4	
CHEM 150 College Chem. and Lab... 4	
	18

Semester IV	
CONS 216 Soils In Construction <sup>2</sup> ..... 4	
CONS 322 Hydraulics ..... 4	
MATH 364 Differential Equations <sup>1</sup> ..... 3	
Diversity GER (3) <sup>3</sup> ..... 3	
	15

Semester V	
CONS 336 Structural Analysis..... 3	
SOET 250 Intro to 3D CADD and BIM 2	
GER (6, 7, 8, 9, 10, 11) <sup>3</sup> ..3	
CONS Course <sup>4</sup> (CONS 386 or CONS 385) ..... 4	
Program Elec. <sup>6</sup> ..... 3	
	15

Semester VI	
ECON 370 Engineering Economics .... 3	
CONS 274 Construction Mgmt. .... 3	
CONS Course <sup>4</sup> (CONS 387 or CIVL 384)..... 3	
Program Elec. <sup>6</sup> ..... 3	
Design Elective <sup>5</sup> ..... 3	
	16

Semester VII	
SOET 377 Engineering Ethics..... 1	
CONS Course <sup>4</sup> (CONS 386 or CONS 385) ..... 4	
CONS 476 Pre-Capstone ..... 1	
Program Elec. <sup>6</sup> ..... 6	
GER(6, 7, 8, 9, 10, 11) <sup>3</sup> ..3	
	14

Semester VIII	
CONS 477 Capstone Project ..... 3	
SOET 348 Engineering Safety ..... 1	
CONS Course <sup>4</sup> (CONS 387 or CIVL 384) ..... 4	
Program Elec. <sup>6</sup> ..... 6	
	14

Total Required Program Credits = 125

1 Students starting with Calculus I, will take Calculus I, Calculus II, Differential Equations, and a fourth math class of their choosing and with advisement.

2 Writing Intensive

3 GER = General Education Elective.

Students must accomplish 7 separate GER categories: GER 9 6, 7, 8, 9, 10, or 11. One of which must be the Diversity GER (GER 3). Depending on Program Elective selection students may need to take one or more 300/400 level GER courses in order to reach 45 upper division credits.

4 CONS Course: Four (4) courses are required by all students in the program. These courses are: CIVL 384 Engineering Geology, CONS 385 Hydrology & Hydrogeology, CONS 386 Water Quality, and CONS 387 Water & Wastewater Treatment. They are being referred to as CONS Courses because they will be offered on a rotational basis, every other year depending on enrollment.

5 Design Elective: All students must take at least one civil structural design course (CONS 304, CONS 324, or CONS 370).

6 Program Electives: A list of approved Program Electives is provided below. Students wanting to focus more on structural civil engineering technology must take a total of 6 Program Electives and are strongly advised to take CONS 222. Students wanting to focus on environmental engineering technology must take a total of 5 Program Electives, two of which must be CHEM 155 and BIOL 150, and they are strongly advised to take CONS 350 and MATH 141. It's advised that CHEM 155 be taken In Semester 4, if possible, and that BIOL 150 be taken in Semester 5 or sooner if possible. Students must be sure that enough 300/400 level courses are taken to fulfill the minimum requirement of 45 upper division courses. Students focusing on environmental engineering will likely have to take a 300-/400-level GER. Course selection must be under advisement of and with approval of the assigned academic program advisor or department chair.

Approved Program Electives: CIVL 381, CIVL 480, CIVL 3XX, CIVL 4XX, CMGT 200, CMGT 300, CMGT 301, CMGT 304, CMGT 305, CMGT 308, CMGT 322, CMGT 323, CMGT 389, CMGT 403, CMGT 410, CONS 111, CONS 112, CONS 222, CONS 226, CONS 304, CONS 316, CONS 324, CONS 338, CONS 350, CONS 366, CONS 368, CONS 370, CONS 372, CONS 375, CONS 432, CONS 472, CONS 485, CONS 486, CONS 487, CONS 3XX, CONS 4XX, AREA 110, AREA 210, AREA 310, AREA 320, AREA 322, AREA 324, AREA 340, AREA 370, AREA 424, CHEM 155, CHEM 301, CHEM 302, BIOL 150, BIOL 209, EADM 201, ENGS 102, SOET 314, SOET 352, SOET 353, SOET 374, SOET 400, SOET/BSAD 430, LEST 388, MATH 141, MATH 341, MATH 351, MATH 361, MATH 371, MATH 401, MATH 461, MECH 301, MECH 341, MECH 342

NOTE: Civil & Environmental Technology students must meet seven of the ten and have a total of 30 credits for the General Education Requirements. There are a total of 125 program credits.

Student Learning Outcomes can be found at [www.canton.edu/soet/ect/](http://www.canton.edu/soet/ect/).

## Crime Analysis-B.S

The four-year, undergraduate Bachelor of Science in Crime Analysis combines a core concentration in crime analysis with select courses in data analytics, cyber security, and geographic information systems. Through-out this program, students identify solutions to crime problems and learn to formulate crime prevention strategies. Additionally, students learn crime mapping and the application of statistics to understand the techniques available to map crime and provide predictive analytics to criminal justice agencies. Applying spatial analysis and mapping, quantitative assessment, and using standard software packages, individuals who complete the program will be prepared to understand investigative techniques and data in order to provide criminal justice agencies with tactical, operational, and strategic crime analysis products. Students will also be prepared to enroll in and pass the New York State Division of Criminal Justice Services crime analysis certification examination.

### Students In This Major:

- Receive training in spatial & data analysis
- Learn components associated with the NYS crime analysis certification exam
- Complete classes toward a minor, including Forensic Science, Criminology, or Homeland Security

### Career Opportunities:

- Crime Analyst
- Criminal Justice Research Analyst
- Law Enforcement
- Intelligence Analyst
- Criminal Justice Policy Analyst
- Public Policy and Administration

### Admission Requirements:

- Students must be prepared to take Intermediate Algebra (MATH 106).
- Students must be prepared to take Composition and the Spoken Word (ENGL 101).
- Transfer students must have a minimum cumulative grade point average of 2.0 or above.

### Recommended preparatory courses or their equivalencies are:

- JUST 232 Intelligence Analysis
- JUST 233 Crime Analysis
- MATH 111 Survey of Mathematics OR
- MATH 121 College Algebra
- MATH 141 Statistics

## Program Requirements:

(Curriculum 3006)

Semester I	Credits
JUST 233 Crime Analysis .....	3
ENGL 101 Composition & Spoken Word .....	3
MATH Elective (GER 4).....	3
Liberal Arts Elective (GER 7, 8, 10,11) .....	3
American History Elective (GER 9) .....	3
	<b>15</b>

Semester II	Credits
JUST 232 Intelligence Analysis .....	3
CITA 110 Introduction to Info Technology .....	3
MATH 141 Statistics (GER 4).....	3
Natural Science (GER 5) .3-4	
Liberal Arts Elective (Any GER) .....	3
	<b>15-16</b>

Semester III	Credits
GMMD 101 Intro to Media Studies (GER 6) .....	3
Liberal Arts Elective .....	3
Liberal Arts Elective .....	3
DEISJ Elective(GER 3) .....	3
General Elective.....	3
	<b>15</b>

Semester IV	Credits
MATH Math Elective (GER 4).....	3
Liberal Arts Elective .....	3
Liberal Arts Elective .....	3
General Elective.....	3
General Elective.....	3
	<b>15</b>

Semester V	Credits
JUST 421 Cyber Criminology.....	3
JUST 380 Civil Liberties & Homeland Sec. ....	3
Liberal Arts Elective .....	3
Liberal Arts Elective .....	3
General Elective.....	3
	<b>15</b>

Semester VI	Credits
JUST 347 Res Methods in Criminology & CJ .....	3
JUST 314 Ethics in CJ* .....	3
JUST 423 Intelligence Led Policing....	3
U/L Liberal Arts Elective .....	3
U/L Liberal Arts Elective .....	3
	<b>15</b>

Semester VII	Credits
JUST 402 GIS: Crime Mapping.....	3
CYBR 365 Digital Forensic Analysis ....	3
JUST 425 Law Enforce. Intell. Systems	3
Liberal Arts Elective .....	3
Liberal Arts Elective .....	3
JUST 429 Intro to Culm. Exp.....	1
	<b>16</b>

Semester VIII	Credits
LEST 450 Trian Courts & Rules of Evid. ....	3
JUST 430 Culminating Experience in CJ OR (4) U/L Program Electives ....	3-12
	<b>15</b>

Students in the Criminal Investigation, B.Tech. program are required to earn a "C" or better in JUST 430.

\* Fulfills writing intensive requirement.

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

GER = General Education Requirement

NOTE: Crime Analysis students must meet seven of the ten General Education Requirements and have 30 total GER credits.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/ci/](http://www.canton.edu/sci_health/ci/).

## Criminal Investigation-B.Tech.

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 can opt to complete an internship with an agency in the Criminal Justice field or complete 5 Upper Level JUST courses

### Students In This Major:

- Receive advanced training in criminal investigation.
- Learn to analyze forensic evidence, preserve crime scenes, collect and process evidence.
- Complete classes toward a minor, including Forensic Science or Criminology.

### Career Opportunities:

- Police Officer
- Federal law enforcement agencies
- Autopsy Technician/Medical Investigator
- Military police
- Crime Scene Technicians
- Forensic Scientist

### Admission Requirements:

- Students must be prepared to take Intermediate Algebra (MATH 106).
- Students must be prepared to take Composition and the Spoken Word (ENGL 101).
- Transfer students must have a minimum cumulative grade point average of 2.0 or above.

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 OR
- MATH 121 College Algebra

### Program Requirements:

(Curriculum 1359)

Semester I	Credits
JUST 101 Intro. to Criminal Justice ...	3
ENGL 101 Composition & Spoken Word .....	3
MATH Elective (GER)* .....	3
PSYC 101 Introductory Psychology .....	3
Liberal Arts Course(Any GER).....	3
	<b>15-16</b>

Semester II	Credits
JUST 112 Criminal Law & Procedure .	3
SOCI 101 Introduction to Sociology ...	3
Lower Level Program Elective <sup>1</sup> .....	3
Natural Science w/Lab (GER) .....	4

Humanities Elective (GER) .3  
16

**Semester III**

JUST 201 Critical Issues in Crim. Justice\* ..... 3  
JUST 209 Law Enforc. Communications ..... 3  
PSYC 275 Abnormal PSYC OR  
JUST 202 Intro to Forensic Criminology ..... 3  
DEISJ Elective (GER 3) ..... 3  
American History Elective (GER 4) ..... 3  
15

**Semester IV**

JUST 203 Criminal Investigations ..... 3  
JUST 210 Intro. to Forensic Invest. .... 3  
Lib. Arts Elective (any GER) 3  
General Elective ..... 3  
General Elective ..... 3  
18

**Semester V**

JUST 300 Forensic Photography ..... 3  
JUST 303 Investigative Interviews ..... 3  
Upper Level General Elec. .3  
General Elective ..... 3  
General Elective ..... 3  
15

**Semester VI**

JUST 301 Latent Prints and Impressions ..... 3  
JUST 314 Ethics in Criminal Justice<sup>3</sup> OR  
JUST 426 Ethics in Forensic Science<sup>3</sup>.3  
Forensic Science Cluster<sup>4</sup> .... 3  
General Elective ..... 3  
General Elective ..... 3  
15

**Semester VII**

JUST 406 Crime Scene Investigation .3  
JUST 408 The Investigation of Death .4  
JUST 429 Intro. to Culminating Experience<sup>5</sup> ..... 1  
U/L General Elective ..... 3  
General Electives ..... 6  
16

**Semester VIII**

JUST 430 Culminating Experience in CJ OR  
(5) U/L Program Elec. .... 3-15  
15

\* MATH 111 or higher is required – NOTE: If you are enrolling in a course that is a prerequisite for a required course in your program, your TAP eligibility may be affected.  
\*\* Fulfills writing intensive requirement.

\*\* Writing intensive course.

1. Lower Level Program Electives are selected from JUST or EADM (100-200) level courses
2. UL Program Electives are selected from JUST, EADM or LEST (300-400) level courses
3. A student CAN earn credit for both courses but is only required to take one or the other.
4. Choose one from this list: JUST330 Questioned Documents, JUST411 Forensic Drug Analysis and Investigation, JUST412 Firearm and Toolmark ID, JUST413 Methods of Human Skeletal ID
5. This course is only required for students intending to take JUST 430, Culminating Experience, in the 8th semester

NOTE: All newly admitted transfers and freshmen must attain a passing grade of 2.0 or greater to receive credit towards graduation for any UL JUST course.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/ci/](http://www.canton.edu/sci_health/ci/).

## Criminal Justice: Law Enforcement Leadership-B.Tech.

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.
- Qualified students 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 the 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 Intermediate Algebra (MATH 106).
- Students must be prepared to take Composition and the Spoken word (ENGL 101).
- Transfer students must have a minimum cumulative grade point average of 2.0.

## Program Requirements

(Curriculum 1911)

**Semester I Credits**

JUST 101 Introduction to Criminal Justice ..... 3  
BSAD 100 Intro. to Business ..... 3  
ENGL 101 Composition & Spoken Word ..... 3  
MATH 111 Survey of Math or Higher .3  
PSYC 101 Introduction to Psychology .3  
15

**Semester II**

JUST 112 Criminal Law and Procedure ..... 3  
SOCI 101 Introduction to Sociology ... 3  
Amer. History Elec. (GER 9) 3  
Humanities Elec. (GER 6) ... 3  
General Elective ..... 3  
15

**Semester III**

CITA 110 Intro. to Info. Technology ... 3  
MATH 141 Statistics ..... 3  
Natural Sci. w/Lab Elect. (GER 5) ..... 4  
DEISJ Elective (GER 3) ..... 3  
General Elective ..... 3  
16

**Semester IV**

JUST 201 Critical Issues in Criminal Justice \*\* ..... 3  
JUST 207 Police Services ..... 3  
JUST 209 Law Enforcement Communication OR  
BSAD 200 Business Communications .3  
Liberal Arts Elective [GER] .3  
General Elective ..... 3  
15

**Semester V**

JUST 321 Managing Law Enforce. Training ..... 3  
JUST 344 Civil Liability Issues for CJ Admin. .... 3  
BSAD 301 Principles of Management .3  
U/L Program Elective<sup>2</sup> ..... 3  
U/L Program Elective<sup>2</sup> ..... 3  
15

**Semester VI**

JUST 314 Ethics in Criminal Justice OR  
BSAD 319 Professional Ethics ..... 3  
JUST 333 Managing Patrol Functions 3  
U/L Program Elective<sup>2</sup> ..... 3  
U/L Program Elective<sup>2</sup> ..... 3  
General Elective ..... 3  
15

**Semester VII**

JUST 429 Intro to Culminating Experience \* ..... 1  
JUST 449 Current Issues in Law Enforce. .... 3  
JUST 335 CJ Agency Management ... 3  
BSAD 375 Leadership & Decision Making ..... 3  
General Elective ..... 3  
General Elective ..... 3  
16

**Semester VIII**

JUST 430 Culminating Exper. in CJ AND/OR  
U/L Program Electives ... 3-15  
15

\*This course is only required for students intending to take JUST 430 Culminating Experience.

\*\*Writing Intensive course

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

GER = General Education Requirement

Program Electives: JUST, BSAD, or LEST

NOTE: Criminal Justice: Law Enforcement Leadership students must meet seven

of the ten General Education Requirements and have 30 total General Education credits.

NOTE: As of Fall 2013, all newly admitted transfers and freshmen must attain a grade of 2.0 or greater for any Upper Level JUST course to receive credit towards graduation. .

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/lelm/](http://www.canton.edu/sci_health/lelm/).

## Cybersecurity-B.S.

The Bachelor of Science in Cybersecurity program prepares students to assess security needs of computer and network systems, recommend safeguard solutions, and manage the implementation and maintenance of security devices, systems, and procedures. The program includes instruction in computer architecture, programming, and systems analysis; networking; telecommunications; cryptography; security system design; applicable law and regulations; risk assessment and policy analysis; contingency planning; user access issues; investigation techniques; and troubleshooting. The Program of Study (PoS) has been validated by the National Security Agency (NSA) for the National Centers of Academic Excellence in Cybersecurity Defense (CAE-CD) designation.

### 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 security and risk management, asset security, security engineering, communication and network security, identity and access management, security assessment and testing, security operations, and software development security.
- Are encouraged to pursue Cybersecurity internships during their senior year.

### Career Opportunities:

- Cybersecurity Forensic Specialist
- Security Analyst
- Security Auditor
- Security Consultant
- Security Risk Assessor
- Security Manager
- Information Security Officer
- Security Trainer
- Security Systems Designer

### Potential Employers:

- Information Security / Information Technology Companies
- Health Management Services

- Financial Services
- Government
- Education
- Military
- Information Security / Information Technology Departments in any industry

### Admission Requirements:

- Students must be qualified to enter at least College Algebra (MATH 121) and Composition and the Spoken Word (ENGL 101).
- Computer or technology courses are strongly recommended.
- Transfers into this program must have a 2.0 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 2698)

Semester I	Credits
CYBR 152 Computer Logic.....	3
CYBR 165 Survey of Cybersecurity.....	3
ENGL 101 Composition & Spoken Word .....	3
Mathematics Elective <sup>1</sup> .....	3
LA Course (GER 6,7,8,9,10,11) .....	3
	<hr/> 15

#### Semester II

CYBR 170 Comp. Concepts & Oper. Sys.....	3
CYBR 171 Oper. Sys. Use & Administration .....	3
MATH 141 Statistics .....	3
Diversity Elective (GER 3) ...	3
Natural Science Elective (GER 5) .....	3
	<hr/> 15

#### Semester III

CYBR 180 Introduction to Programming .....	4
CYBR 215 Database Apps & Concepts.....	3
CYBR 220 Data Comm & Network Tech.....	3
LA Course (GER 6,7,8,9,10,11) .....	3
LA Course (GER 6,7,8,9,10,11) .....	3
	<hr/> 16

#### Semester IV

CYBR 204 Systems Analysis and Design <sup>2</sup> .....	3
CYBR 250 Information Security.....	3
GER/LA Course.....	3
GER/LA Course.....	3
LA Course.....	3
Program Elective <sup>3</sup> .....	3
	<hr/> 15

#### Semester V

Network Security Cluster.....	3
Data Security Cluster.....	3
MATH 351 Discrete Mathematics.....	3
LA Course .....	3

General Elective.....	3
	<hr/> 15

#### Semester VI

CYBR 352 Ethical Hacking & Pen Testing. ....	3
Network Security Cluster.....	3
Data Security Cluster.....	3
LA Course .....	3
General Elective.....	3
	<hr/> 15

#### Semester VII

CYBR 450 Cyber Security Body of Knowledge .....	3
LA Course .....	3
UL LA Course.....	3
UL LA Course.....	3
UL LA Course.....	3
	<hr/> 15

#### Semester VIII

CYBR 485 Cybersecurity Practice OR UL Program Elective .....	6
UL LA Course .....	3
UL LA Course.....	3
UL General Elective.....	3
	<hr/> 15

*Program Elective-CYBR, CITA, DATA, JUST Seven of ten SUNY GER academic areas and 30 credits of SUNY GER courses must be completed within the first two years of full-time study of the program.*

*Network Cluster-CYBR 354, CYBR 356, CYBR 440*

*Data Security Cluster-CYBR 360, CYBR 365, CYBR 455*

*1 Minimum mathematics requirement is MATH 121 College Algebra.*

*2 Fulfills writing intensive requirement.*

*3 On-campus students are encouraged to take CITA 175, CITA 221, and CITA 441 to fulfill this program elective requirement.*

### Additional Graduation Requirements

To meet graduation requirements, CYBR 450 must have a grade of C or higher. No more than 3 CITA credits with a course number below CITA 150 may be used for credit towards graduation.

### Early Childhood Care & Management-BBA

The Bachelor of Business Administration in Early Childhood Care and Management combines theory and practice for students seeking careers in the childcare field, working specifically with children from infancy - 5 years of age. The degree program prepares students for careers in childcare centers or various early childhood-based businesses and organizations within the early childhood and childcare industry.

Early Childhood upper-level program electives offer content relevant to the professional development and growth of the early childhood educator and early childhood director. Additional courses provide a strong business-focused foundation. Courses include content related to organizational leadership, human resources and fiscal management, small business management and ownership, and leadership.

The Bachelor of Business Administration in Early Childhood Care and Management program is accredited by the International Accreditation Council for Business Education.

### Program Delivery:

The Bachelor of Business Administration in Early Childhood Care and Management can be completed fully online, on campus, or a combination of both. Students can begin enrollment in fall, summer, or spring and attend part or full-time.

### Students In This Major:

- Participate in field-based experiences and internships in various childcare settings, including Head Start Programs, Universal Pre-K, and Kindergarten Public School Classrooms, Child Care Centers, Family Child Care Provider Homes, Nursery, and Pre-School programs, Children's Museums, Libraries, and additional Early Childhood Businesses and Organizations
- Design a final semester of study to include an internship, or capstone project, or enrollment in program electives or a combination of all, based on students' individual future career or academic goals.
- Take part in professional development opportunities offered through courses, conferences, trainings, seminars, and workshops

### Career Opportunities:

- Child Care Center Owner or Director
- Child Care Center Director
- Self Employed Family Child Care Center Provider
- Early Childhood Resources and Referral Agencies
- Early Childhood Trainer or Consultant
- Early Childhood-Based Businesses and Organizations
- Head Start Program Administration
- Children's Museum Educator/Trainer

### Career Outlook:

- According to the U.S. Department of Labor, job opportunities for pre-school and childcare center directors are favorable. \*Employment statistics from Bureau of Labor Statistics 2019-2029, May 2020
- Certification requirements are increasing for Early Care and Education providers. Bachelor's Degrees are necessary to work in lead administrator positions in childcare facilities and Head Start programs.
- Changes in society and the workforce demand an increase in the availability of high-quality early childcare and education options for families and children from infancy to pre-kindergarten.

### Admission Requirements:

Students must meet entrance requirements and be eligible for enrollment in:

- Composition & the Spoken Word (ENGL 101).
- Transfer students must have a minimum 2.0 GPA for admittance to the ECHD major
- Transfer students must meet re-registration requirements to be considered for admission
- 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 BOCES Early Childhood Occupations programs may be eligible for 3-6 college credits toward the Early Childhood Program at SUNY Canton. Refer to the College catalog for a list of BOCES Programs for which we have articulation agreements.

### Program Requirements:

- Students are required to complete mandated trainings offered through NYS Office for Children: Identification of Child Abuse & Neglect and Foundations in Health, Safety & Nutrition [offered online within our courses]
- Early Childhood students must complete a Health Clearance through the SUNY Canton Davis Health Center; have evidence of a recent physical exam, and updated immunizations.
- For off campus field experiences (ECHD 201 and the Internship) residential students will need to arrange for coordination of and/or transportation to their assigned placement sites. Distance students' complete student teaching and internship experiences near their residence and attend seminars virtually.

(Curriculum 2699)

Semester I	Credits
FYEP 101 First Year Experience .....	1
ECHD 101 Introduction to Early Childhood (GER 7) .....	3
ENGL 101 Composition & the Spoken Word (GER 1-2).....	3
PSYC 101 Introduction to Psychology . Science Elec. (GER 5).....	3-4
Diversity: EI & SJ (GER 3)....	3
	<hr/> 16-17

#### Semester II

BSAD 100 Introduction to Business .....	3
ECHD 121 Wellness in Young Children.....	3
PSYC 220 Child Development .....	3
Math Elective (GER 4) .....	3-4
ECHD 131 Infants and Toddlers.....	3
	<hr/> 15-16

#### Semester III

ECHD 105 Orientation EC Field Experience.....	1
ECHD 125 Curriculum Development .	3
ACCT 101 Foundations of Fin. Accounting .....	4
ECHD 250 Children with Special Needs.....	3

GER (6,8,9,10,11) .....	3
General Elective.....	3
	17-18
<b>Semester IV</b>	
ECHD 201 Early Childhood Field Experiences .....	4
ECHD 204 Early Childhood Observation .....	3
ECHD 285 Issues & Policies in Early EC & ED* - WI .....	3
BSAD 203 Marketing .....	3
GER (6,8,9,10,11) .....	3
	16
<b>Semester V</b>	
ECON 101 Principles of Macroeconomics .....	3
BSAD 215 Small Business Mgmt.....	3
ECHD 340 Policies & Regulations in EC Settings .....	3
ECHD 404 Positive Child Guidance ...	3
General Elective.....	3
	15
<b>Semester VI</b>	
BSAD 319 Professional Ethics.....	3
BSAD 310 Human Resource Management.....	3
ECHD 401 DAP: Learning Environments Infants-Age 5 .....	3
ECHD 301 Fostering Relationships in EC Programs .....	3
U/L Program Elective .....	3
	15
<b>Semester VII</b>	
ECHD 409 Orientation to Culminating Experience.....	1
ECHD 420 EC Program Development & Management.....	3
BSAD 340 Management Communications .....	3
U/L Program Elective .....	3
U/L Elective .....	3
U/L Elective .....	3
	16
<b>Semester VIII</b>	
Early Childhood Care & Management Internship OR Capstone Project OR U/L Program Electives OR Combination of:	
ECHD 410 Internship AND/OR ..	3-12
ECHD 411 Capstone AND/OR.....	3-12
U/L Program Elective....	3-12
	12

\* *Fulfills writing intensive requirement.*  
 GER = General Education Requirement  
 NOTE: *Early Childhood students must meet seven out of ten General Education Requirements.*  
 Student Learning Outcomes can be found at: [www.canton.edu/business/early\\_childhood/](http://www.canton.edu/business/early_childhood/).

## Electrical Engineering Technology-B.Tech.

The Electrical Engineering Technology (B. Tech.) program at SUNY Canton provides opportunities for students to acquire knowledge and practical skills necessary to begin a career in engineering technology as technologist or engineer.

### Program Educational Objectives

1. Be effective in performing their duties as Engineers, Technologist, or Technician;

2. Be effective in writing and oral communications;
3. Be ready to expand knowledge in engineering profession through continuing education, or other life-long learning experiences;
4. Be committed to quality, timeliness and respect for diversity.

### Student Learning Outcomes

What students are expected to know and be able to do by the time of graduation:

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
5. An ability to function effectively as a member as well as a leader on technical teams.

### Career Opportunities:

- Electronics Technologist or Engineer
- Biomedical Engineering Technologist
- Sale Engineering Technologist or Engineer
- Service Engineering Technologist or Engineer
- Systems Test Engineering Technologist or Engineer
- Product Engineering Technologist or Engineer
- Software Engineering Technologist
- Documentation Engineering Technologist or Engineer
- Quality Control Engineering Technologist or Engineer
- Applications Engineering Technologist or Engineer
- R&D Technologist or Engineer
- Engineering Assistant
- Power Sub-Station Design Engineer
- Graduate School

### Accreditation

- Accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, 415 N. Charles Street Baltimore, MD 21201 – Telephone (410) 347-7700.

## Admission Requirements

- Candidates must have a minimum of a high school diploma or GED.
- Students must be prepared to take Pre-Calculus (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:

<i>(Curriculum 0216)</i>	
<b>Semester I</b>	<b>Credits</b>
ELEC 161 Electronic Fabrications .....	2
ENGL 101 Composition & the Spoken Word .....	3
MATH 123 Pre-Calculus.....	4
SOET 116 Intro to CAD & Design.....	2
ELEC 101 Electrical Circuits I.....	3
ELEC 109 Electrical Circuits I Lab.....	1
	15
<b>Semester II</b>	
Elec 141 Industrial Controls.....	2
ELEC 102 Electric Circuits II.....	3
ELEC 129 Electric Circuits II Laboratory	1
	14
MATH 161 Calculus I.....	4
ELEC 165 Digi Fundamentals & Systems.....	3
ELEC 166 Digi Fundamentals & Systems Lab.....	1
	17
<b>Semester III</b>	
PHYS 121 College Physics I OR	
PHYS 131 University Physics .....	3
PHYS 125/135 Physics I Lab.....	1
ELEC 141 Industrial Controls.....	2
ELEC 213 Microprocessors .....	3
ELEC 231 Electronic Circuits.....	4
MATH 162 Calculus II.....	4
	17
<b>Semester IV</b>	
ELEC 243 Computer Automated Control Systems .....	2
ELEC 215 Electrical Energy Conversion.....	4
ELEC 225 Telecommunications .....	3
PHYS 122 College Physics II OR	
PHYS 132 University Physics II.....	3
PHYS 126/136 Physics II Lab.....	1
MATH 263 Calculus III .....	4
	17
<b>Semester V</b>	
ELEC 332 Industrial Power Electronics	3
ELEC 343 Advanced Circuit Analysis..	3
SOET 377 Engineering Ethics.....	1
MATH 141 Statistics 1 .....	3
MATH 364 Differential Equations.....	4
Diversity Elective Course (GER 3) .....	3
	17

<b>Semester VI</b>	
ELEC 380 LAN/WAN Technology.....	3
ELEC 383 Power Transmission and Distribution.....	3
ELEC 385 Electronic Comm. I.....	3
SOET 348 Engineering Safety .....	1
Program Elective .....	3
Elective (GER 3, 4, 5, 6, 8, 9) .....	3
	16
<b>Semester VII</b>	
ELEC 386 Electronic Comm. 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) .....	3
	15
<b>Semester VIII</b>	
ELEC 477 Capstone Project* .....	3
ELEC 436 Biomedical Electronics OR	
ELEC 488 Electrical Power Systems .....	3
ECON 370 Engineering Economics ...	3
Program Elective .....	3
Elective (GER 3,4,5,6,7,8,9) .....	3
	15

*Suggested Program Electives:*  
 SOET 374 Industrial Management  
 SOET 349 Industrial Safety and Health  
 SOET 373 Management Telecommunications  
 ELEC 405 Satellite Communications  
 ELEC 375 Fiber Optic Communications  
 PHYS 301 Introduction to Photonics  
 MECH 351 Design of Experiments  
 AREA 303 Wind Turbines  
 MECH 342 Thermodynamics  
 AREA 340 Geothermal Energy  
 ELEC 355 Embedded Electronics  
 MATH minor courses: 341, 361, 351, 371, 391

\* *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.  
 NOTE: *Electrical Engineering Technology students must meet seven of ten General Education Requirements, 45 upper level credits.*  
 Student Learning Outcomes can be found at [www.canton.edu/soet/elec/](http://www.canton.edu/soet/elec/).

## Emergency Management-BS

The Bachelor of Science degree in Emergency Management focuses on the development and education of emergency managers and other administrative personnel with responsibilities in emergency management or the allied homeland security field of study. Students receive education in the mitigation of, preparedness for, response to, and recovery from natural or technological emergencies, disasters and catastrophes. Students learn emergency management theory and doctrine and how to apply it in simulated disasters. The curriculum follows standard processes

for ensuring the preparedness and resilience of communities and organizations.

### Students in this Major:

- Learn about the phases of emergency management (mitigation, preparedness, response, and recovery).
- Analyze past disasters and examine effectiveness of the current approaches to emergency management.
- Learn about natural and technological hazards, develop hazard and vulnerability assessments, and strategize mitigation solutions.
- Study new and innovative methods for preparing communities and organizations to address the risk of emergencies, disasters, and catastrophes.
- Understand how to assess community and organization resilience to disasters and methods for recovering from disasters.
- Build leadership, communication, decision-making and problem-solving skills through the development and completion of tabletop, functional and full-scale virtual exercises.
- Explore the major legal and liability issues in emergency management and their potential roles in rule-making and policy development.
- Acquire the skills necessary to develop, conduct and evaluate disaster exercises in highly-structured and applied, interactive educational simulations.

### 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
- Private Sector emergency management consulting firms.
- Institutions of Higher Education and secondary school districts
- 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 Composition and the Spoken Word (ENGL 101)
- Transfer students must have a minimum 2.0 GPA for admittance to the Emergency Management major and meet specific program requirements for admission.

### Program Requirements:

(Curriculum 1864)

Semester I	Credits
ENGL 101 Composition & the Spoken Word .....	3
SOCI 101 Introduction to Sociology ...	3
EADM 201 Fundamentals of Emergency Management..	3
Liberal Arts Elective (Any GER).....	3
Liberal Arts Elective (Any GER).....	3
FYEP 101 First Year Experience.....	1
	<hr/> 16
<b>Semester II</b>	
EADM 205 Hazard Assessment and Mitigation.....	3
MATH Math Elective(GER 4)*.....	3
Science and Lab(GER 5) ....	3
Liberal Arts Elective (GER 6, 8, 9, 10, 11).....	3
Liberal Arts Elective .....	3
	<hr/> 15
<b>Semester III</b>	
EADM 220 Emergency Mgmt. & Response.....	3
EADM 222 Emergency Planning .....	3
Science Elective(GER 5).....	3
Liberal Arts Elective (GER 3) .....	3
Liberal Arts Elective (GER 6, 8, 9, 10, 11).....	3
	<hr/> 15
<b>Semester IV</b>	
EADM 320 Recovery and Resilience ...	3
JUST 230 Fundamentals of Homeland Security .....	3
Liberal Arts Elective .....	3
Liberal Arts Elective .....	3
General Elective.....	3
	<hr/> 15
<b>Semester V</b>	
BSAD 301 Principles of Management .	3
EADM/BSAD 305 Public Budgeting & Fiscal Mgmt.....	3
EADM 314 Professional Ethics OR	
BSAD 319 Professional Ethics .....	3
Liberal Arts Electives .....	3
Liberal Arts Elective .....	3
	<hr/> 15
<b>Semester VI</b>	
EADM 307 Legal Issues in E&D.....	3
SOCI 325 Sociology of Disaster .....	3
General Elective.....	3
Liberal Arts Elective .....	3
U/L Liberal Arts Elective.....	3
	<hr/> 15
<b>Semester VII</b>	
EADM 400 Incident Management Systems.....	3
EADM 430 Simulated Disaster Training.....	3
JUST 429** Introduction to Culminating Experience.....	1
U/L Liberal Arts Electives.....	3
U/L Liberal Arts Elective.....	3
General Elective.....	3
	<hr/> 16
<b>Semester VIII</b>	
EADM 435 Disaster Simulation .....	3
EADM 485 Emergency Management Case Study.....	3
EADM 480 Internship EADM.....	3-9
OR	
UL Program Elective .....	3
UL General Elective.....	3
General Elective.....	3
	<hr/> 15
Upper Level Program Electives: All upper level EADM, JUST, LELM, HSMB, CONS, ECON, BSAD, SSCI, CITA and	

PSYC courses, and/or other upper-level courses with permission of instructor. \*MATH 111 or higher is required-NOTE: If you are enrolling in a course that is a pre-requisite for a required course in your program, your TAP eligibility may be affected.

\*\* 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.

Student Learning Outcomes can be found at [www.canton.edu/business/eadml](http://www.canton.edu/business/eadml).

### Esports Management-BBA

Esports is a rapidly growing field, both nationally and internationally. Experts predict that, by 2021, global Esports revenues will have reached \$1.65 billion. As more game designers and gaming consumers enter the market, there will be a need for managers to support their efforts. Game publishers, college and professional leagues, advertisers, and firms in complementary markets (gaming accessories, computers, specialty eyewear products, etc.) will together create a high demand for employees who understand the basic technology, language, and culture of Esports and who possess marketing and management skill and knowledge. Graduates of the Esports Management program will be able to pursue positions in public relations, Esports marketing and promotion, tournament directors, collegiate Esports coaches and directors, events management, sales, facilities management, game day operations, and general Esports administration.

### Career Opportunities:

Graduates will be well-qualified for entry-level professional opportunities in fields such as:

- Esports public relations
- Advertising
- Event management
- Sales
- Coaching/administration

### Admission Requirements:

Refer to the table of high school course prerequisites for admission <http://www.canton.edu/academics/prerequisites.html>.

Students must be prepared to take ENGL 101 (Composition and the Spoken Word).

### Program Requirements:

(Curriculum 2991)

Semester I	Credits
CITA 110 Introduction to Information Technology.....	3
ESPT 100 Introduction to eSports Mgmt.....	3
ENGL 101 Composition and the Spoken Word (GER 1,2) ..	3

FYEP 101 First Year Experience.....	1
MATH 111, 121, or 141 (GER 4) .....	3-4
Natural Sciences Elective (GER 5) .....	3-4
	<hr/> 17-19

Semester II	Credits
BSAD 100 Introduction to Business .....	3
BSAD 203 Marketing .....	3
ACCT 101 Foundations of Financial Accounting .....	4
ECON 101 Macroeconomics (GER 7) ..	3
GMMD 101 .. GMMD 101 Introduction to Media Studies (GER 6) ..	3
	<hr/> 16

Semester III	Credits
ACCT 102 Foundations of Managerial Accounting .....	3
BSAD 201 Business Law I.....	3
ECON 103 Microeconomics (GER 7) ..	3
ESPT 200 Fundamentals of Esports Tech.....	3
DEISJ Elective (GER 3) .....	3
	<hr/> 15

Semester IV	Credits
FSMA 210 Introduction to Finance .....	3
GER (8,9,10, or 11) .....	3
GER (8,9,10, or 11) .....	3
General Elective.....	3
ESPT 210 Esports Governance .....	3
	<hr/> 15

Semester V	Credits
GER 8,9,10, or 11 .....	3
BSAD 301 Principles of Management .	3
U/L Program Elective.....	3
General Elective.....	3
Program Elective .....	3
	<hr/> 15

Semester VI	Credits
BSAD 372 Electronic Commerce .....	3
BSAD 373 International Business Management.....	3
ESPT 301 Esports Marketing .....	3
U/L Program Elective.....	3
U/L General Elective .....	3
	<hr/> 15

Semester VII	Credits
BSAD 340 Management Communications .....	3
ESPT 308 Esports Event Management	3
U/L General Elective .....	3
U/L General Elective .....	3
Liberal Arts Elective .....	3
	<hr/> 15

Semester VIII	Credits
ESPT 450 Esports Internship OR	
U/L Program Electives ..	3-12
ESPT 404 Esports Capstone .....	3
	<hr/> 15

\* Fulfills writing intensive requirement.

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

GER = General Education Requirement

Upper Level Program Electives: ACCT, BSAD, ECON, ENGL 270, ENGL 301, ESPT, FSMA, LEST, GMMD, SPMT, CITA and MINS

### Finance-BBA

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
- North Franklin Federal Credit Union
- North Country Savings Bank
- MetLife

### Admission Requirements:

- Students must be prepared to take Composition & the Spoken Word (ENGL 101).
- Transfer students must have a minimum 2.0 GPA for admittance to the Finance major and meet specific program requirements for admission.

### Program Requirements:

(Curriculum 0282)

Semester I	Credits
ACCT 101 Foundations of Financial Accounting .....	4
ECON 101 Macroeconomics (GER7) ..	3
ENGL 101 Composition & the Spoken Word (GER 1,2) .....	3
CITA 110 Intro. to Information Technology .....	3
FYEP 101 First Year Experience .....	1
Mathematics Elective (GER 4) .....	3-4
	17-18
<b>Semester II</b>	
ACCT 102 Foundations of Managerial Accounting .....	3
ECON 103 Microeconomics .....	3
MATH 141 Statistics .....	3
BSAD 200 Business Communications ..	3
Natural Sciences Elective (GER 5) .....	3-4
	15
<b>Semester III</b>	
BSAD 201 Business Law I .....	3
FSMA 210 Introduction to Finance .....	3
DEISJ Elective .....	3
General Elective	

(GER Recommended) .....	3
Program1 Elective .....	3
	15
<b>Semester IV</b>	
FSMA 220 Introduction to Investments	3
BSAD 301 Principles of Management ..	3
FSMA 312 Financial Management .....	3
GER (6,8,9, or 11) .....	3
GER (6,8,9, or 11) .....	3
	15

<b>Semester V</b>	
FSMA/ECON 330 Financial Institution & Market .....	3
ECON 315 Global Economy (GER 10) ..	3
FSMA 315 Global Investments .....	3
Program Elective <sup>1</sup> .....	3
Program Elective <sup>1</sup> .....	3
	15

<b>Semester VI</b>	
BSAD 319 Professional Ethics .....	3
BSAD 203 Marketing .....	3
FSMA 415 Global Finance .....	3
FSMA 420 Financial Derivatives .....	3
Program Elective <sup>1</sup> .....	3
	15

<b>Semester VII</b>	
FSMA 325 Financial Compliance & Regulation .....	3
FSMA 422 Risk Management .....	3
Program Elective <sup>1</sup> .....	3
Program Elective <sup>1</sup> .....	3
U/L Program Elective <sup>2</sup> .....	3
FSMA 429 Orientation to Culminating Exp. .....	1
	15-16

<b>Semester VIII</b>	
FSMA 480 Finance Internship** OR .....	6-15
FSMA 460 Senior Project OR U/L Program Electives <sup>1</sup> .....	3-15
	15

1 Program Electives: Courses in ACCT, AGMT, BSAD, CITA, ECON, ESPT, FSMA, HSMB, LEST and MINS

2 Program Electives: Courses in FSMA

\*Lowest acceptable level: College Algebra or Survey of Math.

\*\*REMINDER: Pre-req to FSMA 480 or 460 is FSMA 429 (Orientation to Culminating Experience).

## Forensic Criminology, B.S.

The four-year, undergraduate Bachelor of Science in Forensic Criminology is an exciting new program which combines a core concentration in criminology with select courses in the forensic sciences. Throughout this program, students explore the complex interplay between theory and practice in the criminal justice system. Applying the scientific method to criminological theory, individuals who complete the program will be prepared to actively investigate the relationship between criminological research and evidence-based practice in the justice system, and will be poised to begin professional work in criminal justice, or for enrollment in graduate work. The program is interdisciplinary, reflecting the wide range of job opportunities in the field, including: law enforcement, corrections, victim services, juvenile justice and forensic behavioral sciences.

The program requires 3 lower-level core requirements in criminology and the social sciences; 6 upper-level core courses in criminology, forensic science, information management, and research methods; 2 courses from the criminology cluster; and 2 courses from the forensics cluster.

### Program Objectives

The primary educational objectives of the BS in Forensic Criminology include:

Exploring a broad range of liberal arts disciplines, and identifying the ways in which these disciplines are interrelated, both in theory and in practical application of theory;

Demonstrating facility with conventions of academic and professional discourse;

Analyzing the foundations and evolution of criminological theory;

Analyzing the foundations and principles of forensic science and criminological practice, including the systems in which these disciplines are found, as well as the prevailing ethical and practical guidelines for practice in these disciplines and systems;

Identifying systemic issues and problems in contemporary forensic and criminological practice; and

Applying research and data to current forensic and criminological practice to investigate potential mechanisms for evidence-based practice to lead change in emerging justice-system reforms.

### Career Opportunities:

- Court positions
- Criminalistics
- Criminal justice researcher
- Research analyst
- Criminal justice policy analyst
- Victim advocacy
- Victim services
- Offender re-entry services
- Rehabilitation services
- Offender programing
- Restorative justice services
- Child protective and social services
- Governmental administration
- Law enforcement, corrections and juvenile justice programming

### Admission Requirements:

Refer to the table of high school course prerequisites for admission.

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 2.0.

## Program Requirements

(Curriculum 2994)

Semester I	Credits
ENGL 101 Composition and the Spoken Word (GER 1) .....	3
JUST 202 Intro to Forensic Criminology .....	3
PSYC 101 Introduction to Psychology (GER 7) .....	3
SOCI 101 Intro to Sociology (GER 7) ..	3
Liberal Arts Elective .....	3
	15
<b>Semester II</b>	
MATH 111 Survey of Math (or higher) ..	3
POLS 105 Intro to American Government and Politics ..	3
SOCI 105 American Social Problems (GER 7) .....	3
Science w/ Lab (GER 5) .....	4
Arts Elective (GER 8) .....	3
	16
<b>Semester III</b>	
GMMD 101 Intro to Media Studies .....	3
SSCI181 Alcohol, Drugs & Society .....	3
American History Elective (GER 9) .....	3
General Elective .....	3
General Elective .....	3
	15
<b>Semester IV</b>	
MATH 141 Statistics .....	3
PSYC 275 Abnormal Psychology .....	3
DEISJ Elective .....	3
Liberal Arts Elective (any GER) .....	3
General Elective .....	3
	15
<b>Semester V</b>	
JUST 310 Causes of Crime .....	3
Criminology Cluster* .....	3
Forensics Cluster** .....	3
U/L Liberal Arts Elective .....	3
U/L Liberal Arts Elective .....	3
	15
<b>Semester VI</b>	
JUST 426 Ethics in Forensic Science ..	3
Forensics Cluster** .....	3
U/L Liberal Arts Elective .....	3
U/L Liberal Arts Elective .....	3
General Elective .....	3
	15
<b>Semester VII</b>	
JUST 302 Information Management in Criminal Justice .....	3
JUST 347 Research Methods Criminology .....	3
JUST 349 Vulnerable Populations in Criminal Justice .....	1
Criminology Cluster* .....	3
U/L Liberal Arts Elective .....	3
General Elective .....	3
	16
<b>Semester VIII</b>	
JUST 432 Senior Seminar (Capstone) ..	3
U/L Program Elective .....	3
Program Elective .....	3
Program Elective .....	3
Program Elective .....	3
	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.

\*Criminology Cluster JUST 307, JUST 313, JUST 316, JUST 322, JUST 324, JUST 350 or JUST 351

\*\*Forensic Cluster JUST 303, JUST 320, JUST 422 or JUST 424

NOTE: Forensic Criminology students must meet seven of the ten General Education

Requirements and successfully complete the SUNY Canton computer competency requirement.

## Funeral Services Administration-B.Tech.

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, funeral directing, funeral customs and traditions, and restorative Art..
- 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:

National Board Examination pass rates, graduation rates, and employment rates for this and other ABFSE-accredited programs are available at [www.abfse.org](http://www.abfse.org). To request a printed copy of this program's pass rates, go to the office of the FSAD program Director, Cook 109 or by email at [penepentd@canton.edu](mailto:penepentd@canton.edu), or by telephone 315-386-7170.

### Career Opportunities:

- Funeral Director
- Embalmer
- Funeral Home Manager/Owner
- Pre-need Funeral Counselor in a funeral home or with specialized pre-need companies
- Funeral Service After Care Specialist
- Educator in Funeral Services
- Cemetery Administration
- Allied Professions such as cemeteries, crematories, 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.

## B-Tech Completion Program for Licensed Funeral Directors:

Graduates from an accredited ABFSE mortuary science program and who have passed both sections of the National Board Exam are eligible for the B-Tech Completion program. Admissions and graduation requirements apply. Up to 30 credits may be obtained through challenge exams and/or from life experience credits.

### Admission Requirements:

- Students must be eligible for enrollment in Composition and the Spoken Word (ENGL 101).
- Students must be eligible for enrollment in Intermediate Algebra (MATH 106) or higher.
- Transfer students must have a minimum 2.0 GPA.
- Blue Card requirements, see website under Program Description.

### Program Requirements

(Curriculum 0152)

<b>Semester I</b>	
BIOL 101 Intro to Biology .....	4
BSAD 100 Intro to Business.....	3
ENGL 101 Composition & Spoken Word .....	3
FSAD 111 Study of Funerals: Past and Present.....	3
PSYC 101 Intro to Psychology** .....	3
	<u>16</u>
<b>Semester II</b>	
BSAD 201 Business Law I ** .....	3
CITA 110 Intro to Information Technology** .....	3
MATH 111 Survey of Math OR	
MATH 141 Statistics (Any GER 1) .....	3
English/Humanities Elect (GER 6) .....	3
Social Science Elective (GER 7) .....	3
	<u>15</u>
<b>Semester III</b>	
ACCT 101 Foundations of Financial Acct.** .....	4
SSCI 315 Death, Dying & Bereavement** .....	3
FSAD 115 Thanatochemistry * .....	2
DEISJ Elective(GER 3) .....	3
Liberal Arts Elective (GER 8, 9, 10, 11) .....	3
General Elective (GER).....	3
	<u>18</u>
<b>Semester IV</b>	
BIOL 207 Human Anatomy**.....	4
FSAD 121 Analytical Embalming Tech.** .....	3
FSAD 129 Clinical Practicum**.....	2
FSAD 225 Professional Funeral Practice** .....	3
Liberal Arts Elective (GER 8, 9, 10, 11) .....	3
	<u>15</u>
<b>Semester V</b>	
FSAD 205 Mortuary Hygiene *.....	3
FSAD 211 Embalming & Asep. Tech** 4	
FSAD 214 Funeral Home Mgmt. I** ...	3
General Elective.....	3
U/L Liberal Arts Elective (GER 8, 9, 10, 11) .....	3
	<u>16</u>

<b>Semester VI</b>	
FSAD 307 Human Response to Death** .....	4
FSAD 308 Intro to Internship.....	1
FSAD 322 Funeral Home Mgmt. II** ...	3
HLTH 303 Occupational Health & Safety.....	3
UL Management, Social Science or Health Elective.....	3
	<u>17</u>
<b>Semester VII</b>	
FSAD 321 Advanced Embalming .....	3
FSAD 420 Current Issues in Funeral Service .....	3
FSAD 440 Internship .....	7
UL General Elective.....	3
	<u>16</u>
<b>Semester VIII</b>	
FSAD 406 Bereavement Counseling* .	3
FSAD 323 Restorative Art** .....	4
FSAD 404 Funeral Service Law** .....	3
FSAD 445 Mortuary Compliance .....	2
	<u>12</u>

\* Fulfills writing intensive requirement.

\*\*Core course: covers topics directly assessed on the NBE

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

GER = General Education Requirement

—"C" or better is required in all FSAD

courses and core courses. Students who have taken Mortuary Compliance (FSAD 445) more than 1 year prior to completing requirements in the major, will be required to repeat this course and earn a C or better to be eligible for the NBEs. Once enrolled in the FSAD program, students must complete the program within six years. For extraordinary situations, permission to complete beyond 6 years must be granted by the FSAD Director.

NOTE: Funeral Services Administration students must meet seven of the ten General Education Requirements and 30 total liberal arts credits.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/fsad/outcomes.html](http://www.canton.edu/sci_health/fsad/outcomes.html).

## Game Design & Development-BS

The Bachelor of Science in Game Design and Development is a comprehensive program focusing on the design and development of modern video games. Courses in the Bachelor of Science in Game Design and Development program provide a focus on video game design and development, imaginary storytelling, and production needs of the modern gaming industry. Graduates of the Game Design program will have hands-on skills to pursue a career creating content for everything from home computers and mobile devices, to emerging platforms like cloud gaming.

### Students In This Major:

- Students will learn the most recent technologies and programming skills to create video games on multiple platforms and devices.
- They will learn the theories and fundamentals of the game develop-

ment life cycle, such as prototyping, producing, designing, programming, level creation, art production, and testing.

- Through this program, students will gain a high degree of hands-on experience with the design and development of modern video games.
- They will also receive intensive training in developing and applying an algorithmic approach to problem solving through using structure and object-oriented programming techniques, as well as designing and building gaming databases.
- Throughout the program, students will collect samples of their work and create a professional portfolio used in pursuing a job in gaming and other interactive entertainment industry.

### Career Opportunities:

- Game programmers
- Computer graphics and visualization developers
- Virtual reality and augmented reality software engineer
- Modelers
- Animators
- Digital content producers
- Level designers
- Texture mappers

### Career Outlook

Employment of gaming software developer, computer graphics and virtual reality engineer, multimedia artists and animators, is projected to grow 6 percent from 2014 to 2024. Projected growth will be due to increased demand for animation and visual effects in video games, movies, and television, according to the U.S. Department of Labor Bureau of Labor Statistics. The median pay scale for these positions was \$63,970 per year.

### Admission Requirements:

- Refer to the table of high school course prerequisites for admission.
- Students must be prepared to take ENGL 101 Composition and the Spoken Word.
- Transfers cannot be admitted until Fall 2019.
- Transfer students must have completed a college level English course.
- Transfer students to this program must have a 2.0 GPA for admission.
- Transfer students from other institutions and majors have to complete certain bridge courses that could extend their graduation rate.

### Program Requirements:

(Curriculum 2638)

Semester I	Credits
CITA 152 Computer Logic .....	3
ENGL 101 Composition and the Spoken Word (GER 10) ....	3

GAME 110 Fundamentals of Game Design .....	3
GMMD 101 Intro to Media Studies .....	3
MATH Elective .....	3
FYEP 101 First Year Experience.....	1
	16

**Semester II Credits**

CITA 180 Intro to Programming .....	4
ENGL 202 Creative Non-Fiction .....	3
GAME 130 Game Design and Prototyping.....	3
SOCI 101 Intro to Sociology .....	3
MATH 121 College Algebra (GER1) ...	4
	17

**Semester III Credits**

CITA 215 Database Apps and Concepts.....	3
ENGL 221 Creative Writing .....	3
GAME 210 Object-Oriented Design for Game Development.....	3
Elective (GER 3, 4, 5, 6, 8, 9) .....	3
Elective (GER 3, 4, 5, 6, 8, 9) .....	3
	15

**Semester IV Credits**

GAME 230 3D Modeling and Texturing .....	3
GAME 240 3D Graphics for Game Development.....	3
GAME 250 Game Mechanics and Dynamics .....	3
Elective (GER 3, 4, 5, 6, 8, 9) .....	3
Elective (GER 3, 4, 5, 6, 8, 9) .....	3
	15

**Semester V Credits**

CITA 342 Visual Programming.....	3
ENGL 301 Professional Writing.....	3
GAME 350 Aesthetics and Immersion.3	
Liberal Arts Elective .....	3
U/L Liberal Arts Elective .....	3
	15

**Semester VI Credits**

CITA 204 System Analysis Design.....	3
ENGL 315 Short Fiction: The Art of the Tale.....	3
GAME 370 Digital Media and Interaction .....	3
GMMD 432 Virtual Worlds .....	3
U/L Liberal Arts Elective .....	3
	15

**Semester VII Credits**

GAME 390 GAME Capstone I.....	1
GAME 450 Mobile Game Dev.....	3
GMMD 420 Animation Techniques .....	3
SOCI 250 Sociology of Mass Media...3	
U/L Liberal Arts Elective.....	3
U/L Liberal Arts Elective.....	3
	16

**Semester VIII Credits**

GAME 470 Emerging Gaming Applications .....	3
GAME 490 GAME Capstone II.....	3
GMMD 330 Web Design & Dev.....	3
U/L Liberal Arts Elective.....	3
U/L Liberal Arts Elective.....	3
	15

\* Fulfills writing intensive requirement.

UL = Upper Level Courses (300/400)

GER = General Education Requirement

## Graphic and Multimedia Design-BS

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)

<b>Semester I</b>	<b>Credits</b>
GMMD 101 Intro to Media Studies .....	3
ARTS 101 Intro to Drawing OR	
SOET 116 Intro. to Computer Aided Drafting and Design .....	3
CITA 152 Computer Logic .....	3
ENGL 101 Composition and the Spoken Word .....	3
SOCI 101 Introduction to Sociology .....	3
	15

**Semester II**

GMMD 102 Intro to Design OR	
GMMD 103 Intro to Digital Design Software.....	3

CITA 180 Intro to Programming OR	
GMMD 121 Programming for Visual Arts & Design OR	
GMMD 111 Digital Video Editing.....	3
Writing Elective .....	3
HUMA 189 Acting and Improvisation OR	
SPCH 104 Introduction to Speech.....	3
MATH 111 Survey of Mathematics .....	3
OR	
MATH 121 College Algebra .....	4
	15-16

**Semester III**

GMMD 200 Digital Photography .....	3
ARTS 201 Art History BCE to 16th Century ** .....	3
ENGL Writing Elective .....	3
GER Elective (GER 4, 5, 6 or 9) .....	3
Natural Science (GER 2) .....	3-4
	15-16

**Semester IV**

GMMD 211 Film Analysis.....	3
SOCI 250 Sociology of Mass Media OR	
GMMD 317 Culture and Communication.....	3
ARTS 202 Art History 16th-20th Centuries .....	3
GMMD 301 3-D Design OR	
GMMD 351 3D Animation .....	3
GMMD 240 Professional Practice.....	3
	15

**Semester V**

GMMD 313 Studies in Genre Film .....	3
Upper Level ENGL Writing Intensive** .....	3
CITA 342 Visual Programming OR	
Upper Level ARTS* OR	
Upper Level GMMD* Production Elective.....	3
Upper Level Gen. Elec. ....	3
	15

**Semester VI**

GMMD 302 Professional Photography3	
GMMD 330 Web Design and Development OR	
GMMD 311 Video Effects & Post-Production.....	3
GMMD 331 Digital Illustration and Typography .....	3
ENGL 301 Professional Writing.....	3
Upper Level Gen. Elec. ....	3
	15

**Semester VII**

GMMD 401 Multimedia Product Design .....	3
GMMD 408 Portfolio Development and Media Strategies .....	3
Upper Level GMMD* Production Elective .....	3
Upper Level GMMD* Production Elective .....	3
GMMD 440 Senior Project Proposal/ Internship Orientation .....	1
Upper Level Liberal Arts Elective .....	3
	16

**Semester VIII**

GMMD 432* Virtual Worlds OR	
Upper Level ARTS* OR	
Upper Level GMMD* Production Elective .....	3
GMMD 444 Multimedia Product Design <sup>2</sup> .....	4
GMMD 443 Arts Management Internship OR	
Upper Level Elective .....	3-4
Upper Level Elective .....	3
	13-14

\*Program Electivet

\*\*Writing Intensive Course

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

GER = General Education Requirement

Student Learning Outcomes can be found at [www.canton.edu/csoet/gmmd/gmmd/html](http://www.canton.edu/csoet/gmmd/gmmd/html).

## Health & Fitness Promotion-B.Tech.

The fitness industry continues to grow as the benefits of good health and exercise become more evident in our society. Fitness is no longer reserved for the elite athlete, but is important for all of society as a means of disease prevention and longevity. Students who complete the bachelor program in Health and Fitness Promotion may pursue employment in settings that promote health and wellness including fitness centers, corporate fitness facilities, as personal trainers, as strength and conditioning coaches with athletic teams, community health, and health organizations. Once enrolled in the program, students have three tracks to choose from to best meet their career goals: science, business, or physical therapy assistant.

The science track is designed for students who plan on pursuing graduate level studies in physical therapy, occupational therapy, chiropractic, athletic training, or physician's assistant. If a student is interested in physician's assistant, they may also be required to take additional science and math course work that may not be included in this program, such as organic chemistry, microbiology, genetics, and calculus. This is best discussed with the student's advisor.

The business track is designed for students who are interested in handling the day-to-day business operations of a fitness facility in addition to their personal trainer or strength and conditioning duties. These students are more interested in helping run a facility or perhaps owning their own business or facility. The business track will provide students with fundamental courses in business and management which should serve to prepare them for business ownership or positions of management in the field.

The physical therapy assistant track is designed for students who have already obtained a two-year PTA degree and wish to complement their physical therapist assistant training with further knowledge in exercise and fitness, or who wish to pursue a Doctor of Physical Therapy Degree after obtaining their bachelor's in Health and Fitness Promotion.

All tracks provide students with a core foundation in health promotion and fitness. Students will be able to choose from specialized electives with an emphasis on exercise and sports. Students also have the opportunity to pursue an internship in an area of their interest.

## 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, as strength and conditioning coaches with athletic teams, and community and health organizations.

## Graduate Study Opportunities:

- Doctor of Physical Therapy (DPT) programs
- Doctor of Chiropractic (DC)
- Master of Science in Occupational Safety and Health
- Master of Science in Physician Assistants Studies
- Master of Science in Occupational Therapy
- Occupational Therapy Doctorate (OTD)
- Master of Science in Kinesiology
- Master of Science in Exercise Science
- Master of Science in Community Health
- Master of Science in Therapeutic Recreation
- Master of Science in Athletic Training
- Master of Science in Human Performance

## Admission Requirements:

- Students must have prerequisites to enroll in a GER Math course and ENGL 101.

## Program Requirements:

(Curriculum 2254)

### Semester I

HEFI/HLTH/PHTA/BSAD Program Elective.....	3
BIOL 217 Anatomy & Physiology I.....	4
ENGL 101 Composition & Spoken Word .....	3
PSYCH 101 Intro. to Psychology.....	3
GER/Liberal Arts Elective (6, 8, 9, 10, 11) .....	3
	16

### Semester II

HEFI/HLTH/PHTA/BSAD Program Elective.....	3
BIOL 218 Anatomy & Physiology II ....	4
GER Math* .....	3-4
DEISJ Elective.....	3
GER/Liberal Arts Elective (6, 8, 9, 10, 11) .....	3
	16-17

### Semester III

HEFI/HLTH/PHTA/BSAD Program Elective.....	3
PSYC 225 Human Development .....	3
ACCT 101 Founds. of Financial Accounting OR	
PHYS 121 & 125 Or College Physics I & Lab.....	4
General Elective.....	3
General Elective.....	3
	16

### Semester IV

HEFI/HLTH/PHTA/BSAD Program Elective.....	3
HEFI 203 Motor Development OR	
PHTA 103 Neuromuscular Pathologies .....	3-4
PHTA 102 Kinesiology OR	
HEFI 300 Biomechanics .....	3
BSAD 201 Business Law I OR	
PHYS 122 & 126 College Physics II & Lab.....	3-4
General Elective.....	3
	15-17

### Semester V

HEFI 303 Exercise Physiology.....	3
CHEM 150 College Chemistry I OR	
BSAD 301 Principles of Mgmt. ....	3-4
MATH 141 Statistics .....	3
General Elective.....	3
General Elective U/L if needed .....	3
	15-16

### Semester VI

CHEM 155 College Chemistry II OR	
SPMT 306 Sports Operations & Facilities Management ..	3-4
HEFI 401 Fitness Assessment and Exercise Prescription.....	4
HEFI 375 Fitness and Sports Nutrition	3
HEFI 405 Current Issues in Health & Fitness (WI)** .....	3
General Elective U/L if needed .....	3
	16-17

### Semester VII

HEFI 402 Strength and Conditioning.	3
HEFI 406 Orientation to Culminating Exp. ....	1
HEFI 404 Organization and Administration in Health and Fitness Professions ....	3
U/L Program Elective.....	3
U/L Program Elective.....	3
	12

### Semester VIII

HEFI 407 Health & Fitness Internship AND/OR	
U/L Program Electives	12-15
	12-15

\* Students who wish to pursue the science track or are planning to pursue a DPT or wish to take Physics must take College Algebra (Math 121) for their required GER math.

\*\* Fulfills writing intensive requirement.

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

GER = General Education Requirement

Program Electives: BIOL 310, The Genome, BIOL 325 Biology and Society, BIOL 335 Pathophysiology, HEFI 310 Advanced Care and Prevention of Athletic Injuries, PSYC 320 Psychology of Health, HLTH 303 Occupational Health & Safety, SSCI 370 Research Methods in the Social Sciences, HEFI 403 Community Wellness, HEFI 408 Exercise Prescription for Special Populations, HEFI 409 Applied Exercise Prescription, HEFI 410 Applied Strength & Conditioning, SOCI 320 Sociology of Health, Illness & Healthcare, SPMT 306 Sports Operations and Facilities Management, SPMT 330 Psychology of Sport and Exercise, SSCI 315 Death, Dying and Bereavement

NOTE: Health & Fitness Promotion students must take seven out of ten General Education Requirements including one and ten, and 30 total General Education credits.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/hefi/](http://www.canton.edu/sci_health/hefi/).

## Health Care Management-B.S.

Health Care Management is a Bachelor of Science degree, which includes study in health, science, business and management. Students 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 another discipline for advanced standing in the major.
- May take asynchronous online courses and thus attendance in Canton will not be necessary.
- Will have internship possibilities in the last semester of study.
- Will have a diverse background in health sciences, health care management and business management upon completion of the program.

## Career Opportunities:

- Upward mobility in management of allied health fields
- Public and private health service careers
- Long-term care administration
- Research in public health on county, state and federal levels
- Business sector jobs in administration within industry, education, government as well as health care

## Admission Requirements:

- Students must be prepared to take Composition & the Spoken Word (ENGL 101).
- Transfer students must have a minimum GPA of 2.0.

## Program Requirements:

- All students will complete a minimum of 121 credits, maintaining a GPA of 2.0.
- In order to advance to junior level status students will complete 60 credits, maintaining a GPA of 2.0.
- Course work from certificate and associate degree programs 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 2.0.

(Curriculum 0253)

### Semester I

HSMB 101 Intro. to Health Care Mgmt.3	
ENGL 101 Basic Communication (GER 1,2) .....	3

### Credits

Liberal Arts and Science Elective.....	3
PSYC 101 Introduction to Psychology (GER 7) .....	3
FYEP 101 First Year Experience.....	1
	16

### Semester II

ECON 103 Microeconomics .....	3
HSMB 316 Equity, Diversity, and Cultural Competence in Healthcare .....	3
SOCI 101 Introduction to Sociology ...3	
GER (6,8,9,10, or 11) .....	3
MATH 141* Statistics (GER 4).....	3
	16

### Semester III

ACCT 101 Foundations of Financial Acct. ....	4
CITA 108 Introduction to Spreadsheets .....	1
Science Elective (GER 5).....	3-4
HLTH 200 Medical Terminology of Disease OR	
HSMB 200 Terminology and Coding..3	
Liberal Arts and Sciences Elective.....	3
	14-15

### Semester IV

HSMB 304 U.S. Health Care System ..3	
FSMA 210 Introduction to Finance .....	3
U/L Liberal Arts & Sci. Elective.....	3
GER (6,8,9,10, or 11) ....	3-4
General Elective.....	3
	15-16

### Semester V

HSMB 301 Public Health Issues .....	3
HSMB 306 Health Care Financing .....	3
Liberal Arts and Sciences Elective.....	3
Liberal Arts and Sciences Elective.....	3
U/L Liberal Arts and Sciences Elective .....	3
	15

### Semester VI

HSMB 305 Managed Care.....	3
ECON 310 Economics of Healthcare..	3
HSMB 307 Health Care Facility Admin. 3	
Liberal Arts and Sciences Elective.....	3
Liberal Arts and Sciences Elective.....	3
	15

### Semester VII

HSMB 308 HSM Intern. Orientation... 1	
BSAD 340** Mgmt. Communications*3	
Liberal Arts and Sciences Electives .....	3
HSMB 302** Legal and Ethical Issues in Health.....	3
HSMB 310 Quality and Patient Safety 3	
U/L Liberal Arts and Sciences Elective .....	3
	16

### Semester VIII

HSMB 410 Senior Seminar.....	3
HSMB 408 Internship (3-12) AND/OR Up to 4	
program electives for total of 12 credits	
U/L program elective.....	3
General Elective.....	3
General Elective .....	3
General Elective .....	3
	15

Total Credits: 122-124

Program Electives: ACCT, BIOL, BSAD, CHEM, CITA, CYBR, select PSYC courses, DHYG, EADM, ECON, FSAD, FSMA, HEFI, HLTH, HSMB, LEST, MINS,

NURS, PHTA, VSCT, VSAD. Program must meet 7 of 10 General Education Requirements and 30 total GER credits.

\*Students must meet the pre-requisite for MATH 141 Statistics

\*\*Writing Intensive

## Homeland Security–B.Tech.

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
- 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. Marshal's Service
- U.S. Secret Service
- International Criminal Police Organization (Interpol)
- Transportation Security Administration
- Criminal & Intelligence Analysis
- Private Sector Security/Domestic Infrastructure Security

### Admission Requirements:

- Students must be prepared to take Intermediate Algebra (MATH 106).
- Students must be prepared to take Composition and the Spoken Word (ENGL 101).
- Transfer students must have a minimum cumulative grade point average of 2.0 or above.

Recommended preparatory courses or their equivalents are:

JUST 101 Intro. to Criminal Justice  
 JUST 105 Correctional Philosophy  
 JUST 110 Criminal Law  
 JUST 111 Criminal Procedure  
 JUST 209 Law Enforcement

Communications OR  
 BSAD 200, Business  
 Communications

MATH 111 Survey of Mathematics OR  
 MATH 121 College Algebra

### Program Requirements

(Curriculum 2335):

Semester I	Credits
JUST 101 Intro. to Criminal Justice	3
ENGL 101 Composition and the Spoken Word	3
MATH 111 or Higher	3
PSYC 101 Introduction to Psychology	3
CITA 110 Intro to Info. Technology	3
	<u>15</u>

Semester II	Credits
JUST 230 Fundamentals of Homeland Security	3
JUST 112 Criminal Law and Procedure	3
SOCI 101 Introduction to Sociology	3
Natural Science w/ Lab (GER 5)	4
Humanities Elec. (GER 6)	3
	<u>16</u>

Semester III	Credits
JUST 201 Critical Issues in Criminal Justice **	3
JUST 232 Intelligence Analysis	3
DEISJ Elective (GER 3)	3
American History Elective (GER 9)	3
General Elective	3
	<u>15</u>

Semester IV	Credits
JUST 233 Crime Analysis	3
General Elective	3
General Elective	3
Liberal Arts Elective (Any GER)	3
Liberal Arts Elective (Any GER)	3
	<u>15</u>

Semester V	Credits
JUST 326 Threats to Homeland Security	3
JUST 375 Global Terrorism: 20th Century to Present	3
JUST 380 Civil Liberties & Homeland Security	3
General Elective	3
General Elective	3
	<u>15</u>

Semester VI	Credits
JUST 314 Ethics in Criminal Justice	3
LEST 375 Immigration Law & Border Control	3
JUST 355 Public Safety Incident Response	3
U/L Program Elective	3
General Elective	3
	<u>15</u>

Semester VII	Credits
JUST 415 Emerging Issues in Homeland Security	3
JUST 425 Intelligence Research & Analysis	3
JUST 429 Intro. to Culminating Experience	1
UL Program Elective	3
General Elective	3
General Elective	3
	<u>16</u>

### Semester VIII

JUST 430 Culminating Experience in Criminal Justice OR (5) U/L Program Elec. .... 15  
17

\*MATH 111 or higher is required – NOTE: If you are enrolling in a course that is a pre-requisite for a required course in your program, your TAP eligibility may be affected.

\*\*Writing intensive course.

1. UL Program Electives are selected from JUST or LEST (300-400) level courses
2. This course is only required for students intending to take JUST 430, Culminating Experience, in the 8th semester

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/home/](http://www.canton.edu/sci_health/home/).

## 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
- Project engineers or managers

### 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 2.0.

### Program Requirements:

(Curriculum 0935)

Semester I	Credits
ENGL 101 Composition and Spoken Word	3
Physics, Chemistry OR Mathematics Elective <sup>4,5</sup>	4
Program Elective <sup>1</sup>	3
Program Elective <sup>1</sup>	3
Program Elective <sup>1</sup>	3
	<u>16</u>

Semester II	Credits
ACCT 101 Foundations of Financial Accounting OR	4
ACCT 104 Survey of Accounting	4
Physics, Chemistry OR Mathematics Elective <sup>4,5</sup>	4
Program Elective <sup>1</sup>	3
Program Elective <sup>1</sup>	3
Program Elective <sup>1</sup>	3
	<u>17</u>

Semester III	Credits
ECON 103 Microeconomics OR	3
ECON 101 Macroeconomics	3
MATH 141 Statistics	3
Program Elective <sup>1</sup>	3
Program Elective <sup>1</sup>	3
GER <sup>2</sup>	3
	<u>15</u>

Semester IV	Credits
BSAD 201 Business Law I	3
Math Elective <sup>4</sup>	4
Program Elective <sup>1</sup>	3
GER <sup>2</sup>	3
GER <sup>2</sup>	3
	<u>16</u>

Semester V	Credits
BSAD 340 Management Communications*	3
SOET 361 Project Management	3
Program Elective <sup>1</sup> (U/D)	3
Program Elective <sup>1</sup>	3
Program Elective <sup>1</sup>	3
	<u>15</u>

Semester VI	Credits
BSAD 301 Principles of Management	3
ECON 370 Engineering Economics	3
Program Elective <sup>1</sup>	3
Program Elective <sup>1</sup>	3
Liberal Arts/Science (U/D)	3
	<u>15</u>

Semester VII	Credits
BSAD 449 Strategic Policies & Issues	3
SOET 377 Engineering Ethics	1
SOET 430 Systems Analysis	3
Program Elective <sup>1</sup> (U/D)	3
Program Elective <sup>1</sup> (U/D)	3
Liberal Arts/Science (U/D)	3
	<u>16</u>

Semester VIII	Credits
SOET 348 Engineering Safety	1
SOET 477 Engineering Capstone Project	3
Business Elective <sup>3</sup> (U/D)	3
Program Elective <sup>1</sup> (U/D)	3
Program Elective <sup>1</sup> (U/D)	3
	<u>13</u>

\*Fulfills writing intensive requirement.

U/L = Upper Level Courses (100/200).

U/L = 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 graduates must have a minimum of 45 UD credits and 30 liberal arts credits.

1. All Program Elective courses presented for graduation must have at least a grade of C (or transfer credit). Program Electives can be chosen from the Canino School of Engineering technology, the Business Department, or the Cybersecurity Program.

2. Seven of ten SUNY General Education Requirement subject areas (including mathematics and basic communication) and 30 credits of SUNY General Education courses must be completed within the first two years of full-time study of the program. The list of all subject areas is: 1.) Mathematics; 2.) Natural Science; 3.) Social Science; 4.) American History; 5.) Diversity; 6.) Other World Cultures; 7.) Humanities; 8.) The Arts; 9.) Foreign Language; 10.) Basic Communication.

3. A business elective (U/D) is an elective from business school upper division courses.

4. Minimum mathematics requirement is MATH 121 College Algebra or MATH 123 Pre-Calculus Algebra, or equivalent.

5. Physics or Chemistry Electives can be chosen from PHYS 121&125, PHYS 122&126, PHYS 131&135, PHYS 132&136, CHEM 150, CHEM155, or equivalent.

Student Learning Outcomes can be found at [www.canton.edu/csoet/itm/](http://www.canton.edu/csoet/itm/).

## Information Technology-B.Tech.

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 2.0 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	Credits
BSAD 100 Introduction to Business.....	3
CITA 163 Survey of Information Tech.3	
CITA 152 Computer Logic.....	3
ENGL 101 Composition & Spoken Word.....	3
Mathematics Elective1.....	3
	15
<b>Semester II</b>	
CITA 170 Comp. Concepts & Oper. Sys.....	3
CITA 175 Comp. Concepts & Oper. Sys Lab.....	1
CITA 171 Oper. Sys. Use & Administration.....	3
MATH 141 Statistics.....	3
GER Course.....	3
GER Course.....	3
	16
<b>Semester III</b>	
CITA 180 Intro. to Programming.....	4
CITA 215 Database Apps & Concepts.....	3
CITA 220 Data Comm & Network Tech.....	3
CITA 221 Data Comm & Network Tech Lab.....	1
ECON 101 Macroeconomics OR	
ECON 103 Microeconomics.....	3
GER Course.....	3
	17
<b>Semester IV</b>	
CITA 204 Systems Analysis and Design2.....	3
CITA 250 Information Security.....	3
GER Course.....	3
GER Course.....	3
GER Course.....	3
	15
<b>Semester V</b>	
BSAD 301 Principles of Management .3	

CITA 300 Mgmt. Information Sys.....	3
CITA 310 Web Server Administration.3	
SOET 361 Project Management.....	3
Accounting <sup>3</sup> .....	3
	15

### Semester VI

CITA 330 Emerging IT Applications...3	
CITA 400 Quantitative Approaches to Mgmt.....	3
SOET 370 Engineering Economics.....	3
Program Electives <sup>4</sup> .....	3
Program Electives <sup>4</sup> .....	3
UD Program Elective <sup>4</sup> .....	3
	18

### Semester VII

CITA 440 Network Management.....	3
CITA 441 Network Management Lab 1 Program Elective <sup>4</sup> .....	3
UD Program Elective <sup>4</sup> .....	3
UD Liberal Arts/Science.....	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 Electives <sup>4</sup> .....	6
	12

UD = Upper Division Course (300/400)

GER = General Education Requirement  
Students in this program must take at least 45 upper division credits (course numbers 300/400) and a minimum of 30 Liberal Arts credits.

Seven of ten SUNY General Education Requirement academic areas (including mathematics and basic communication) and 30 credits of SUNY General Education courses must be completed within the first two years of full-time study of the program.

1 Minimum mathematics requirement is MATH 121 College Algebra.

2 Fulfills writing intensive requirement.

3 ACCT 101 Financial Accounting or ACCT 104 Survey of Accounting recommended.

4 Program Electives are courses from within the Canino SOET and the Business Department.

Student Learning Outcomes can be found at [www.canton.edu/csoet/it/](http://www.canton.edu/csoet/it/).

### Additional Graduation Requirements

Students must take at least four upper level CITA courses and SOET 477 (Capstone Project) from SUNY Canton. Each required CITA course used to meet graduation requirements must have a grade of C or higher or transfer credit. No more than 3 CITA credits with a course number below CITA 150 may be used for credit towards graduation.

## Legal Studies-BS

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 engaging in legal research, analysis, and writing.
- Learn from faculty who bring a wealth of real world legal experience to the classroom.
- May take elective courses in Accounting, Business, Criminal Justice, and Liberal Arts & Sciences to receive an interdisciplinary education.
- Can choose as many online program components as needed for maximum flexibility.
- Can choose to engage in a semester-long internship as a culminating experience.

### Career and Graduate Education Opportunities

- Law school or other graduate programs
- Paralegals or legal assistants in law firms.
- Specialists in Real Estate and mortgage document preparation.
- Professionals in District Attorney, Sheriff, Probation, Legal Aid, and Public Defender Offices
- Freelance work as legal professionals.

### Career Outlook

- Jobs for graduates in Legal Studies are projected to grow by 12 percent (much faster than average) from 2018 to 2028 and experienced, formally trained paralegals should have the best job prospects according to the U.S. Department of Labor Bureau of Labor Statistics.

### Admission Requirements:

- Students must be prepared to take Composition & the Spoken Word (ENGL 101).
- Transfer students must have a cumulative grade point average of 2.0 for admission to the Legal studies major and meet specific program requirements to be considered for admission.

### Program Requirements

(Curriculum 0818)

Semester I	Credits
LEST 101 American Legal System.....	3
MATH Elective (GER 4).....	3

American History Elective (GER 9) .....	3
ENGL 101 Composition & Spoken Word (GER 1, 2) .....	3
Social Sci. Elec. (GER 7).....	3
FYEP 101 First Year Experience.....	16
<b>Semester II</b>	
ACCT 101 Foundations of Financial Accounting .....	4
BSAD 201 Business Law I.....	3
Arts Elective (GER 8 - Must be Liberal Arts) .....	3
Liberal Arts & Sciences Electives .....	6
CITA 101 Library/Info Literacy .....	1
	17
<b>Semester III</b>	
BSAD 202 Business Law II .....	3
LEST 221 Criminal Practice .....	3
Natural Science Elective (GER 5).....	3-4
DEISJ Elective (GER 3) .....	3
World Language (GER 11).....	4
	16-17
<b>Semester IV</b>	
LEST 310 Legal Research.....	3
ENGL 301 Professional Writing & Com.....	3
World History & Global Awareness Elective (GER 10) .....	3
Humanities Elective (GER 6).....	3
Upper Level Legal Studies Elective.....	3
	15
<b>Semester V</b>	
LEST 340 Constitutional Law .....	3
LEST 330 Legal Writing** .....	3
LEST 350 Civil Litigation.....	3
Liberal Arts & Sciences Electives .....	6
	15
<b>Semester VI</b>	
BSAD 319 Professional Ethics .....	3
LEST 449 Advanced Legal Writing **.	3
Liberal Arts & Sciences Electives (U/L Recommended) .....	9
	15
<b>Semester VII</b>	
LEST 429 Internship Orientation (If taking LEST 480 in 8th semester) .....	1
Upper Level Legal Studies Electives .....	6
Upper Level Liberal Arts & Sciences Electives.....	9
	15-16
<b>Semester VIII</b>	
LEST 480 Legal Studies Internship 3-15 OR	
LEST 485 Senior Project.....	3-15
AND/OR	
U/L Program Electives .....	3-15
	15
<i>Total Credits for Degree 124-127</i>	
<b>** Writing Intensive Course</b>	
<i>U/L = Upper Level Courses (300/400)</i>	
<i>GER = General Education Requirement</i>	
<i>U/L Legal Studies Electives: LEST 320, LEST 360, LEST 370, LEST 375, LEST 380, LEST 388, LEST 410, and LEST 450.</i>	
<i>U/L Program Electives: LEST 320, LEST 360, LEST 370, LEST 375, LEST 380, LEST 388, LEST 410, LEST 450, BSAD 301, BSAD 305, BSAD 310, EADM 307, HSMB/NURS 302, JUST 345, and JUST 350.</i>	

**NOTE:** *Legal Studies students must meet all ten General Education Requirements. Student Learning Outcomes can be found at [www.canton.edu/business/lest/](http://www.canton.edu/business/lest/).*

## Management-BBA

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.
- Are encouraged to pursue a minor for additional skill sets.

### 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 Composition & the Spoken Word (ENGL 101) and GER 1 Math.
- Transfer students must have a cumulative GPA of 2.0 to be admitted into the program.

### Program Requirements:

(Curriculum 1645)

Semester I	Credits
FYEP 101 First Year Experience.....	1
BSAD 100 Intro. to Business .....	3
CITA 110 Intro. to Information Technology.....	3
ENGL 101 Composition & the Spoken Word (GER 1,2) .....	3
MATH 111 or Higher (GER 4) .....	3-4
Diversity: Equity Inclusion and SJ (GER 3) .....	3
	16-17

### Semester II

ACCT 101 Foundations of Financial Accounting .....	4
BSAD 203 Marketing .....	3
ECON 101 Macroeconomics (GER 7) .	3
American History (GER 9) ..	3
Humanities (GER 6).....	3
	16

### Semester III

BSAD 201 Business Law I.....	3
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ACCT 102 Foundations of Managerial Accounting .....	3
ECON 103 Microeconomics .....	3
Natural Sciences Elective (GER 5).....	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
World Language (GER 11)	
OR	
World History & Global Awareness (GER 10) .....	3
Business Elective (LL) .....	3
	15

### Semester V

BSAD 301 Principles of Management .	3
BSAD 310 Human Resource Management.....	3
BSAD 373 International Business Management.....	3
U/L Elective (BSAD/ECON/ACCT).....	3
Business Elective (Upper Level) .....	3
	15

### Semester VI

BSAD 304 Business Analytics.....	3
BSAD 319 Professional Ethics* .....	3
BSAD 340 Mgmt. Communications ..	3
General Elective.....	3
Business Elective (Upper Level).....	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).....	3
	15

### Semester VIII

BSAD 406 Cumulative Evaluation-BBA in Management .....	3
BSAD 450** Business Internship AND/OR.....	6-12
BSAD 410 Senior Project AND/OR 6-12	
U/L Program Elective....	3-12
	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, AGMT 310, AGMT 330, BSAD, ECON, FSMA, LEST, HSMB, SPMT, ESPT, and CITA

**NOTE:** *Management students must meet eight of the ten General Education Requirements.*

*Student Learning Outcomes can be found at [www.canton.edu/business/bsad/](http://www.canton.edu/business/bsad/).*

## Mechanical Engineering Technology-B.Tech.

Graduates of the Bachelor of Mechanical Engineering Technology (B. Tech) program have knowledge on the applied

aspects of science and engineering technology that demonstrate skills in analysis, design, development, implementation, and oversight of mechanical systems. Graduates will exhibit skills necessary to be successful in industrial manufacturing processes, experimental techniques and procedures, machinery, thermal/fluid/energy systems, instrumentation and control systems, heating, ventilation and air conditioning (HVAC) systems, and Alternative Energy Systems dependent upon elective choices. Graduates will be successful tech-nologists, field technologists, technical managers, process and sales engineers and will be prepared academically to enter and succeed in related postgraduate degree programs.

### Students In This Major:

- Choose from four tracks of study: (Alternative & Renewable Energy, Mechanical Energy Systems Design, Manufacturing/Mechanical Design, Mechatronics and Robust Quality)
- Apply mathematics, science, engineering and technology to design systems, components and/or processes.
- Utilize sophisticated laboratory equipment to conduct, analyze and Interpret experimental data and report results for process improvement.
- Apply computer skills to design, interpret and analyze data, solve problems and prepare reports/presentations for professional communications.
- Develop team skills through hands projects that require a commitment to quality, timeliness, and continuous improvement while maintaining professional, ethical and social responsibilities.
- Gain real world experience through internship/Co-Op 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, and Graduate School.

### Accreditation

Accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, 415 N. Charles Street Baltimore, MD 21201 – Telephone (410) 347-7700.

### 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 0235)

Semester I	Credits
MATH 123 Pre-Calculus (GER 1) .....	4
MECH 121 Manufacturing Processes I	3
ENGS 101 Intro. to Engineering .....	2
PHYS 121/131 College/University Physics I (GER 2) .....	3
PHY 125/135 Physics Lab 1 GER 2 ...	1
MECH 101 Drawing for Engineers .....	1
	14
<b>Semester II</b>	
MATH 161 Calculus I (GER 1) .....	4
ENGL 101 Composition & The Spoken Word (GER 10) .....	3
PHYS 122/132 College/University Physics II (GER 2) .....	3
PHYS 126/136 Physics Lab 2 (GER 2)	1
MECH 102 Parametric Modeling .....	2
MECH 122 Introduction to 3D Printing I Elective 1 .....	2
	16
<b>Semester III</b>	
MATH 162 Calculus II (GER 1) .....	4
ENGS 201 Statics .....	3
ELEC 261 MET Electricity .....	4
MECH 241/ENGS 314 Fluid Mechanics I .....	3
MECH 242 Fluid Power lab .....	1
GER (6,7, 8,9,10,11) <sup>2</sup> .....	3
	18
<b>Semester IV</b>	
ENGS 203 Engineering Strength of Materials .....	3
ENGS 205 Material Science .....	3
MECH 221 MET Lab <sup>3</sup> .....	1
MECH 301/ ENGS 202 Technical Dynamics/Dynamics .....	3
MECH 303 GD&T (Geometric Dimensioning and Tolerancing) .....	2
Diversity Elective .....	3
	15
<b>Semester V</b>	
Elective (300 or 400 level) <sup>4</sup>	3
ENGS 350 Mechanics of Machine Elements .....	4
MECH 342 Thermodynamics .....	3
MATH 364 Differential Equations .....	4
ENGS 102 Programming for Engineers .....	2
	16
<b>Semester VI</b>	
MECH 343 Heat Transfer .....	3
MECH 312 Engineering Design .....	3
SOET 400 Technical Communication ..	3
MATH 141 Statistics .....	3

Elective (300 or 400 level) <sup>4</sup> .....	3
	15
<b>Semester VII</b>	
MECH 377 Capstone Research & Proposal .....	2
Elective (300 or 400 level) <sup>4</sup> .....	3
Elective (300 or 400 level) <sup>4</sup> .....	3
GER Elective (6, 7, 8, 9, 10, 11) <sup>2</sup> .....	3
GER Elective (6, 7, 8, 9, 10, 11) <sup>2</sup> .....	3
MKTX 310 Instrumentation and Controls .....	3
	17
<b>Semester VIII</b>	
MECH 477 Capstone Project .....	3
ECON 370 Engineering Economics .....	3
SOET 377 Engineering Ethics <sup>6</sup> .....	1
Elective (300 or 400 level) <sup>4,5</sup> .....	3
Elective (300 or 400 level) <sup>4,5</sup> .....	3
	13

- 1 Program electives selected from ACHP, AREA, ENGS, CITA, CONS, ELEC, MATH, MECH, SOET designators and AUTO 104.
- 2 Must complete 7 of 11 GERS and 30 total credits. Required GERS: (112), 3, 4, and 5. Need to pick 3 others.
- 3 Writing intensive course requirement.
- 4 Program electives are upper level from all ACHP, AREA, CITA, CONS, ELEC, MATH, PHYS, MECH, MKTX, SOET course listings. Program electives are selected by advisement based on student interest and career goals. BSAD 421 can also be used.
- 5 MECH 480 Co-Op can be equivalent up to 6 credit hours.
- 6 Can substitute SOET 378 or BSAD 319 if desired.

Student Learning Outcomes can be found at [www.canton.edu/soet/mechl](http://www.canton.edu/soet/mechl).

## Nursing-BS

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 manager 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

### Transfer Opportunities:

- Graduates of the RN-BS program are able to transfer into Nursing graduate programs.

### Accreditations:

- Registered by the NYS Education Department, Office of the Professions State Education Building-2nd Floor, Albany NY 12234, and phone: 518-474-3817.
- Accredited by the Accreditation Commission for Education in Nursing, 3390 Peachtree Road, Suite 1400, Atlanta, Georgia 30326, and phone: 404-975-5000.

### Admission Requirements:

Admission requirements can be found online at: [http://www.canton.edu/sci\\_health/nurs/description.html](http://www.canton.edu/sci_health/nurs/description.html)

### Program Requirements:

(Curriculum 0291)

Semester I	Credits
NURS 300 Conceptual Frameworks in Nursing .....	3
NURS 303 Health Assessment In Nursing .....	4
MATH 111 Survey of Math OR	
MATH 121 College Algebra* .....	3-4
Liberal Arts Elec. (GER 4,5,6,7,8, 9) .....	3
BIOL 335 Pathophysiology .....	3
	16-17
<b>Semester II</b>	
NURS 302 Legal & Ethical Iss. in Healthcare .....	3
NURS 304 Health Promotion & Restoration .....	3
BIOL 310 The Genome .....	3
MATH 141 Statistics .....	3
SOCI 101 Intro to Sociology .....	3
Lib. Arts Elective (GER 4,5,6,7,8, 9) .....	3
	18
<b>Semester III</b>	
NURS 370 Research Methods in Health Sci. ....	3
NURS 400 Nursing Mgmt & Leadership ** .....	3
Lib. Arts Elective (GER 4,5,6,7,8, 9) .....	3
U/L Lib. Arts Elec. (GER) ....	3
U/L Lib. Arts Elec. (GER) ....	3
	15
<b>Semester IV</b>	
NURS 402 Community Health Nursing	4
NURS 403 Transcultural Nursing .....	2
U/L Lib. Arts Elec. (GER) ....	3
U/L Liberal Arts Elective .....	3
U/L Liberal Arts Elective .....	3
	15

—Part-time status program requirements can be found online at: [http://www.canton.edu/sci\\_health/nurs/description.html](http://www.canton.edu/sci_health/nurs/description.html)

—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 or Math 121; 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 and 45 upper level credits.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/nurs/](http://www.canton.edu/sci_health/nurs/)

Residency Requirements: Students must complete a minimum of 30 credits at SUNY Canton's RN-BS program in order to receive a Bachelor of Science degree from SUNY Canton. Required courses include: Health Assessment in Nursing (NURS 303), Nursing Management and Leadership (NURS 400), and Community Health Nursing (NURS 402).

## Nursing Dual Degree--AAS/BS

The Dual Degree Nursing Program (DDNP) combines general education courses and nursing courses that allow students to complete their baccalaureate education in four years and be eligible to take the NCLEX-RN (RN licensing exam) in three years. After three years of full-time study, graduates earn an Associate in Applied Science (AAS) Degree in nursing and are eligible to take the NCLEX-RN licensing examination to become Registered Nurses (RN). The fourth year is online for those who have obtained their RN license and have graduated with an AAS degree in nursing from SUNY Canton. The final year is career oriented so that students may work as RNs and attend school online to complete their degree.

### Students in this Major

- Make judgments in practice, substantiated with evidence, that integrate nursing science in the provision of safe, quality care and that promote the health of patients within a family and community context.
- Minimize risk of harm to patients and providers through both system effectiveness and individual performance.
- Use information and technology to communicate, manage knowledge, mitigate error, and support decision-making.
- Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy, and safe, quality care for diverse patients within a family and community context.
- Function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care.
- Advocate for clients and families in ways that promote their self-determination, integrity, and ongoing growth as human beings.
- Recognize the client or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for client's preferences, values, and needs.
- Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve the quality of care for patients, families, and communities.
- Use data to monitor the outcomes of care processes and use improvement methods to design and test changes to continuously improve the quality and safety of health care systems
- Integrate best current evidence with clinical expertise and patient/family

preferences and values for delivery of optimal health care.

- Utilize the nursing process, think critically, and base client 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.

### Program Highlights

- Career oriented
- Obtain eligibility to be a Registered Professional Nurse
- Develop critical thinking and professional behaviors
- Become competent in nursing skills
- Participate in clinical practicums and the skills laboratory

### Career Outlook

- Nursing is the largest health care occupation.
- There is increasing diversity in nursing employment, and projections indicate large numbers of new jobs.

### Employers Of SUNY Canton Graduates

- Hospitals and physicians' offices
- Home healthcare services
- Nursing care facilities
- Correctional facilities
- Schools
- Military service

### Transfer Opportunities

- Graduates have a number of transfer options including: RN-MSN programs.

### Accreditations

- Registered by the NYS Education Department, Office of the Professions State Education Building-2nd Floor, Albany NY 12234, and phone: 518-474-3817.
- Accredited by the Accreditation Commission for Education in Nursing, 3390 Peachtree Road, Suite 1400, Atlanta, Georgia 30326, and phone: 404-975-5000.

### Admission Requirements:

Admission requirements can be found online at: [www.canton.edu/sci\\_health/nur/](http://www.canton.edu/sci_health/nur/)

### Program Requirements:

<i>(Curriculum)</i>		Credits
<b>Semester I</b>		
BIOL 217 Anatomy and Physiology I	4	
ENGL 101 Composition and the Spoken Word	3	
PSYC 101 Introduction to Psychology	3	

MATH 111 Survey of Math	OR	
MATH 121 College Algebra	.....	3
SOCI 101: Introduction to Sociology	..	3
		<u>16</u>

<b>Semester II</b>		
BIOL 218 Anatomy and Physiology II.4		
PSYC 225 Human Development or		
PSYC 220 Child Development	.....	3
MATH 141 Statistics	.....	3
Liberal Arts Elective		
(GER 6,8,9,10, or 11)	.....	3
Liberal Arts Elective		
(GER 6,8,9,10, or 11)	.....	3
		<u>16</u>

<b>Semester III</b>		
BIOL 209 Microbiology	.....	4
NURS 101 Nursing Fundamentals	.....	6
NURS 103 Pharmacology	.....	1
NURS 105 Nursing Seminar	.....	1
Liberal Arts Elective (GER 3: DEISJ)	.....	3
		<u>15</u>

<b>Semester IV</b>		
NURS 106 Maternal Newborn Nursing	.....	4.5
NURS 107 Mental Health Nursing	.....	4.5
NURS 104 Pharmacology	.....	1
BIOL 391 Pathophysiology	.....	3
U/L Liberal Arts Elective		
(GER if needed)	.....	3
		<u>16</u>

<b>Semester V</b>		
NURS 201 Medical Surgical Nursing I	.....	10
BIOL 310 The Genome	.....	3
NURS 200 Pharmacology	.....	1
U/L Liberal Arts Elective		
(GER if needed)	.....	3
		<u>17</u>

<b>Semester VI</b>		
NURS 202 Medical Surgical Nursing II	.....	10
NURS 203 Professional Issues & Trends in Nursing	.....	1
NURS 204 Pharmacology	.....	1
U/L Liberal Arts Elective		
(GER if needed)	.....	3
		<u>15</u>

<b>Semester VII</b>		
NURS 300 Conceptual Frameworks	.....	3
NURS 370 Research Methods in the Health Sciences	.....	3
NURS 303 Health Assessment	.....	4
NURS 304 Health Promotion and Restoration	.....	3
Upper Liberal Arts Elective	.....	3
		<u>16</u>

<b>Semester VIII</b>		
NURS 302 Ethical and Legal Issues	.....	3
NURS 400 Nursing Mgmt. and Leadership	.....	3
NURS 402 Community Health Nursing	.....	4
NURS 403 Transcultural Nursing	.....	2
Upper Liberal Arts Elective	.....	3
		<u>15</u>

\* Fulfills writing intensive requirement

\*\* Co-requisite for NURS 201, Pre-requisite for NURS 202

Graduation Requirements: Total Semester Hours – 126 credits with minimum 2.0 GPA

\*A grade of "C+" or better is required for successful completion of all Nursing courses and a "C" or better in all co-requisite courses.

Successful completion of all co-requisite courses and a minimum semester GPA of 2.0 is required to continue in the program. This requirement is different from that of the college in order to help insure that the student

is adequately prepared to enter the nursing profession, increase likelihood of success on the NCLEX-RN test, and enhance the ability of the student to transfer credit to another college.

Once enrolled in NURS 101, students must complete the program within five years. For extraordinary circumstances, permission to complete the program beyond five years must be granted by the Dean of the School of Science, Health, and Criminal Justice in consultation with the Nursing Department Director.

Additional Graduation Requirements can be found online at: [www.canton.edu/sci\\_health/nur/](http://www.canton.edu/sci_health/nur/)

## Sports Management--BBA

The BBA in Sports Management prepares individuals for professional careers within sport organizations, such as non-profit 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 satisfy SUNY Canton general admission's requirements.
- Students must meet requirements to enroll in MATH 106 or higher and ENGL 101.

### Program Requirements

(Curriculum 0182)

Semester I	Credits
SPMT 100 Major Prep .....	1
SPMT 101 Foundations of Sports Management.....	3
BSAD 100 Introduction to Business.....	3
ENGL 101 Composition & the Spoken Word .....	3
Math (GER 4)* .....	3-4
GER (6, 8, 9, 10, 11) .....	3
	<u>15-16</u>

Semester II	Credits
SPMT 240 Sport Governance .....	3
ACCT 101 Foundations of Financial Accounting .....	4
GER 7 (Intro to Soc. recommended) .....	3
GER (6, 8, 9, 10, 11) .....	3
GER (6, 8, 9, 10, 11) .....	3
	<u>16-17</u>

Semester III	Credits
SPMT 202 Sport in Society.....	3
ECON 103 Microeconomics (GER 7) .....	3
BSAD 201 Business Law I.....	3
Natural Science (GER 5) .....	3-4
Diversity (GER 3) .....	3
	<u>15</u>

Semester IV	Credits
SPMT 241 Legal Issues in Sport.....	3
SPMT 242 Sports Finance .....	3
BSAD 203 Marketing.....	3
SPMT 311 Sports Information .....	3
GER (1-11) .....	3
	<u>15</u>

Semester V	Credits
SPMT 203 Leadership for Sports Professionals .....	3
SPMT 307 Sports Marketing.....	3
SPMT 411 Sports Public Relations* .....	3
BSAD 301 Principles of Management .....	3
SPMT 308 Sports Event Management .....	3
	<u>15</u>

Semester VI	Credits
SPMT 306 Sports Operations & Facilities Mgmt. ....	3
BSAD 310 Human Resource Management.....	3
SPMT 320 Global Sports Perspectives .....	3
U/L Program Elective.....	3
General Elective** .....	3
	<u>15</u>

Semester VII	Credits
SPMT 410 Orienta. to Culminating Experience.....	1
SPMT 415 Sports Media & Broadcasting .....	3
U/L Program Elective.....	3
U/L Program Elective.....	3
General Elective.....	3
General Elective.....	3
	<u>16</u>

Semester VIII	Credits
Sport Management Internship (421)	

OR Senior Project (422) OR U/L Program Electives or Combination of:  
Internship OR Senior Project OR:  
U/L Program Electives .3-15  
15

Students may also combine an internship with Upper Level elective. Internship must be a minimum of 6 credits. Students must have a combined 3.0 GPA of all SPMT courses completed to be eligible to apply for an internship.

#### Upper Level Program Electives:

SPMT 300 SPMT Practicum .....	1-3
SPMT 312 Sport Entrepreneurship .....	3
SPMT 313 Economics of Sport .....	3
SPMT 412 Sport Sales and Sponsorships .....	3
SPMT 413 Contemporary Issues in College Sport Administration .....	3
SPMT 414 Labor Relations in Sport.....	3
SPMT 430 Advanced Sports Marketing & Sales .....	3
SPMT 431 Applied Sports Media and Broadcasting .....	3
SPMT 432 Applied Sports Event Management.....	3

(Upper level BSAD, ECON, FSMA, HEFI courses also accepted as Program Electives)

\* GER MATH must be MATH 111 or higher  
UL = Upper Level Courses (300/400)

GER = General Education Requirement

NOTE: Sports Management students must meet seven out of ten General Education Requirements including one and ten, 30 total General Education Requirements.

Student Learning Outcomes can be found at  
[www.canton.edu/sci\\_health/spmt/](http://www.canton.edu/sci_health/spmt/)

## Technological Communications-BB

SUNY Canton's Bachelor of Science in Technological Communications is a career-focused program of study cultivating expertise in the latest technology for building community and sharing ideas. The program offers an opportunity to explore writing for multimedia, database applications, presentation tools, application design, and digital mapping, all while considering audience, context, and the literary, architectural, interactive, and design elements of media.

Students learn vital workplace skills including professional and media writing, a variety of communications methods designed to reach general and specialized audiences, and learn best practices in the field of Technological Communications to craft innovative projects as part of guided internship experiences. Graduates are well-qualified for entry-level professional opportunities in fields such as public relations, advertising, and cultural heritage, as well as businesses and nonprofit organizations looking for trained writers and narrators who are well-versed in

the most recent digital communication technology.

### Students In This Major:

- Explore the use of emerging social and digital media outlets for effective communication and messaging.
- Understand industry standard design frames such as User Experience (Ux) and Design Thinking
- Use the latest digital technology to create innovative communications and content to effectively reach specialized and general audiences.
- Collaborate in designing and mapping content to create powerful narratives designed for a variety of media channels.
- Work closely with expert faculty mentors to learn to effectively present, organize, and articulate thoughts, ideas, viewpoints, and conclusions both orally and/or in writing.
- Gain significant practical experience with internships focusing on development and publication of traditional and new media content.

### Career Opportunities

The employment opportunities cover a broad range, including major businesses and non-profit organizations. Graduates will be prepared for employment opportunities in:

- Advertising
- Public Relations
- Web/Social Media Content Management
- Design for Gaming Industry
- Editing
- Grant Writing
- Building and Maintaining Digital Archives
- Narrative Writing
- Media Project Management
- Podcasting

### Admission Requirements

- Refer to the table of high school course prerequisites for admission.
- Students must be prepared to take ENGL 101 (Composition and the Spoken Word).
- Transfer students must meet re-registration requirements to be considered for admission.

### Program Requirements

(Curriculum 2673)

Semester I	Credits
TCOM 100 Introduction to Technological Communications .....	3
Math Elective (GER 4).....	3-4
American History Elective (GER 9) .....	3
ENGL 101 Composition and the Spoken Word (GER 10) .....	3
Social Science Elec. (GER 7) .....	3
FYEP 101 First Year Experience.....	1
	<u>17-18</u>

Semester II	Credits
DEISJ (GER 3) .....	3
Arts Elective (GER 8) .....	3
ENGL/TCOM 200 Narrative Form in Video Games .....	3
Humanities Elec. (GER 6) .....	3
General Elective .....	3
	<u>16-17</u>

Semester III	Credits
ENGL 270 Media Writing* .....	3
ENGL/TCOM 314 Digital Graphic Storytelling .....	3
Science Elective (GER 5) .....	3-4
World Language (GER 11) .....	4
General Elective .....	3
	<u>15</u>

Semester IV	Credits
ENGL 380 Intercultural Communications .....	3
ENGL/TCOM 322 Mobile Media Stories & Games .....	3
SOCI 305 Gender in the Media .....	3
World History and Global Awareness (GER 10) .....	3
Program Elective .....	3
	<u>15</u>

Semester V	Credits
TCOM 310 Identity in the Digital Age .....	3
ENGL 301 Professional Writing.....	3
ENGL 302 Global Englishes.....	3
Program Elective .....	3
General Elective .....	3
	<u>15</u>

Semester VI	Credits
TCOM 330 Digital Narratives Workshop.....	3
TCOM/ENGL 345 Electronic Lit. ....	3
Program Elective (U/L Recommended) .....	3
Program or Liberal Arts Elective (U/L Recommended) .....	6
	<u>15</u>

Semester VII	Credits
TCOM 400 Internship I .....	3
TCOM 360 Online Media & Pop Culture.....	3
Program Elective (U/L Recommended) .....	3
Program or Liberal Arts Elective (U/L) .....	6
	<u>15</u>

Semester VIII	Credits
TCOM 410 Internship II .....	3
TCOM 420 Senior Seminar .....	3
Program Elective (U/L Recommended) .....	3
Program or Liberal Arts Elective (U/L) .....	6
	<u>15</u>

\* Fulfills writing intensive requirement.

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

GER = General Education Requirement

Program Electives: ENGL and GRST

## Veterinary Service Administration-BBA

The Bachelor of Business Administration (BBA) program in Veterinary Service Administration 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 AVMA - Accredited Veterinary Technology 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
- Animal Shelter Management
- Veterinary Mobile and Spay/Neuter Clinic Management
- Biomedical Research Facility Management
- Zoo and Wildlife Management
- Public Sector employment (State, Federal, and Local regulatory agencies)

### 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, expanding the scope of employment opportunities and earning potential for 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 2535)

<b>Semester V</b>	
ACCT 101 Foundations of Financial Accounting .....	4
BSAD 201 Business Law I .....	3
BSAD 340 Management Communications* .....	3
MATH 111 Survey of Mathematics or Higher .....	3
Liberal Arts Elective (GER) .....	3
	<hr/> 16-17
<b>Semester VI</b>	
BSAD 215 Small Business Mgmt. ....	3
VSAD 301 Veterinary Practice Management .....	3
BSAD 310 Human Resource Management .....	3
HLTH 303 Occupational Health and Safety .....	3
U/L Liberal Arts Elective (GER if needed) .....	3
	<hr/> 15
<b>Semester VII</b>	
HSMB 301 Public Health Issues .....	3
BSAD 301 Principles of Management ..	3
VSAD 302 Animal Care Institution Management .....	3
VSAD 308 Veterinary Service Administration Internship Orientation .....	1
VSAD 402 Veterinary Business & Financial Management ....	3
U/L Liberal Arts Elective (GER if needed) .....	3
	<hr/> 16
<b>Semester VIII</b>	
VSAD 408 Internship for Veterinary Service Administration ....	12
Upper-Level General Elective .....	3
	<hr/> 15

\* Fulfills writing intensive requirement.

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

GER = General Education Requirement

NOTE: Veterinary Service Administration students must meet seven of the ten General Education Requirements.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/vsct/](http://www.canton.edu/sci_health/vsct/).

## Veterinary Technology-BS

The Bachelors 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 Bachelor's of Science degree. Graduates of this program have the opportunity to become veterinary technicians coupled with the career flexibility that a Bachelor's degree provides.

### 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.
- Perform two 120 hour Preceptorships
- Will be eligible to take the Veterinary Technician National Licensing Examination (VTNE).
- May be eligible to pursue a post graduate degree (MS, PhD, DVM).

### Career Opportunities:

Veterinary technicians provide professional technical support to veterinarians, biomedical researchers, and other animal care specialists. They may work in:

- Clinical practice
- Educational Institutions
- Public Health
- Government agencies
- Research & Pharmaceutical industry
- Veterinary supply and equipment sales

### Career Outlook:

- Veterinary Technician has been listed as one of Money Magazine's "Top 10 Fastest Growing Career Fields."
- At the present time, there is a serious shortage of veterinary technicians throughout the country.

### Transfer Opportunities:

- Articulation with Ross University School of Veterinary Medicine for students with an overall GPA of 3.0 or higher and possessing the required prerequisite courses.

### Admission Requirements:

Admission is selective and based on academic credentials. To be considered for admission, please refer to the requirements posted on our webpage at: [www.canton.edu/sci\\_health/vet/description.html](http://www.canton.edu/sci_health/vet/description.html)

The pre-exposure rabies vaccine is required in the program. This is administered in a series of three vaccinations and must be completed during or prior to the semester student is enrolled in VSCT 115

### Program Requirements:

(Curriculum 2278)

<b>Semester I</b>		<b>Credits</b>
VSCT 101 Fundamental Vet. Nursing Skills I .....		2

VSCT 103 Intro. to Animal Agriculture 2	4
BIOL 150 College Biology I .....	4
CHEM 150 College Chemistry I .....	4
ENGL 101 Expository Writing OR	
ENGL 101 Composition & Spoken Word .....	3
	<hr/> 15

<b>Semester II</b>	
VSCT 104 Veterinary Office Practices .	1
VSCT 114 Animal Anatomy & Physiology .....	3
VSCT 115 Fundamental Vet. Nursing Skills II .....	2
BIOL 155 College Biology II .....	4
CHEM 155 College Chemistry II .....	4
DEISJ (GER 5) .....	3
	<hr/> 17

<b>Semester III</b>	
VSCT 206 Anesthetic Principles .....	3
VSCT 207 Health & Disease of Farm Animals .....	3
BIOL 209 Microbiology .....	4
Math Elective (GER 1) † .....	3-4
Lib.Arts Elec. (GER 4, 5, 6, 7, 8, 9) .....	3
	<hr/> 16-17

<b>Semester IV</b>	
VSCT 112 Vet. Clinical Pathology I .....	3
VSCT 210 Veterinary Technology Preceptorship I .....	1
VSCT 212 Research Animal Techniques I	2
VSCT 213 Practical Nutrition .....	1
PSYC 101 Introductory to Psychology .	3
Lib.Arts Elec. (GER 4, 5, 6, 7, 8, 9) .....	3
U/L Program Elective .....	3
	<hr/> 16

<b>Semester V</b>	
VSCT 202 Vet. Clinical Pathology II ....	3
VSCT 203 Small Animal Medicine & Therapeutic Techniques ...	3
VSCT 204 Large Animal Medicine & Therapeutic Techniques ....	2
VSCT 205 Radiographic Techniques ...	2
VSCT 209 Veterinary Technology Preceptorship II .....	1
U/L Program Elective .....	3
U/L Liberal Arts Elective .....	3
	<hr/> 17

<b>Semester VI</b>	
VSCT 210 Veterinary Microbiology .....	3
VSCT 211 Animal Hospital Practices and Procedures * .....	3
VSCT 214 Veterinary Pharmacology ...	2
U/L Liberal Arts Electives ...	6
	<hr/> 14

<b>Semester VII</b>	
Upper Level BIOL OR CHEM .....	3
U/L Program Electives .....	9
U/L Liberal Arts Elective .....	3
	<hr/> 15

<b>Semester VIII</b>	
U/L Program Electives .....	9
U/L Liberal Arts Elective .....	6
	<hr/> 15

† 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.

—Students are required to earn a C or better in all specified curriculum courses prefixed with VSCT in order to progress in the program.

—The NYS Education Department Office of the Professions requires persons applying for licensure to answer questions related to a conviction of a crime or professional misconduct.

\* 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: VSAD, 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.  
 Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/vet/](http://www.canton.edu/sci_health/vet/).

## ASSOCIATE DEGREES

### Apprentice Training: Industrial Trades-AAS

#### Students In This Major:

- Enter into this program while working towards or after obtaining a Journey-man'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)

Credits  
 Related Technical Instruction and Supervised On-the-Job Training.....30  
 (Represented by satisfactory completion of Journeyman's Certificate\* with related instruction provided by St. Lawrence-Lewis BOCES)

English/Humanities ..... 6  
 Social Sciences ..... 6  
 Mathematics/Science ..... 6-8  
 Liberal Arts & Science Elective ..... 3  
 General Electives ..... 9  
**30-32**

\* Fulfills writing intensive requirement.  
 Student Learning Outcomes can be found at [www.canton.edu/business/apprentice.html](http://www.canton.edu/business/apprentice.html).

### Automotive Technology-AAS

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:

- Have the opportunity to earn two Snap-On Diagnostics certifications.
- May receive Subaru training in senior year if academic average is 'B' or better.
- Can earn NATEF certification upon successful examination.
- 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.
- 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:

- Morrisville State College
- SUNY Utica/Rome, Oswego

#### 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:

(Curriculum 0525)  
 Semester I Credits  
 MATH 101 Applied College Mathematics 1 ..... 4  
 AUTO 112 Automotive Electrical Systems ..... 3  
 AUTO 122 Automotive Electrical

Systems Lab..... 1  
 AUTO 101 Automotive Service..... 2  
 AUTO 111 Automotive Service Lab .... 1  
 AUTO 104 Basic Welding..... 2  
 ENGL 101 Composition & The Spoken Word (GER 10) ..... 3  
**16**

Semester II  
 AUTO 113 Engine Performance I..... 3  
 AUTO 114 Engine Performance I Lab. 1  
 AUTO 141 Automotive Brake Systems 3  
 AUTO 144 Automotive Brake Systems Lab ..... 1  
 AUTO 102/103 Diesel Engines or Automotive Air Conditioning<sup>3</sup> ..... 2  
 Social Science Elec. (GER 3) 3  
 GER 5, DEISJ Elective ..... 3  
**16**

Semester III  
 AUTO 213 Engine Performance II ..... 4  
 AUTO 218 Auto. Engine Repair 4 ..... 3  
 AUTO 241 Suspension Design and Services..... 2  
 AUTO 225 Drivelines and Manual Transmissions ..... 3  
 AUTO 282 Suspension Design and Services Lab ..... 1  
 PHYS 115 Basic Physics 2 (GER 2)..... 4  
**17**

Semester IV  
 AUTO 212 Automotive Electrical Systems II ..... 4  
 AUTO 214 Automotive Computer Systems ..... 3  
 AUTO 230 Service Mgt. and Operations..... 1  
 AUTO 240 Hybrids and Electric Vehicles..... 3  
 Humanities Elective (GER 7, 8, 9) ..... 3  
**14**

- 1 Mathematics level depends on previous preparation. Applied College Mathematics (MATH 101) is the minimum requirement. Math 106 Intermediate Algebra or higher may be substituted.
- 2 PHYS 121/125 - College Physics I lecture/lab may substitute if student meets prerequisites
- 3 One required. Courses offered alternating years
- 4 Writing Intensive course
- 5 GER's can be taken in a different order than suggested if desired GER cannot fit into schedule.

Student Learning Outcomes can be found at [www.canton.edu/csuet/auto\\_tech.html](http://www.canton.edu/csuet/auto_tech.html).

## Additional Graduation Requirements

Students must meet a minimum GPA of 2.0

## Business: Accounting-AAS

The Associates in Applied Science degree program is a two-year program. Students learn the basics of financial accounting and real-world accounting practice from our faculty with professional working experience. The skill will be extended to tax preparation and information technology using the most recent accounting and tax software.

In addition, the two-year program In Accounting prepares graduates to continue their education in accounting or finance or business management four-year bachelor degree.

### 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.
- Students have the opportunity to learn real world accounting practice with simulations and QuickBooks, the current accounting software.

### Career Opportunities:

Graduates are able to disseminate financial information to public reporting entities and business decision makers. Opportunities in this field include:

- 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. According to the Bureau of Labor Statistics, employment of accountants and auditors is projected to grow by 13% from 2012 to 2022. The accounting profession is committed to delivering a strong ethical foundation engaged in the preparation and examination of financial records, and a commitment to lifelong learning. The role of the accountant is ever changing and integral to any business entity. See more compensation information from the website of U.S. Bureau of Labor Statics, Accountants and Audi-

tors. <https://www.bls.gov/oes/current/oes132011.htm#st>

### 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:

- 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
- Gray & Gray and Associates CPAs, P.C.

### 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 Composition & the Spoken Word (ENGL 101).

### Program Requirements:

(Curriculum 0630)

Semester I	Credits
FYEP 101 First Year Experience.....	1
ACCT 101 Foundations of Financial Accounting 1 .....	4
ECON 101 Macroeconomics .....	3
ENGL 101 Composition & the Spoken Word (GER 1,2) .....	3
CITA 110 Intro. to Info. Technology...3	
Mathematics*2 (GER 4) .....	3-4
	17-18
Semester II	
ACCT 102 Foundations of Managerial Accounting 1 .....	3
ECON 103 Microeconomics .....	3
Mathematics (GER 4)2.....	3-4
BSAD 200 Business Comm.** .....	3
Natural Sciences Elective (GER 5) .....	3
	15-16

Semester III	
ACCT 300 Intermediate Accounting.....	3
ACCT 306 Cost Accounting.....	3
BSAD 201 Business Law 1.....	3
DEISJ Elective (GER 3) .....	3
Program Elective .....	3
	15
Semester IV	
Accounting Electives (2) .....	6
FSMA 210 Introduction to Finance.....	3
Program Elective or GER (6,8,9,10,11)3*** .....	3
General Elective or GER (6,8,9,10,11)3*** .....	3
	15

\*\*Fulfills writing intensive requirement.

GER = General Education Requirement

1 Lowest acceptable grade 2.0.

2 Lowest acceptable level: Intermediate Algebra (MATH 106). Math courses recommended: College Algebra and Statistics.

3 Management or Finance Bachelor's Degree track: Seven GERs are required.

A minimum cumulative GPA of 2.0 is required to remain in this program.

Accounting Electives: ACCT 242, 245, 302, 310, 335, 410, 430, or 440.

Program Electives: Courses in ACCT, BSAD, ECON, FSMA, and LEST.

3 GER = General Education Requirement; students may take no more than one course per GER category. <http://www.canton.edu/gened/>

Student Learning Outcomes can be found at [www.canton.edu/business/accounting.html](http://www.canton.edu/business/accounting.html).

## Business Administration-AS, AAS

### 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
- Wal-Mart
- New York State
- Canton-Potsdam Hospital
- St. Lawrence Health Alliance

### 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 Composition & the Spoken Word (ENGL 101).

### Program Requirements:

### AS Degree-Transfer Program (Curriculum 0671)

Semester I	Credits
FYEP 101 First Year Experience*** .....	1
ACCT 101 Foundations of Financial Accounting .....	4
BSAD 100 Introduction to Business.....	3
ECON 101 Macroeconomics (GER 7) .....	3
ENGL 101 Composition & the Spoken Word (GER 1,2) .....	3
Mathematics* (GER 4) .....	3-4
	17-18

Semester II	
ACCT 102 Foundations of Managerial Accounting .....	3
CITA 110 Intro. to Information Technology .....	3
ECON 103 Microeconomics .....	3
GER(6,8,9,10) .....	3
MATH 141 Statistics .....	3
	15

Semester III	
BSAD 200 Business Comm.** .....	3
BSAD 201 Business Law 1.....	3
Program Elective .....	3
DEISJ (GER 3) .....	3
Natural Sciences (GER 5).....	3
	15

Semester IV	
FSMA 210 Introduction to Finance.....	3
Program Elective .....	3
Program Elective .....	3
GER (6,8,9,10) .....	3
GER 11 .....	4
	16

\*Survey of Mathematics (MATH 111), College Algebra (MATH 121), Pre-Calculus Algebra (MATH 123) and Trigonometry (MATH 131), or Calculus (MATH 161)

\*\*Fulfills writing intensive requirement.

\*\*\*Required for Freshmen students only

GER = General Education Requirement - Students may take no more than one course per GER subject area

Program Electives: ACCT, BSAD, ECON, FSMA, or LEST

### AAS Degree (Curriculum 632)

Semester I	Credits
FYEP 101 First Year Experience*** .....	1
ACCT 101 Foundations of Financial Accounting .....	4
BSAD 100 Intro. to Business .....	3
ECON 101 Macroeconomics (GER 7) .....	3
ENGL 101 Composition & the Spoken Word (GER 1,2) .....	3
Mathematics* .....	3-4
	17-18

Semester II	
ACCT 102 Foundations of Managerial Accounting .....	3
CITA 110 Intro. to Information Technology .....	3
ECON 103 Microeconomics .....	3
Natural Sci. Elec. (GER 5) 3-4	
Mathematics* (GER 4) .....	3-4
	15-17

### Semester III

BSAD 200 Business Comm.**	3
BSAD 201 Business Law I	3
Program Elective	3
GER (6,8,9,10,11) OR Liberal Arts & Sciences Electives	3
DEISJ Elective (GER 3)	3
	15

### Semester IV

FSMA 210 Introduction to Finance	3
Program Elective	3
Program Elective	3
General Elective	3
GER (6,8,9,10,11) OR General Elective	3
	15

\*Intermediate Algebra (MATH 106), Survey of Mathematics (MATH 111), College Algebra (MATH 121), Pre-Calculus (MATH 123), College Trigonometry (MATH 131), Statistics (MATH 141), or Calculus (MATH 161).

\*\* Fulfills writing intensive requirement.

\*\*\* Required for all Freshmen

GER = General Education Requirement

Program Electives: ACCT, BSAD, ECON, FSMA, or LEST

Student Learning Outcomes can be found at [www.canton.edu/business/bus\\_admin.html](http://www.canton.edu/business/bus_admin.html).

## Civil Engineering Technology--AAS

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. Career options may be primarily office-based (drafting and design) or field-based (surveying, inspection, and construction management). Students are well prepared to meet the career challenges of the civil engineering and construction industries. Graduates may pursue a baccalaureate degree (Civil and Environmental Engineering Technology at SUNY Canton or elsewhere). Hands-on learning and extensive practical skills are emphasized in classes.

### Students In This Major:

- Communicate effectively and professionally in the construction environment through proper use of verbal, written, and graphic techniques.
- Develop mathematical skills in algebra, trigonometry, and calculus, using analytical problem-solving methods.
- Employ logical and concise analytical techniques to solve technical problems.
- Demonstrate the capability to develop engineering drawings for construction projects.
- Demonstrate a thorough knowledge of common construction materials; both their proper use and their proper testing procedures.
- Understand the mechanics of structural design.
- Be proficient in the use of surveying equipment to collect data to lay out

projects, and to solve engineering problems.

- Graduates will have developed the personal and academic skills required to pursue lifelong learning in, and beyond, the chosen major.

### Career Opportunities:

- Structural Steel Designer, Drafter, Estimator, Surveyor, Construction Superintendent, Construction Inspector, Materials Technician, Environmental Technician, Industrial Sales Representative, Residential/Commercial Contractor and General Contractor.

### Career Outlook:

- Nearly 100% of graduates willing to relocate/travel are able to establish civil engineering or construction-related careers.

### 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:

Transfer Opportunities can be found at [www.canton.edu/csoet/civil\\_eng.html](http://www.canton.edu/csoet/civil_eng.html)

### Accreditation:

- Accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, 415 N. Charles Street, Baltimore, MD 21201 – Telephone (410) 347-7700.

### Admission Requirements:

- Students must be qualified to enter PreCalculus Algebra (MATH 123)  
*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:

<i>(Curriculum 0517)</i>	
<b>Semester I</b>	<b>Credits</b>
ENGS 101 Intro to Engineering	2
SOET 116 Intro. to Computer Drawing	2
CONS 101 Elementary Surveying	4
MATH 123 Pre-Calculus I	4
PHYS 121/131 College/Univ. Physics I	3
PHYS 125/135 College/Univ. Physics I Lab	1
	16

### Semester II

ENGS 201 Statics	3
SOET 250 Intro 3D CADD and BIM	2
MATH 161 Calculus I	4
PHYS 122/132 College/Univ. Physics II	3
PHYS 126/136 College/Univ. Physics II Lab	1
ENGL 101 Composition and the Spoken Word	3
	16

### Semester III

CONS 203 Advanced Surveying	3
ENGS 203 Strength of Materials for Tech.	3
CONS 275 Strength of Materials Lab 1	1
CONS 280 Civil Engineering Materials 3	2
CONS 222 Construction Estimating	2
Diversity GER (3)	3
	15

### Semester IV

Technical Program Elective 3	3
CONS 216 Soils In Construction 2	4
CONS 322 Hydraulics	4
CONS 274 Construction Mgmt.	3
Humanities GER (6,7,8,9,10 or 11)	3
	17

Total Required Program Credits = 64  
1 MATH: If entering at MATH 161 they will complete MATH 161 and MATH 162.

2 Writing Intensive

3 Must be approved technical program elective with CONS or CIVL course designator, or approved by advisor/department chair.

Student Learning Outcomes can be found at [www.canton.edu/csoet/civil\\_eng.html](http://www.canton.edu/csoet/civil_eng.html)

### 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 Department Chair.

## 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
- 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 Composition and the Spoken Word (ENGL 101).
- High school chemistry and physics courses are recommended.
- High school computer technology courses are strongly recommended.
- Transfer students must have a minimum of 2.0 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)*

<b>Semester I</b>	<b>Credits</b>
BSAD 100 Introduction to Business	3
CITA 163 Survey of Information Technology <sup>1</sup>	3
CITA 152 Computer Logic <sup>1</sup>	3
ENGL 101 Composition & Spoken Word	3
Mathematics Elective <sup>2</sup>	3
	15

### Semester II

CITA 170 Comp. Concepts & Oper. Sys <sup>1</sup>	3
CITA 175 Comp. Concepts & Oper. Sys Lab <sup>1</sup>	1
CITA 171 Oper. Sys. Use & Administration <sup>1</sup>	3
CITA 202 Computer User Support* <sup>1</sup>	3
Math or Science Elective <sup>2</sup>	3
SPCH 104 Introduction to Speech	3
	16

### Semester III

ACCT 104 Survey of Accounting <sup>6</sup>	4
CITA 220 Data Comm and Network Tech <sup>1</sup>	3

CITA 221 Data Comm and Net. Tech Lab <sup>1</sup> .....	1
ECON 101 Macroeconomics OR	
ECON 103 Microeconomics .....	3
2–Program Electives <sup>1, 5</sup> .....	6
	<hr/>
	17

**Semester IV**

CITA 250 Information Security <sup>1</sup> .....	3
Social Science Elective <sup>7</sup> .....	3
Program Elective <sup>1, 5</sup> .....	3
2–LA Electives, 3, 4 .....	6
	<hr/>
	15

\* Fulfills writing intensive requirement..

Student Learning Outcomes can be found at [www.canton.edu/csoet/com\\_inf\\_sys.html](http://www.canton.edu/csoet/com_inf_sys.html).

Although there are several modern well-equipped computer labs on campus, it is expected each student has a personal computer.

<sup>1</sup>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 CITA150 may receive credit towards graduation.

<sup>2</sup>CIS minimum requirement is MATH 106 Intermediate Algebra. MATH 121 College Algebra and MATH 141 Statistics are required in B. Tech. IT Program.

<sup>3</sup>All graduates must have a minimum of 20 LA (liberal arts and sciences) credits

<sup>4</sup>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.

<sup>5</sup>Program Electives are from Canino SOET, the Business Department (including ACCT 102 Managerial Accounting), and the GMMD Department. Students pursuing a B.Tech. in IT degree should take: CITA180 Intro to Programming, CITA 204 Systems Analysis and Design, and CITA 215 Database Applications and Concepts.

<sup>6</sup>ACCT101 Financial Accounting may be substituted for students interested in pursuing a business related minor or major.

<sup>7</sup>Social Science Elective – students pursuing a baccalaureate degree should select from GER 4, 5, or 6 – see note 4 above.

**Additional Graduation Requirements**

Each CITA course used to meet graduation requirements must have a grade of “C” or higher. A transfer student must complete at least two CITA 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 esti-

ating. 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:**

<i>(Curriculum 1162)</i>	
<b>Semester I</b>	<b>Credits</b>
CITA 108 Intro to Spreadsheets.....	1
FYEP 101 First Year Experience.....	1
CONS 112 Wood Structures .....	3
SOET 116 Intro. to Comp. Drawing ...	2
BSAD 100 Intro to Business.....	3
ENGL 101 Composition and the Spoken Word .....	3
MATH Math Elective <sup>1</sup> .....	3
	<hr/>
	16
<b>Semester II</b>	
CONS 111 Commercial Structures.....	3
CONS 132 Construction Drafting.....	3
CITA 109 Intermediate Spreadsheets.	1
PHYS 115 Basic Physics .....	4
General Elective.....	3-4
	<hr/>
	14
<b>Semester III</b>	
CONS 101 Elementary Surveying.....	4
CONS 222 Construction Estimating... ..	2
CONS 280 Civil Eng. Materials.....	3
BSAD 201 Business Law I.....	3
ACCT 104 Survey of Accounting .....	4
	<hr/>
	16
<b>Semester IV</b>	
CONS 274 Construction Mgmt. ....	3
CONS 216 Soils in Construction <sup>2</sup> .....	4
Diversity GenEd Elective (GER 3).....	3
GenEd Elective (GER 6, 7, 8, 9, 10, or 11) .....	3
	<hr/>
	13

Total Required Program Credits = 60

<sup>1</sup> The student will be leveled into the appropriate MATH class. MATH 123 is the minimum level of mathematics required for the program. If entering with MATH 106, MATH 123 will be taken as the General Elective in semester 2. If leveled Into MATH 123, a general elective will be taken in semester 2.

<sup>2</sup> Writing Intensive Course.

Student Learning Outcomes can be found at [www.canton.edu/csoet/const\\_mgt.html](http://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.

**Criminal Justice–AAS**

The program offers three distinct learning tracts which allows the student the opportunity to tailor their coursework for future career aspirations:

- Law Enforcement
- Corrections
- Generalist

Students are provided a solid academic foundation that allows them to seamlessly transfer into any of our B.

Tech majors in Criminal Investigation, Homeland Security or Criminal Justice: Law Enforcement Leadership.

**Students In This Major:**

- Acquire the basic knowledge for a broad view of criminal justice which could support either a career in criminal justice OR further academic study in his field.
- Have their needs met by choosing the delivery format for the courses that best fits their lifestyles. The coursework is available in both a traditional classroom format and in an online format.

**Career Opportunities:**

- Police Officer
- Corrections Officer
- Private Security
- Loss Prevention Officer

**Career Outlook:**

- U.S. Department of Labor forecasts that the growth rate until 2024 is approximately 4%. The average starting pay is approximately \$39,000 which is higher than the overall average pay of all occupations tracked by the D.O.L.

**Recent Employers Of SUNY Canton Graduates:**

- Federal Bureau of Investigations (FBI)
- Secret Service
- U.S. Customs & U.S. Border Patrol
- 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 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. The majority of these students remain at SUNY Canton and pursue one of the baccalaureate degrees due to the hands-on aspects of our B. Tech degrees.

**Admission Requirements:**

- Students must be prepared to take Intermediate Algebra (MATH 106)
- Students must be prepared to take Composition and the Spoken Word (ENGL 101).
- Transfer students must have at least a 2.0 GPA.

## Program Requirements:

(Curriculum 0640)

Semester I		Credits
JUST 101	Intro. to Criminal Justice	3
ENGL 101	Composition and the Spoken Word	3
CITA 110	Intro. to Information Technology	3
MATH 106	Intermediate Algebra**	3
PSYC 101	Introductory Psychology	3
		15
<b>Semester II</b>		
JUST 105	Correctional Philosophy	3
JUST 112	Criminal Law and Procedure	3
SOCI 101	Introduction to Sociology	3
	Humanities Elective (GER)	3
	Natural Science w/Lab (GER)	3-4
		15-16

### Emphasis A: Law Enforcement

Semester III		
JUST 201	Critical Issues in Crim. Justice *	3
JUST 209	Law Enforce. Communications	3
	American History Elective (GER)	3
	Lib. Arts Elective (any GER)	3
	General Elective	3
		15

### Semester IV

JUST 203	Criminal Investigation	3
JUST 207	Police Services	3
JUST 210	Intro to Forensic Investigations	3
	Lib. Arts Elective (GER 5, 6, 8, 9)	3
	Lib. Arts Elective (any GER)	3
		15

### OR

### Emphasis B: Corrections Professions

Semester III		
JUST 201	Critical Issues in Crim. Justice *	3
JUST 211	Diagnostic Eval of Offender	3
	American History Elective (GER)	3
	Lib. Arts Elective (GER 5, 6, 8, 9)	3
	General Elective	3
		15

### Semester IV

JUST 215	Community Based Corrections	3
	Program Electives	6
PSYC 275	Abnormal Psychology	3
SSCI 181	Alcohol Drugs & Society	3
		15

### OR

### Emphasis C: Criminal Justice Generalist

Semester III		
JUST 201	Critical Issues in Crim. Justice *	3
JUST 209	Law Enforce. Communications	3
JUST 211	Diagnostic Eval of Offender	3
	American History Elective (GER)	3
	Lib. Arts Elective (any GER)	3
	General Elective	3
		15

### SEMESTER IV

	Program Electives	9
	Lib. Arts Elective (GER 5, 6, 8, 9)	3
	Lib. Arts Elective (any GER)	3
		15

\* Fulfills writing intensive requirement.

GER = General Education Requirement

\*\* Intermediate Algebra (MATH 106) is the minimum level acceptable toward AAS degree. Survey of Mathematics (MATH 111) or College Algebra (MATH 121) is minimum for B.Tech. degrees.

--Introduction to Criminal Justice should be taken as soon as possible.

--Early American History (HIST 103) or Modern US History (HIST 105) is recommended for American History elective.

--A minimum of 60 credit hours with a 2.0 GPA is required to receive the AAS degree in Criminal Justice. Students must take all of the PROGRAM courses and all courses in Emphasis A, Emphasis B, OR Emphasis C (NOT ALL THREE).

## Early Childhood-AS

### Students In This Major:

- Enroll in a course of study offering 12 courses specific to early childhood care and education along with general liberal arts courses leading to an associate of science degree
- Participate in early childhood field-based experiences in various childcare settings, including: Head Start Programs, Universal Pre-K, and Kindergarten Public School Classrooms, Child Care Centers, Family Child Care Provider Homes, Nursery, and Pre-School programs.
- Take part in professional development opportunities offered through, seminars, trainings, workshops, and conferences.
- Have access to various learning resources, activity kits, and equipment in our state-of-the-art Early Childhood Undergraduate Teacher Center & Classroom located in Cook Hall.
- Prepare for rewarding careers in Early Care and Education or continue academic studies by enrolling in our Bachelor of Business Administration in Early Childhood Care and Management, or transfer to various 4-year degree Programs.

### Program Delivery:

The Associate of Science Degree in Early Childhood can be completed fully online, on campus, or a combination of both. Students can begin enrollment in fall, summer, or spring and attend part or full-time.

### 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 Home-Based Provider

## Career Outlook:

- U.S. Department of Labor projects employment of Preschool Teachers, and Teacher Assistants to grow by 4% from 2019-2029, about as fast as the average for all occupations.
- Certification requirements are increasing for Early Care and Education providers. Associate and bachelor's Degrees are necessary to work in lead positions in childcare facilities and Head Start programs.
- Changes in society and the work-force demand an increase in the availability of high-quality early childcare and education options for families and children from infancy to pre-kindergarten.

### Transfer Opportunities:

SUNY Canton, BBA in Early Childhood Care and Management.....Earn 2 degrees in 4 years!

SUNY Canton Early Childhood graduates attend:

- SUNY Cobleskill, SUNY Plattsburgh, SUNY Oneonta, SUNY Cortland, SUNY Buffalo, SUNY Albany, SUNY Cobleskill
- SUNY Brockport, SUNY New Paltz, SUNY Geneseo, SUNY Potsdam, SUNY Fredonia, College of Saint Rose, Empire State

### Admission Requirements:

- Students must meet entrance requirements and be eligible for enrollment in: Composition & the Spoken Word (ENGL 101).
- 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 BOCES Early Childhood Occupations programs may be eligible for 3-6 college credits toward the Early Childhood Program at SUNY Canton. Refer to the College catalog for a list of BOCES Programs for which we have articulation agreements.

### Program Requirements:

- Students are required to complete NYS Office for Children Trainings: Identification of Child Abuse & Neglect and Foundations in Health, Safety & Nutrition [offered online within our courses]
- Early Childhood students must complete a Health Clearance through the SUNY Canton Davis Health Center; have evidence of a recent physical exam, and updated immunizations.
- For off campus field experiences (ECHD 201) residential students will need to arrange for coordina-

tion of and/or transportation to their assigned placement sites. Distance/ Online students will be complete field experiences in centers and programs near their residence and attend seminars virtually.

(Curriculum 1327)

Semester I		Credits
FYEP 101	First Year Experience	1
ECHD 101	Intro. to Early Childhood (GER 7)	3
ENGL 101	Composition & the Spoken Word	3
PSYC 101	Introduction to Psychology	3
	Science Elec. (GER 5)	3-4
	DEISJ Elective (GER 3)	3
		16-17

### Semester II

ECHD 121	Wellness in Young Children	3
ECHD 131	Infants and Toddlers	3
PSYC 220	Child Development	3
	Math Elective (GER 1)	3
	GER (6,8,9,10,11)	3
		15

### Semester III

ECHD 105	Orientation to EC Field Experience	1
ECHD 125	Curriculum Development	3
ECHD 250	Children with Special Needs	3
ECHD 285*	Iss. & Policies in Early Care & Ed.*	3
	GER (6,8,9,10,11)	3
	General Elective	3
		16-17

### Semester IV

ECHD 201	Early Childhood Field Experiences w/Seminar	4
ECHD 204	Early Childhood Observation	3
ECHD 200	Planning Programs for Young Children	3
	General Elective	3
	General Elective	3
		16

\* Fulfills writing intensive requirement.

GER = General Education Requirement

NOTE: Early Childhood students must meet seven out of ten General Education Requirements.

Student Learning Outcomes can be found at [www.canton.edu/business/early\\_childhood/](http://www.canton.edu/business/early_childhood/).

## Electrical Engineering Technology-AAS

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 are qualified to work as Engineering Technicians, or continue in the four year EET program (B. Tech.), and will have the flexibility to a number of elective courses including Mathematics as minor.

## Program Educational Objectives

- (1) Provide industry with well qualified technicians for entry level positions in the Electrical Engineering Technology field;
- (2) Provide transferability for students who are interested in baccalaureate degree programs at SUNY Canton or other institutions with related programs;
- (3) Be ready to expand knowledge in engineering profession through continuing education, or other lifelong learning experiences;
- (4) Be committed to quality, timeliness and respect for diversity.

## Student Learning Outcomes

What students are expected to know and be able to do by the time of graduation:

- (1) An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline;
- (2) An ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline;
- (3) An ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature
- (4) An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results; and
- (5) An ability to function effectively as a member of a technical team.

## 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
- Electrical Power Technician
- Communications Technician

## Career Outlook:

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
- Novelis

- Schlumberger
- Siemens
- National Grid
- ALCOA
- Schneider Packing Equipment
- Corning
- New York Power Authority
- TRC
- C & S Engineers, Inc.
- NYSEG
- Verizon

## Bachelor's Degree in Electrical Engineering Opportunity:

- Graduate from the AAS degree in Electrical Engineering Technology may continue in the B. Tech degree program, and all courses are transferred into the Bachelor's Degree program to allow student to complete his/her studies in two years.

## Accreditation:

- Accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, 415 N. Charles Street Baltimore, MD 21201 – 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 mathematics requirements before admission to this program, or they may complete one year certificate before starting the degree program.

## Program Requirements:

(Curriculum 0699)

Semester I	Credits
ELEC 101 Electric Circuits I .....	3
ELEC 109 Electric Circuits I Lab. ....	1
ELEC 161 Electronic Fabrication .....	2
SOET 116 Intro to CAD and Design ...	2
ENGL 101 Composition & the Spoken Word .....	3
MATH 123 Pre-Calculus Algebra .....	4
FYEP 101 First Year Experience .....	1
	<hr/> 16
Semester II	Credits
ELEC 102 Electric Circuits II .....	3
ELEC 129 Electric Circuits II Lab.1	
ELEC 141 Industrial Controls.....	2
ELEC 165 Digital Fund & Systems .....	3
ELEC 166 Digital Fund & Systems Lab 1	
Diversity Elective (GER 3) ...	3
MATH 161 Calculus I.....	4
	<hr/> 17
Semester III	Credits
ELEC 213 Microprocessors * .....	3
ELEC 215 Elec. Energy Conversion ...	4
ELEC 231 Electronic Circuits.....	4
ENGS 102 Prog. for Engineers .....	2
PHYS 121/131 College Physics I OR University Physics I .....	3
PHYS 125/135 Physics Lab I.....	1
	<hr/> 17

## Semester IV

ELEC 203 Engineering Technology Project.....	1
ELEC 225/383 Telecommunications OR Power Transmission & Distribution.....	3
ELEC 332 Industrial Electronics.....	3
ELEC 243 Computer Auto Control Systems.....	2
PHYS 122/132 College Physics II OR University Physics II .....	3
PHYS 126/136 Physics Lab II.....	1
SOET 377 *Engineering Ethics .....	1
	<hr/> 14

*v Though Engineering Safety is not required for AAS curriculum, Advisory Board suggest it will be helpful for a student to consider taking Engineering Safety Course SOET 349 or SOET 348.*

*\*Fulfills writing intensive requirement.*

Student Learning Outcomes can be found at [www.canton.edu/csoet/elec\\_eng\\_tech/](http://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 with a minimum GPA of 2.0 for all such credits taken.

## Engineering Science-AS

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
- Chemical 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  
Dual Admission Available - Earn an Associates at SUNY Canton and a Bachelor's at 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.

Semester I	Credits
ENGS 101 Intro. to Engineering .....	2
CHEM 150 College Chemistry I .....	4
ENGL 101 Composition & the Spoken Word .....	3
MATH 161 Calculus I.....	4
PHYS 131 University Physics I .....	3
PHYS 135 University Physics Lab I.....	1
	<hr/> 17
Semester II	Credits
ENGS 102 Programming For Engineers.....	2
CHEM 155 College Chemistry II .....	4
Diversity Elective (GER 3) ...	3
MATH 162 Calculus II.....	4
PHYS 132 University Physics II.....	3
PHYS 136 University Physics Lab II.....	1
	<hr/> 17

<b>Semester III</b>	
ENGS 201 Statics .....	3
ENGS 205 Nature & Properties of Materials .....	3
MATH 263 Calculus III .....	4
ECON 103 Principle of Microeconomics .....	3
Program Elective * .....	3
	16

<b>Semester IV</b>	
ENGS 202 Dynamics .....	3
ENGS 263 Electric Circuits .....	3
ENGS 264 Electric Circuits Lab .....	1
Program Elective ** .....	3
MATH 364 Differential Equations .....	4
	14

Student Learning Outcomes can be found at [www.canton.edu/csuet/eng\\_sci.html](http://www.canton.edu/csuet/eng_sci.html).

## General Technology-AAS

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)

<b>Semester I</b>	
ENGS 101 Intro. to Engineering Technical Design OR Drafting .....	2-3
ENGL 101 Composition and the Spoken Word .....	3
MATH 123 Pre-Calculus Algebra .....	4
PHYS 121 College Physics I .....	3
PHYS 125 Physics I Lab .....	1
	15-16
<b>Semester II</b>	
ENGS 102 Prog. for Engineers .....	2
MECH 128 Electromechanical Technology .....	3
Social Science Elective .....	3
Math Elective** .....	4
Science Elective w/lab .....	4
	16
<b>Semester III</b>	
Program Elective*** .....	9
Math Elective ** .....	3
Humanities Elective ..	3
	15
<b>Semester IV</b>	
Program Electives*** .....	12
General Elective .....	3
	15

\* 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 MATH121 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, MECH, MFGT, MATH, MSPT, PHYS, and SOET.

Student Learning Outcomes can be found at [www.canton.edu/csuet/general.html](http://www.canton.edu/csuet/general.html).

## HVAC Engineering Technology-AAS

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:

- Communicate effectively and professionally in the building environment through proper use of verbal, written, and graphic techniques.
- Develop mathematical skills in algebra, trigonometry, and calculus, using analytical problem solving methods.
- Be proficient and apply mathematics, fluid mechanics, thermodynamics, and principle of heat transfer to air conditioning designs.
- Employ logical and concise analytical techniques to solve technical problems.
- Demonstrate the capability to develop engineering drawings for HVAC projects.
- Develop skills using specific codes, ASHRAE standards and handbooks.
- Demonstrate a thorough knowledge of HVAC components and how to use as a system to maintain design conditions.

### 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.
- Pro Air Plus
- Siemens
- T.P. Woodside, Inc.
- Bomac
- Hyde-Stone
- DeLaval
- GEMMA Power Systems

### Accreditation:

- Accredited by the Engineering Technology Accreditation Commission

(ETAC) of ABET, 415 N. Charles Street Baltimore, MD 21201 – Telephone (410) 347-7700.

### Admission Requirements:

- Students must be qualified to enter Pre-Calculus Algebra (MATH 123)

### Program Requirements:

(Curriculum 0444)

<b>Semester I</b>	
ENGS 101 Intro. to Engineering .....	2
ENGL 101 Composition & Spoken Word .....	3
MATH 123 Pre-Calculus Algebra .....	4
SOET 116 Computer Drafting .....	2
PHYS 121/131 College or University Physics I .....	3
PHYS 125/135 College or Univ. Physics Lab I .....	1
	15
<b>Semester II</b>	
GER 6 Humanities Elec. (GER 6) .....	3
MATH 161 Calculus 1 .....	4
HVAC 101 Refrigeration I Lab .....	2
HVAC 102 Refrigeration I Lab .....	2
SOET 250 Intro to 3D CAD and BIM ..	2
CITA 220 Data Comm. and Networking .....	3
CITA 221 Data Comm. and Networking Lab .....	1
	17
<b>Semester III</b>	
ACHP 243 Air Conditioning I .....	3
ACHP 253 Domestic and Comm. Heating I .....	4
HVAC 201 HVAC Electrical and Motor Controls .....	2
HVAC 202 HVAC Electrical and Motor Controls Lab .....	2
MECH 241/ENGS 314 Fluid Mechanics .....	3
HVAC 110 Plumbing .....	3
	17
<b>Semester IV</b>	
ACHP 254 Domestic and Comm. Heating II .....	4
ACHP 264 Air Conditioning System Design .....	1
PHYS 122/133 College or University Physics II .....	3
PHYS 126/136 College or Univ. Physics Lab II .....	1
ACHP 201 Building Controls .....	3
GER 3 GER Elective Diversity .....	3
	15

\* Fulfills writing intensive requirement.

Student Learning Outcomes can be found at [www.canton.edu/csuet/air\\_cond.html](http://www.canton.edu/csuet/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 HVAC ET curriculum and earning a minimum GPA of 2.0 for all such credit hours taken while under the direct advisement of the program faculty.

## HVAC Trades-AOS

There's a growing demand nationwide for technicians specializing in heating, ventilation, air conditioning (HVAC)

and refrigeration. Climate-control systems are becoming increasingly sophisticated, necessitating the need for advanced training.

Courses in the new major include hands-on labs specializing in the installation, troubleshooting and repair of HVAC systems, in addition to computers, motor controls, commercial refrigeration, and plumbing. It will also incorporate business and humanities courses to further prepare students for their professional careers.

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 Sustainable Energy Technology or Industrial Technology Management at SUNY Canton. Students also pursue baccalaureate degrees at other institutions.

### Students In This Major:

- Communicate effectively and professionally in the building environment through proper use of verbal, written, and graphic techniques.
- Develop mathematical skills in algebra, trigonometry, and calculus, using analytical problem solving methods.
- Be proficient and apply mathematics, fluid mechanics, thermodynamics, and principle of heat transfer to air conditioning designs.
- Employ logical and concise analytical techniques to solve technical problems.
- Demonstrate the capability to develop engineering drawings for HVAC projects.
- Develop skills using specific codes, ASHRAE standards and handbooks.
- Demonstrate a thorough knowledge of HVAC components and how to use as a system to maintain design conditions.

### Career Opportunities:

- Service Technicians
- HVAC Contractors
- Designers
- HVAC Sales
- Controls Specialists

### 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 Engineering Technology Accreditation Commission (ETAC) of ABET, 415 N. Charles Street Baltimore, MD 21201 – Telephone (410) 347-7700.

### Admission Requirements:

- Refer to the table of high school course prerequisites for admission.
- Students must be qualified to enter Intermediate Algebra (MATH 106)

### Program Requirements:

(Curriculum 2953)

Semester I	Credits
MATH 106 Intermediate Algebra .....	3
ENGL 101 Composition and the Spoken Word (GER 1&2) ..	3
HVAC 103 Hydronics .....	3
HVAC 104 Hydronics Lab .....	2
CITA 110 Intro to Info. Technology ....	1
CONS 151 Building Trades – Blueprint Reading & Drafting .....	2
	<hr/> 16

Semester II	Credits
HVAC 101 Refrigeration I .....	2
HVAC 102 Refrigeration I Lab .....	3
HVAC 105 Forced Air Systems .....	3
HVAC 106 Forced Air Systems Lab ....	2
HVAC 110 Plumbing .....	3
Liberal Arts Elective .....	3
	<hr/> 15

Semester III	Credits
HVAC 201 HVAC Elec. and Motor Control .....	2
HVAC 202 HVAC Elec. Motor Controls Lab .....	2
HVAC 205 HVAC Service and Repair Coordination .....	3
General Elective .....	3
General Elective .....	3
GER Elective 6 .....	3
	<hr/> 16

Semester IV	Credits
HVAC 203 Commercial Refrigeration	2
HVAC 204 Commercial Refrigeration Lab II .....	3
ACHP 105 Refrigeration SYSTEM Design .....	2
AREA 210 Sustainable Building .....	3
GER Elective 3 .....	3
	<hr/> 13

1 Mathematics level depends on previous preparation. Applied College Mathematics (MATH 101) is the minimum requirement. Math 106 Intermediately Graduation Requirements: Total Semester Credit Hours – G.P.A. 2.0 min.

Student Learning Outcomes can be found at [www.canton.edu/soet/hvac-aos/](http://www.canton.edu/soet/hvac-aos/).

### Individual Studies–AAS

### 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 Composition and the Spoken Word (ENGL 101).
- 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)

English/Humanities .....	6
Social Science .....	6
Natural Sciences and/or Mathematics	6
Applied Electives * .....	21
Liberal Arts Elective .....	3
General Electives .....	18
First Year Experience .....	1
	<hr/> 61*

\*All students must take a writing intensive course.

Student Learning Outcomes can be found at [www.canton.edu/business/individual.html](http://www.canton.edu/business/individual.html).

### Liberal Arts and Sciences: General Studies–AA, AS

### 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.
- The Liberal Arts degree can be completed fully online, on campus, or a combination of both.
- 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.

### Transfer Opportunities:

- 30 SUNY Canton Bachelor's Degree Programs: <https://www.canton.edu/academics/degrees.html>
- SUNY Higher Education Institutions: <https://explore.suny.edu/>
- St. Lawrence University
- State University Centers at Albany, Buffalo, and Binghamton
- Clarkson University

### Admission Requirements:

- Prepared to take Composition & the Spoken Word (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:

(Curriculum 0250)

AA Degree	Credits
ENGL 101 Composition & the Spoken Word .....	3
FYEP 101 First Year Experience .....	1
Literature OR Humanities GER 6 .....	3
Humanities Elective .....	3
The Arts OR World Language (GER 8, 9 11) .....	3
US History OR World History (GER 9,10) .....	3

Diversity: Equity, Inclusion & Social Justice (GER 3).....	3
Social Science (GER 7) .....	3
GER Elective .....	3
Mathematics (GER 4) <sup>1</sup> .....	3
Natural Science (GER 5) <sup>2</sup> .....	4
Liberal Arts Electives.....	15
General Electives .....	15

The A.A Degree requires minimum, 45 semester hours In Liberal Arts

60-624

#### AS DEGREE

ENGL 101 Composition & Spoken Word .....	3
FYEP 101 First Year Experience.....	1
Literature OR Humanities GER 6 .....	3
The Arts or World Language (GER 8, 9, 11) .....	3
US History OR World History (GER 9,10) .....	3
Diversity: Equity, Inclusion & Social Justice (GER 3).....	3
Social Science (GER 7) .....	3
Mathematics (GER 4) <sup>1</sup> .....	3
Lab Science (GER 5) <sup>2</sup> .....	4
Liberal Arts Electives.....	6
General Electives .....	30

The A.S. Degree requires minimum, 30 semester hours in Liberal Arts

60-624

1 Minimum level Intermediate Algebra (MATH 106) or Survey of Math (MATH 111)

2 Science course must be a laboratory 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](http://www.canton.edu/business/libarts.html).

Advisor Note:

- Transfer students: May transfer a 3 or 4 credit \*Lab Science or Science [GER 2]
- Option to waive \*\*FYEP 101

## Mechanical Engineering Technology--AAS

Graduates of Mechanical Engineering Technology (MET) work in a wide range of industries with a broad array of career opportunities. From manufacturing (CNC Machinist) and construction to equipment testing and power generation, employment opportunities exist in CAD Design, product/system testing, quality improvement, and technical services support. The MET program is appropriate for individuals who like hands-on experience, enjoy technology, and aspire to the challenge of experimentation and problem solving.

### Students In This Major:

- Practice and demonstrate hands on manufacturing skills related to machining, design and drafting, fluid power, mechanical design and electricity.
- Develop core skills in Science, Technology, Engineering and Mathematics to commence their career immediately upon graduation or to continue with the pursuit of a baccalaureate degree.
- Apply computer skills to design, interpret and analyze data, solve

problems and prepare reports/presentations for professional communications.

- Apply the scientific and technical knowledge 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:

- Corning, Inc.
- CIVES Steel Co.
- FilterTech
- Viking-Cives, USA
- Schneider Packaging
- TRC
- Gleason Works
- Bombardier, Inc.
- Novelis

### 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 Engineering Technology)
- SUNY Utica/Rome
- Rochester Institute of Technology
- SUNY Alfred
- SUNY Buffalo

### Accreditation:

- Accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, 415 N. Charles Street Baltimore, MD 21201 – 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)

Semester I	Credits
MATH 123 Pre-Calculus (GER 1) .....	4
MECH 121 Manufacturing Processes I 3	
ENGS 101 Intro.n to Engineering .....	2
PHYS 121/131 College/University Physics I (GER 2) .....	3
PHY 125/135 Physics Lab 1 (GER 2) ..	1
MECH 101 Drawing for Engineers .....	1
	14

Semester II	Credits
MATH 161 Calculus I.....	4
ENGL 101 Composition & The Spoken Word .....	3
PHYS 122/132 College/University Physics II .....	3
PHYS 126/136 Physics Lab 2.....	1
MECH 102 Parametric Modeling.....	2
MECH 122 Intro. to 3D Printing .....	1
Elective <sup>1</sup> .....	2
	16

Semester III	Credits
Elective1 .....	3
ENGS 201 Statics .....	3
MECH 261 MET Electricity .....	4
MECH 241/ENGS 314 Fluid Mechanics / Fluid Mechanics I .....	3
MECH 242 Fluid Power Lab .....	1
GER (6, 7, 8, 9, 10, 11) <sup>3</sup> .....	3
	17

Semester IV	Credits
ENGS 203 Engineering Strength of Materials .....	3
ENGS 205 Material Science .....	3
MECH 221 MET Lab <sup>2</sup> .....	1
Elective <sup>1</sup> .....	3
MECH 303 GD&T (Geometric Dimensioning and Tolerancing) .....	2
Diversity Elective.....	3
	15

1 Program electives selected from ACHP, AREA, ENGS, CITA, CONS, ELEC, MATH, MECH, SOET designators and AUTO 104. If going into the 4-yr MET, take MATH 162 (Calculus II) and MECH 301/ENGS 202.

2 Writing intensive course.

3 GER elective – Must have GER (1/2, 3, 4, 5) and 20 total credits. Select one more from 6-11:

Student Learning Outcomes can be found at [www.canton.edu/soet/mech\\_eng.html](http://www.canton.edu/soet/mech_eng.html).

## Nursing--AAS

### Students In This Major:

- Make judgments in practice, substantiated with evidence, that integrate nursing science in the provision of safe, quality care and that promote the health of patients within a family and community context.
- Minimize risk of harm to patients and providers through both system effectiveness and individual performance.
- Use information and technology to communicate, manage knowledge, mitigate error, and support decision-making.
- Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to evidence-based practice, caring,

advocacy, and safe, quality care for diverse patients within a family and community context.

- Function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care.
- Advocate for clients and families in ways that promote their self-determination, integrity, and ongoing growth as human beings.
- Recognize the client or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for client's preferences, values, and needs.
- Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve the quality of care for patients, families, and communities.
- Use data to monitor the outcomes of care processes and use improvement methods to design and test changes to continuously improve the quality and safety of health care systems
- Integrate best current evidence with clinical expertise and patient/family preferences and values for delivery of optimal health care.

### Career Outlook:

- Nursing is the largest health care occupation.
- There is increasing diversity in nursing employment, and projections indicate large numbers of new jobs

### Career Opportunities:

- Hospitals and outpatient clinics
- Long-term care facilities
- Community health agencies
- Schools
- Correctional Facilities
- Military Service

### 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:

- Registered by the NYS Education Department, Office of the Professions State Education Building-2nd Floor, Albany NY 12234, and phone: 518-474-3817.
- Accredited by the Accreditation Commission for Education in Nursing, 3390 Peachtree Road, Suite 1400, Atlanta, Georgia 30326, and phone: 404-975-5000.

### Admission Requirements:

Admission requirements can be found online at: [www.canton.edu/sci\\_health/nurs/description.html](http://www.canton.edu/sci_health/nurs/description.html)

## Program Requirements:

(Curriculum 0622)

Semester I	Credits
NURS 101 Fundamentals of Nursing ..	6
NURS 103 Pharmacology I .....	1
NURS 105 Nursing Seminar .....	1
BIOL 217 Human Anatomy & Physiology I .....	4
ENGL 101 Composition & the Spoken Word .....	3
	15
<b>Semester II</b>	
NURS 104 Pharmacology II .....	1
NURS 106 Maternal/Newborn Nursing .....	4.5
NURS 107 Mental Health Nursing ..	4.5
BIOL 218 Human Anatomy & Physiology II .....	4
PSYC 101 Introduction to Psychology ..	3
	17
<b>Semester III</b>	
NURS 200 Pharmacology III .....	1
NURS 201 Medical-Surgical Nursing I .....	10
BIOL 209 Microbiology .....	4
PSYC 225 Human Development OR PSYC 220 Child Development** .....	3
	18
<b>Semester IV</b>	
NURS 202 Medical-Surgical Nursing IV .....	10
NURS 203 Profes. Issues & Trends in Nursing* .....	1
NURS 204 Pharmacology IV .....	1
	12

\* Fulfills writing intensive requirement.

\*\* co-requisite for NURS 201, Pre-requisite for NURS 202

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/nursing/](http://www.canton.edu/sci_health/nursing/).

—Enrolled students are required to purchase a standardized testing program. A tablet or laptop computer is required.

—CPR certification (Health Provider Status) is required prior to admission. Only American Heart Association CPR certification will be accepted.

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 2 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 Director.

—Of the five clinical nursing courses (NURS 101, 106, 107, 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 (NURS),, and a grade of C or better is required for all co-requisite courses.

—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.

## Physical Therapist Assistant—AAS

### 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.
- Develop professional behaviors required to be an effective member of the healthcare team.
- Are eligible to take the National Physical Therapy Examination for the Physical Therapist Assistant after graduation.

### Career Opportunities:

- PTA's work in hospitals, nursing homes, rehabilitative centers, certified home health care agencies, private practices, and schools.

### Career Outlook

- According to the 2022 Occupational Outlook Handbook, employment for PTA's is projected to grow 32% between 2020-2030.
- PTA ranked in the top 10 of jobs in high demand that don't require a bachelor's degree. (Smith 2021, cnbc.com)

### Transfer Opportunities:

- Students can continue their studies in the Health and Fitness Promotion B. Tech program. The B. Tech program may assist students in meeting admissions requirements for a graduate or doctoral degree program or to enhance employment opportunities in the health and fitness field.

### Accreditation:

- The PTA program at SUNY Canton is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave., Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: [accreditation@apta.org](mailto:accreditation@apta.org); website: <http://www.capteonline.org>.

### Admission Requirements:

The Physical Therapist Assistant Program is a selective admissions program. Admission requirements and details of the admissions process can be found online at [www.canton.edu/sci\\_health/pta/](http://www.canton.edu/sci_health/pta/)

### Program Requirements:

(Curriculum 0489)

Semester I	Credits
PHTA 100 Intro. to Physical Therapy ..	2
PHTA 101 Fund PT Skills & Modalities 4	
BIOL 217 Human Anatomy & Physiology I .....	4

ENGL 101 Composition and the Spoken Word .....	3
PSYC 101 Introductory Psychology .....	3
	16

Semester II	Credits
PHTA 102 Kinesiology .....	3
PHTA 103 Musculoskeletal Pathologies 4	
PHTA 105 Musculoskeletal Assessment Techniques .....	1
BIOL 218 Human Anatomy & Physiology II .....	4
PSYC 225 Human Development .....	3
PHTA 104 Clinical I (summer) .....	4
	19

Semester III	Credits
PHTA 203 PTA Seminar I * .....	2
PHTA 204 Cardiopulmonary & Integumentary Pathologies .....	4
PHTA 205 Neuromuscular Pathologies 4	
PHTA 206 Advanced PT Modalities .....	2
Liberal Arts Elective .....	3
	15

Semester IV	Credits
PHTA 207 ** Clinical II .....	6
PHTA 209 ** Clinical III .....	6
PHTA 210 PTA Seminar II .....	2
	14

\* 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.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/pta/](http://www.canton.edu/sci_health/pta/).

—CPR certification (Health Provider Status) is required by the end of the first semester.

—Students may be required to submit to a drug screen and/or a criminal background check as part of clinical education requirements.

—To progress in the PTA curriculum a minimal grade of C in BIOL 217 & BIOL 218 and C+ in all curriculum courses prefixed with PHTA must be achieved.

—Of all PHTA prefixed courses, only one course may be repeated one time.

—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 Requirement: 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

## Veterinary Science Technology—AAS

### 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 two 120 hour Preceptorships

## 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:

- Veterinary Technician has been listed as one of Money Magazine's "Top 10 Fastest Growing Career Fields."
- 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 Administration, BBA)

## 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 based on academic credentials. To be considered for admission, please refer to the requirements posted on our webpage at [www.canton.edu/sci\\_health/vet/description.html](http://www.canton.edu/sci_health/vet/description.html)

The pre-exposure rabies vaccine is required in the program. This is administered in a series of two vaccinations and must be completed during or prior to the semester the student is enrolled in VSCT 101

## Program Requirements:

(Curriculum 0521)

Semester I	Credits
VSCT 101 Fundamental Vet. Nursing Skills I.....	2
VSCT 103 Intro. to Animal Agriculture	2
BIOL 150 College Biology I.....	4
CHEM 150 College Chemistry I.....	4
ENGL 101 Expository Writing OR ENGL 101 Composition & the Spoken Word.....	3
FYEP 101 First Year Experience.....	1
	<hr/> 16
Semester II	Credits
VSCT 104 Veterinary Office Practices .	1
VSCT 112 Vet. Clinical Pathology I.....	3
VSCT 114 Animal Anatomy & Physiology.....	3
VSCT 115 Fundamental Vet. Nursing Skills II.....	2

VSCT 212 Research Animal Techniques.....	1
VSCT 201 Veterinary Technology Preceptorship I.....	1
BIOL 209 Microbiology.....	4
Liberal Arts Elective (GER 1, 4, 5, 6, 7, 8, 9)...	3
	<hr/> 18
Semester III	Credits
VSCT 202 Vet. Clinical Pathology II.....	3
VSCT 203 Small Animal Medicine & Therapeutic Techniques.....	3
VSCT 204 Large Animal Medicine & Therapeutic Techniques.....	2
VSCT 205 Radiographic Techniques.....	2
VSCT 206 Anesthetic Principles.....	3
VSCT 207 Health & Disease of Farm Animals.....	3
VSCT 209 Veterinary Technology Preceptorship II.....	1
	<hr/> 17

Semester IV	Credits
VSCT 210 Veterinary Microbiology.....	3
VSCT 211 Animal Hospital Practices and Procedures *.....	3
VSCT 213 Practical Nutrition.....	2
VSCT 214 Veterinary Pharmacology.....	2
PSYC 101 Introductory Psychology.....	3
	<hr/> 13

\* Fulfills writing intensive requirement.

— Of the courses with the VSCT prefix, any course may only be repeated one time.

— Students are required to earn a C or better in all specified curriculum courses prefixed with VSCT in order to progress in the program.

— The NYS Education Department Office of the Professions requires persons applying for licensure to answer questions related to a conviction of a crime or professional misconduct.

Student Learning Outcomes can be found at [www.canton.edu/sci\\_health/vet\\_tech/](http://www.canton.edu/sci_health/vet_tech/).

Residency Requirement: In order to graduate from the Veterinary Science Technology program, students must successfully complete SUNY Canton's VSCT 211 and at least 9 other hours of graded course work with a VSCT prefix in order to fulfill the residency requirement.

# CERTIFICATE PROGRAMS

## Electrical Construction & Maintenance—Certificate

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
- Security Systems Sales and Service Representative
- Power Corporation Service Representative
- Entrepreneurship

### Career Outlook:

- The construction industry continues to exhibit a demand for skilled electrical technicians.

## 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, Oswego
- 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)

Semester I	Credits
CONS 112 Wood Structures.....	3
ECMR 101 Electricity for Trades.....	3
ECMR 103 Electricity for Trades Lab.....	4
MATH 101 *Applied College Mathematics or higher.....	4
ECMR 175 Photovoltaic Solar Installers.....	3

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Semester II	Credits
ECMR 102 Electricity for Trades II.....	3
ECMR 104 Electricity for Trades II Lab	4
ENGL ___ English (Writing).....	3
ECMR 173 Intro to National Electrical Code.....	3
___ ___ Math/Science/Technical Elective**.....	3
	<hr/> 16

\*Mathematics levels depend on previous preparation. (MATH 101) is the minimum requirement, (MATH 106 Intermediate Algebra may be substituted). Those graduates who show sufficient interest and aptitude may qualify for entry into one of the associate degree programs.

\*\*Approved by advisor, prerequisites must be satisfied, selected from any of the following designators: ACHP, AREA, BIOL, CHEM, CITA, CONS, ELEC, ENGS, ESCI, MATH, MECH, MFGT, MINS, PHSC, PHYS, SOET, or TMMMA.

Graduation Requirements: Total Semester Credit Hours - 33. Graduates must complete all courses listed above and earn a cumulative index of at least 1.75.

Student Learning Outcomes can be found at [www.canton.edu/csot/ecm.html](http://www.canton.edu/csot/ecm.html).

Those graduates who show sufficient interest and aptitude may qualify for entry into one of the associate degree programs.

Gainful Employment information is available at: [www.canton.edu/academics/ge/ecm.html](http://www.canton.edu/academics/ge/ecm.html)

## Practical Nursing—Certificate

### Students In This Certificate Program:

- Demonstrate appropriate care to clients with stable and predictable conditions.
- Understand client disorders and nursing care utilizing current evidence based practice.
- Demonstrate developmentally appropriate, respectful and effective therapeutic communication skills.
- Identify clinical scenarios and

- situations that fall outside of the PN scope of practice.
- Demonstrate, proper technique with nursing skills, use of client care equipment and technology in a cost effective manner.
- Comprehend client environmental factors, family support, and resources that may affect a client's health status.
- Demonstrate accountability for legal, ethical, and regulatory parameters within the scope of practice of the practical nurse.
- Operate effectively within multidisciplinary teams, fostering open communication, mutual respect, and shared decision-making to provide comprehensive client centered care.
- Collect data and health histories for individuals using standardized tools in an organized pattern, thereby contributing to nursing care plan.
- Demonstrate caring behaviors toward clients and his/her significant others, thereby assisting coping with stressful events and changes in health status.
- Implement standardized teaching tools to promote and maintain health and to reduce risks for clients experiencing common altered health states in the hospital and extended care facilities.
- Observe, reflect, and participate in self-performance and peer-to-peer teaching.

### Career Opportunities:

- Acute care
- Long-term care
- Clinic settings
- Physician Offices
- Hospice
- Community Health
- Mental Health

## Transfer Opportunities:

- Graduates of the Practical Nursing program are able to transfer into an associates degree or baccalaureate degree nursing programs.

## ACCREDITATIONS:

- Registered by the NYS Education Department, Office of the Professions State Education Building-2nd Floor, Albany NY 12234, and phone: 518-474-3817.
- Accredited by the Accreditation Commission for Education in Nursing, 3390 Peachtree Road, Suite 1400, Atlanta, Georgia 30326, and phone: 404-975-5000.

## Admission Requirements:

Admission requirements can be found online at: [www.canton.edu/sci\\_health/practical-reqs.html](http://www.canton.edu/sci_health/practical-reqs.html)

## Program Requirements:

(Curriculum 0938)

Semester I	Credits
LPNC 100 Drug Dosage Calc. & Pharm.....	3
LPNC 101 PN Fundamentals.....	8
BIOL 217 Human Anatomy & Physiology I.....	4
ENGL 101 Composition & Spoken Word.....	3
	18
Semester II	Credits
LPNC 102 PN Specialty Populations....	3
LPNC 103 PN Medical-Surgical.....	8
BIOL 218 Human Anatomy & Physiology II.....	4
PSYC 101 Introduction to Psychology.....	3
	18

—Students must complete all LPNC courses with a minimal grade of C+ in order to graduate and corequisite courses with a grade of C or better.

—GPA of 2.0 or better is required to continue in the program.

—Of the two clinical practical nursing courses (LPNC 101, LPNC 103), only one may be repeated one time.

—Students will complete clinical experiences in hospitals, long-term care facilities, and community agencies throughout Northern New York. Clinical hours may include day, evening, and weekend hours. The college does not provide transportation to clinical sites.

Residency Requirements: Students must complete SUNY Canton's LPNC 102 and LPNC 103 in order to complete the program residency requirements.

—Enrolled students are required to purchase a standardized testing program. A tablet or laptop computer is required.

—CPR certification (Health Provider Status) is required prior to admission and throughout the program.

Gainful Employment information is available at: [www.canton.edu/academics/ge/pn.html](http://www.canton.edu/academics/ge/pn.html)

# ACADEMIC MINORS

## Academic Minors

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. major, students may be permitted to postpone their graduation if they wish to take extra course(s) to earn their minor. **IMPORTANT!** Before making that decision however, it is strongly recommended that students consult with a Financial Aid and/or Student Accounts Counselor.

### ACADEMIC MINOR IN A BACCALAUREATE DEGREE

A minor must be declared while the student has at least 45 credit hours left to enroll in before qualifying for graduation.

### ACADEMIC MINOR IN AN ASSOCIATE DEGREE

A minor must be declared while the student has at least 15 credit hours left to enroll in before qualifying for graduation.

## ACCOUNTING

The Accounting Minor adds to the skill-set and marketability of students preparing to enter the worlds of business and management. Accounting Minors advance their foundational accounting acumen by completing three required accounting courses (ACCT 300, ACCT 302, & ACCT 306) and three accounting electives that reflect their respective areas of interest. The Minor is available to any matriculated SUNY Canton student. Many students choose to pair enrollment in the Accounting Minor with enrollment in the Management, Finance, Legal Studies, or Health Care Management Program.

### MINOR REQUIREMENTS:

	Credits
ACCT 300 Intermediate Accounting I..	3
ACCT 302 Intermediate Accounting II..	3
ACCT 306 Cost Accounting.....	3
SELECT THREE COURSES	
ACCT 242 Accounting for Government and Nonprofit Organizations .....	3
ACCT 310 Accounting Information Systems.....	3
ACCT 335 Individual Taxation.....	3
ACCT 430 Auditing.....	3
ACCT 440 Advanced Financial Accounting.....	3
BSAD 305 Public Budgeting and Fiscal Mgmt.....	3
BSAD 365 Financial Statement Analysis.....	3

## AGING IN SOCIETY

People are living longer, and the number of older persons is increasing. These trends are evident in American society, as well as in many developed countries around the world. In the U.S., life expectancy has increased, from approximately 45 years of age in 1900 to more than 75 years now. At the beginning of the 21st century, one in eight people in the U.S. was over 65. And the age group growing fastest in our society and in many other countries is the "very old," people aged 85 and over.

This growth in our elderly population will continue into the future. By the middle of the 21st century, one in five Americans will be over 65, and there will be 15 to 18 million persons over the age of 85. These growth trends will result in a demand for both citizens and professionals with knowledge and expertise in the subject of aging. The area of Social Gerontology will offer expanded career opportunities for the disciplines and professions who will serve our older population (The Association for Gerontology in Higher Education, 2014).

### MINOR REQUIREMENTS:

	Credits
HLTH 104 Intro. to Gerontology.....	3
SOCI 101 Introduction to Sociology...	3
SELECT FOUR COURSES	
Only one additional 100 level course can be chosen; three must be upper level- 300 or above	
FSAD 307 Human Responses to Death .....	3
HEFI 202 Health and Wellness Across the Lifespan.....	3

HLTH 103 Health Current Perspectives and Practical Applications	3
HLTH 212 Happiness, Health and Wellbeing.....	3
GRST 201 Introduction to Gender Studies .....	3
HUSV 201 Introduction to Human Services.....	3
PSYC 225 Human Development .....	3
SOCI 105 American Social Problems ..	3
SOCI 210 Sociology of the Family .....	3
SOCI 313 Women and Ageing .....	3
SOCI 320 Sociology of Health, Illness and Health Care .....	3
SOCI 330 Sociology of Gendered Lives .....	3
SSCI 315 Death, Dying and Bereavement .....	3

## APPLIED PHYSICS

Psychology is the science of behavior and mental processes, and its applications are relevant to many different fields of study. The Minor in Applied Psychology is designed to complement the training and education students receive in their respective academic majors, particularly in terms of describing, predicting, understanding, and explaining human behavior. The minor is organized so that students have a choice regarding the content that is most applicable to their own interests (and major). The requirements are 18 credit hours, from the following designations:

### MINOR REQUIREMENTS:

	Credits
PHYS 121 College Physics I OR	
PHYS 131 University Physics I .....	4
PHYS 122 College Physics II OR	
PHYS 132 University Physics II.....	4
PHYS 202 Modern Physics .....	3
PHYS 301 Introduction to Photonics ...	3

## SELECT TWO COURSES

PHYS 330 Intro to Classical Mech. ....	3
PHYS 340 Electromagnetism.....	3
PHYS 410 Solid State Science .....	3
PHYS 420 Intro to Quantum Mech.....	3
AREA 320 Experimentation and Measurement I .....	3
MECH 342 Thermodynamics .....	3

## APPLIED PSYCHOLOGY

Psychology is the study of the mind and behavior. As a science and profession, psychology is relevant to any major that involves understanding, helping, communicating, and working with others, including (but not limited to) Nursing, Criminal Justice, Health and Fitness Promotion, Homeland Security, Sports Management, Legal Studies, Management, and Health Care Management.

The purpose of the Minor in Applied Psychology is to provide students pursuing other academic majors with the opportunity to: (1) broaden their understanding of psychological principles, theories, and methods; and (2) apply this understanding to their future career path. In particular, the focus of this minor is on socio-developmental processes and applications to real life and career settings.

### MINOR REQUIREMENTS

	Credits
PSYC 101 Introduction to Psychology .	3
Select two lower level courses:	
PSYC 225 Human Development .....	3
PSYC 275 Abnormal Psychology.....	3
ABAP 245 Introduction to Applied Behavior Analysis.....	3
HUSV 201 Introduction to Human Services.....	3
Select three upper level courses	
PSYC 300 Cultural Psychology .....	3
PSYC 308 Personality & Individual Differences.....	3
PSYC 315 Crisis Intervention .....	3
PSYC 340 Social Psychology.....	3
PSYC 406 Workplace Psychology.....	3
PSYC 420 Counseling Skills & Procedures .....	3
HEFI/PSYC 320 Psychology of Health and Fitness .....	3
HUSV 305 Professional and Ethical Responsibilities .....	3
HUSV 315 Mental Health Practice .....	3
JUST 331 Profiling and Behavioral Criminology .....	3
SPMT 330 Sport Psychology.....	3
SSCI 370 Research Methods in Social Sciences.....	3

## CHEMISTRY

A minor in chemistry offers students a chance to enhance their knowledge of the key principles of chemistry, such as inorganic, organic, and biological chemistry. This minor offers a strong complement to disciplines such as Veterinary Technology BS and Health and Fitness Promotion B.Tech, and is suited to students who are interested in pursuing graduate programs in science,

engineering, medicine, or pharmacology.

### MINOR REQUIREMENTS

	Credits
CHEM 150 College Chemistry I.....	4
CHEM 155 College Chemistry II.....	4
CHEM 301 Organic Chemistry I.....	4
CHEM 302 Organic Chemistry II.....	4
CHEM 430 Biochemistry.....	3

## CORRECTIONS

The corrections minor provides an overview of interworking's of the corrections system, including challenges and opportunities present within both institutional corrections and community-based correctional environments. This minor is suited for students interested in preparing for career opportunities with the criminal justice system. Courses within this minor focus on understanding the care, custody and control aspects of working with offenders involved in the criminal justice system.

### MINOR REQUIREMENTS

	Credits
JUST 105 Correctional Philosophy.....	3
JUST 211 Intro to Probation & Parole	3
Select One course:	
JUST 341 Corrections Management and Administration .....	3
JUST 307 Penology .....	3
JUST 311 Alt. to Incarceration.....	3
JUST 313 Juvenile Justice .....	3
JUST 322 Gender and the CJ System	3
JUST 340 Legal Issues of the Penal Syst.....	3
JUST 341 Corrections Manag & Admin.....	3
JUST 349 Vulnerable Populations in CJ.....	3
JUST 431 Culminating Exp in Corrections .....	3

## CRIMINOLOGY

This minor will provide students with an opportunity to further examine the relationship between victims, offenders and community members-at-large. An interdisciplinary approach is utilized to allow students the ability to examine this broad topic from the perspective of literature, psychology, and history while furthering theoretical studies in the field of criminal justice.

### MINOR REQUIREMENTS

	Credits
JUST 310 Causes of Crime.....	3
SELECT FIVE COURSES	
JUST 307 Penology .....	3
JUST 316 Sex Offenders.....	3
JUST 324 Serial Murderers and Their Victims .....	3
JUST 331 Profiling and Behavioral Criminology .....	3
JUST 347 Research Methods in Criminology and CJ.....	3
JUST 349 Vulnerable Populations in CJ.....	3
JUST 350 Victimization .....	3

ENGL 305 Perpetrators and Their Victims .....	3
ENGL 306 Irish Prison Literature.....	3
PSYC 275 Abnormal Psychology.....	3

## CRIMINAL JUSTICE ADMINISTRATION

The Criminal Justice Administration minor provides an opportunity for students to acquire a general knowledge of the administrative duties within the Criminal Justice System. This minor is a blend of foundational courses in the areas of business, math and criminal justice; along with supplementing with upper level program electives which will enhance the student's understanding and ability better prepare them for supervisory positions in the field of criminal justice.

### MINOR REQUIREMENTS

	Credits
MATH 141 Statistics .....	3
JUST 314 Ethics in CJ.....	3
SELECT THREE COURSES	
Students must choose three for a total of nine credit hours.	
JUST 321 Managing Law Enforcement Training.....	3
JUST 333 Managing Patrol Functions	3
JUST 335 Criminal Justice Agency Mgmt.....	3
JUST 344 Civil Liability for the CJ Administrator.....	3
JUST 315 Constitutional Law.....	3
JUST 341 Corrections Manag & Admin.....	3
JUST 353 Criminal Justice Tech.....	3
JUST 449 Current Issues in LE.....	3

## CYBERSECURITY

The Cybersecurity minor program will equip students with the necessary skills to pursue a career with additional Cybersecurity knowledge/ skills needed in various industries. For example, healthcare records represent an extremely attractive target for cyber criminals, containing as they do various bits of sensitive information like Social Security numbers all in one place. The challenge for professionals working in the healthcare industry is that they just improve data protection without impeding healthcare professionals' speedy access to potentially life-saving patient information.

### MINOR REQUIREMENTS

	Credits
CYBR 165 Survey of Cybersecurity.....	3
CYBR 250 Information Security .....	3
CYBR/CITA 352 Ethical Hacking and Penetration Testing.....	3
CYBR 450 Cybersecurity Body of Knowledge .....	3
SELECT ONE COURSE	
Students must choose one for a total of three credit hours.	
MATH 351 Discrete Mathematics.....	3
CYBR 360 Cryptology in Theory and	

Practice .....	3
CYBR 365 Digital Forensic Analysis ....	3
CYBR 455 Access Control, Authentication, and PKI.....	3
SELECT ONE COURSE	
Students must choose one for a total of three credit hours.	
CYBR 354 Incident Response and Disaster Recovery.....	3
CYBR 356 Cryptology in Theory and Practice .....	3
CITA 440 Network Mgmt. AND.....	3
CITA 441 Network Management Lab 1	

## EARLY CHILDHOOD STUDIES

The Minor in Early Childhood Studies offers a broad course of study in early childhood history, theory, child development, teaching, programming, and the importance of high quality early care and education experiences, with a focus on children from infancy to age five. Students can select specific courses based on their area of interest. Students will complete 18 credits. Nine credits must be upper level [300 or 400] courses.

### MINOR REQUIREMENTS

	Credits
ECHD 101 Introduction to Early Childhood.....	3
PSYC 101 Introductory Psychology .....	3
SELECT FOUR COURSES	
Student must complete 4 courses from those listed below; 3 courses must be 300 or 400-level courses.	

ECHD 121 Wellness in Young Children: Promoting Health, Safety, and Nutrition .....	3
ECHD 131 Infants and Toddlers.....	3
ECHD 250 Children with Special Needs .....	3
ECHD 285 Issues and Policies in Early Care and Education.....	3
EDUC 210 Principles of Education .....	3
PSYC 220 Child Development OR PSYC 225 Human Development .....	3
ECHD 301 Fostering Relationships in Early Childhood Programs	3
ECHD 340 Policies and Regulations in Early Childhood Settings ..	3
ECHD 401 DAP Learning Environments, Infants - Age 5.....	3
ECHD 402 Early Literacy and Language Development ...	3
ECHD 404 Positive Child Guidance ...	3
BSAD 340 Management Communications .....	3
HIST 375 History of Childhood and Youth in the United States.	3

## 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**

	Credits
ECON 101 Principles of Macroeconomics .....	3
ECON 103 Principles of Microeconomics .....	3
ECON 314 Managerial Economics.....	3
ECON 315 Global Economy.....	3
<b>SELECT TWO COURSES</b>	
Any course with an ECON (and FSMA/ECON 330) 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:

	Credits
<b>Core Requirements</b>	
CONS 285 Engineering Geology OR ESCI 107 Earth Science OR .....	4
GEOL 103* Physical Geology.....	3
<b>ELECTIVE COURSES</b>	
CONS 101 Elementary Surveying.....	4
CONS 314 Soil Mechanics.....	3
CONS 350 Intro to GIS OR .....	3
GEOL 340* Geographic Information Systems.....	4
CONS 385 Hydrology and Hydrogeology.....	4
CONS 386 Water Quality.....	4
CONS 387 Water and Wastewater Treatment.....	3
CONS 388 Environmental Law .....	2
CONS 485 Solid Waste Management.3	
CONS 486 Soil and Groundwater	

Remediation .....	3
CONS 487 Water Resources, Management, and Design 3	
<i>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</i>	
*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**

	Credits
ACCT 101 Foundations of Financial Acct. ....	3
FSMA 210 Introduction to Finance.....	3
FSMA 312 Financial Management.....	3
FSMA 315 Global Investment.....	3
<b>SELECT TWO ELECTIVES</b> <i>(one elective must be a 400 upper level course)</i>	
BSAD 120 Principles of Banking .....	3
ECON 314 Managerial Economics.....	3
BSAD 315 Financial Statement Analysis.....	3
ECON 315 Global Economy.....	3
FSMA 325 Financial Compliance and Regulations .....	3
FSMA 415 Global Finance .....	3
FSMA 420 Financial Derivatives .....	3
FSMA 422 Risk Management .....	3

**FORENSIC SCIENCE**

The Forensic Science minor provides an opportunity for students to delve further into the field while still completing a degree in their primary area of interest. The Forensic Science minor is a blend of applied courses providing the student with an overview of the various disciplines, including forensic chemistry, fingerprints, questioned documents, taphonomy, and the autopsy process.

**MINOR REQUIREMENTS**

	Credits
JUST 210 Introduction to Forensic Investigations .....	3
CHEM 100/101 Introduction to Chemistry OR CHEM107/108 Forensic Chemistry....	4
<b>SELECT FOUR COURSES</b>	
JUST 300 Forensic Photography.....	3
JUST 301 Latent Prints and Impressions .....	3
JUST 320 Medicolegal Investigation of Death..3 .....	3

JUST330 Questioned Documents ....	3
JUST 353 Criminal Justice Tech. ....	3
CYBR 365 Digital Forensics.....	3
JUST370 Forensic Taphonomy .....	3
JUST410 Clandestine Graves.....	3
JUST 411 Forensic Drug Analysis & ID.....	3
JUST 412 Firearms & Toolmark ID.....	3
JUST 426 Ethics in Forensic Science...3	

**FRAUD EXAMINATION**

The Fraud Examination Minor is attractive to students who wish to pursue a career in civil or criminal fraud investigation and white-collar crime investigations in the public or private sector. This minor provides students, particularly those in baccalaureate degree programs in Management, Finance, Legal Studies, Criminal Investigations and Criminal Justice: Law Enforcement Leadership, an opportunity to develop a degree concentration in fraud examination. 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:**

	Credits
ACCT 245 Forensic Accounting .....	3
JUST 110 Criminal Law .....	3
JUST 485 Fraud Exam. and Investigation .....	3
<b>SELECT THREE COURSES:</b>	
ACCT 430 Auditing .....	3
BSAD 319 Professional Ethics OR JUST 314 Ethics in Criminal Justice ..	3
ECON 305 Economics of Crime.....	3
FSMA 312 Financial Management.....	3
FSMA 325 Financial Compliance and Reg. ....	3
JUST 303 Investigative Interviews .....	3

**GENDER STUDIES**

The Gender Studies Minor is committed to broadening women's and men's knowledge and awareness of issues concerning or related to gender. From an interdisciplinary approach, the minor provides a variety of courses that emphasize the gender experience from both national and global perspectives.

**MINOR REQUIREMENTS:**

	Credits
GRST 201 Intro to Gender Studies.....	3
Select five courses (Three must be Upper Level -300 or higher)	
ENGL 267 Masculinity Studies in American Literature & Culture.....	3
ENGL 304 LGBTQ Lives and Literature3	
ENGL 340 American Women Writers ..3	
HIST 204 U.S. Immigration History: Race, Class and Gender ..3	
HIST 304 U.S. Women's History .....	3
SOCI 210 Sociology of the Family.....	3
SOCI 300 Race and Ethnic Relations..3	
SOCI 305 Gender in the Media .....	3
SOCI 313 Women and Aging .....	3
SOCI 330 Sociology of Gendered Lives .....	3

**GRAPHIC AND MULTIMEDIA DESIGN**

Students looking to enter the fields of news reporting, journalism and engineering can obtain additional skills in design, photo, and video that will enhance their marketability to prospective employers. Graphic and Multimedia Design minor students will have the opportunity to learn design and layout in the Adobe Suite of software including Photoshop, Illustrator and InDesign, as well as video production and web design and development.

**MINOR REQUIREMENTS**

	Credits
GMMD 102 Intro to Design .....	3
GMMD 201 Digital Photography .....	3
GMMD 302 Professional Photography3	
GMMD 331 Digital Illustration and Typography .....	3
<b>SELECT ONE ELECTIVE</b>	
GMMD 101 Intro to Media Studies ....	3
GMMD 211 Film Analysis.....	3
GMMD 330 Web Design and Dev.....	3
GMMD 411 Digital Documentary Video .....	3
ARTS 301 Digital Storyboarding .....	3

\*A given course may be used as either required or elective course, but not both.

**HEALTHCARE MANAGEMENT**

The Health Care Management minor is available to any SUNY Canton student interested a learning more about managing healthcare organizations. The minor allows students to explore the current financial, legal, and management issues modern healthcare organizations face.

**MINOR REQUIREMENTS:**

	Credits
BSAD 310 Human Resource Management.....	3
HSMB 101 Intro to Health Services Mgmt. ....	3
HSMB 301 Public Health Issues .....	3
HSMB 307 Health Care Facility Administration .....	3
<b>SELECT TWO COURSES</b>	
HSMB 302 Legal & Ethical Issues in Health Care .....	3
HSMB 305 Managed Care.....	3
HSMB 307 Health Care Financing .....	3

**HISTORY**

The Minor in History offers a broad course of study in Europe, American, and World History. Students can select specific course based on their area of interest. Students will complete a minimum of 18 credits, with at least one course from each of the three areas and at minimum, two upper level [300 or 400] courses from those listed below.

\* 9 credits of minor coursework must be at the upper-division level

Europe	
HIST 101	History of Europe to 1815 .3
HIST 102	History of Europe since 1815 .....3
HIST 310	European City in Industrial Age.....3
HIST 315	Children, Youth, and Revolution in 20th Century Europe.....3
HIST 320	Twentieth Century Europe...3
United States	
HIST 103	US History to 1865.....3
HIST 105	US History since 1865.....3
HIST 303	Colonial American History .3
HIST 304	US Women's History.....3
HIST 305	History of the Vietnam War 3
HIST 306	US Immigration History .....3
HIST 307	American Thought since 1865.....3
HIST 309	African American History...3
HIST 375	History of Childhood and Youth in the United States..3
World	
HIST 106	World History to 1500.....3
HIST 107	World History since 1500...3

## 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:

	Credits
JUST 230	Fundamentals of HS.....3
JUST 326	Threats to Homeland Sec...3

### Select Four Electives

JUST 355	Public Safety Critical Incident Response.....3
JUST 375	Methods of Terrorism Through the Ages .....3
JUST 380	Civil Liberties & Homeland Sec .....3
JUST 402	Crime Mapping .....3
JUST 415	Emerging Issues in HS.....3
JUST 420	Corporate Role in HS .....3
JUST 425	LE Intel. Systems in HS.....3
LEST 375	Law of Immigration & Border Control .....3

## HOSPITALITY MANAGEMENT

The U.S. Bureau of Labor Statistics (BLS, 2013) considers the travel and tourism industry as a "top 10 industry in the U.S." With the hospitality industry growth rate on the upswing, the importance of recruiting and retaining trained employees is a high priority. This minor allows students to build a secondary area of expertise in support of or in addition to their major discipline. This

minor is also a pertinent supplement for students who wish to pursue a career in the hospitality industry. \* 9 credits of minor coursework must be at the upper-division level

### MINOR REQUIREMENTS (18 credits)

	Credits
BSAD 201	Business Law I OR
BSAD 202	Business Law II .....3
BSAD 206	Introduction to Hospitality Management.....3
BSAD 302	Customer Service and the Guest Experience in Hospitality.....3
BSAD 303	Global Tourism - Perspectives and Practices.3
BSAD 306	Food and Beverage Management.....3
BSAD 407	The Meeting, Expositions, Events, and Conventions Industry.....3

## LEGAL STUDIES

A minor in Legal Studies will help students to reap the benefits and avoid the pitfalls of the law as it may apply to their chosen major.

### MINOR REQUIREMENTS:

	Credits
LEST 101	The American Legal System3
BSAD 201	Business Law I.....3
LEST 340	Constitutional Law .....3
SELECT THREE ELECTIVES (Two must be Upper Level -300 or higher)	
BSAD 202	Business Law II.....3
LEST 221	Criminal Practice.....3
LEST 320	Negligence and Intentional Torts.....3
LEST 350	Civil Litigation.....3
LEST 360	Family Law .....3
LEST 370	Real Property .....3
LEST 375	Immigration Law and Border Control .....3
LEST 380	Wills, Estates and Trusts....3
LEST 388	Environmental Law .....3
LEST 410	American Indian Law and Fed. Policy.....3

## 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:

	Credits
MINS 300	Management Information Systems.....3
MINS 305	Customer Relationship Management.....3
MINS 315	Decision Support Systems...3
MINS 425	Enterprise Resource Planning .....3
MINS 430	Data and Knowledge Management.....3
SELECT ONE COURSE	
BSAD 345	Technological Innovations and Entrepreneurship.....3
BSAD 372	E-Commerce .....3
BSAD 373	International Business Management.....3
BSAD 375	Leadership and Change ...3
CITA 330	Emerging Information Technology Applications...3
CITA 400	Quantitative Approaches to Management.....3
CITA 460	Information Technology and Networked Economy.....3

## 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, consumer behavior, 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 bachelor degree program offered at SUNY Canton, though it is best suited for business and sports management majors. Students are encouraged to enroll in the minor as early as possible to ensure efficient pairing of the Marketing Management Minor with their respective major.

### MINOR REQUIREMENTS:

	Credits
BSAD 203	Marketing.....3
BSAD 220	Principles of Retailing OR
BSAD 222	Principles of Selling .....3
BSAD 322	Advertising and Promotion.3
BSAD 325	Consumer Behavior .....3
ELECTIVE COURSES (select two courses)	
*BSAD 220	Principles of Retailing OR
*BSAD 222	Principles of Selling .....3
BSAD 330	Sales Force Management ...3
BSAD 372	E-Commerce .....3
BSAD 411	Marketing Research.....3
BSAD 425	New Product Marketing ....3
SPMT 307	Sports Marketing.....3
BSAD 372	E-Commerce .....3
BSAD 411	Marketing Research.....3
BSAD 425	New Product Marketing ....3
SPMT 307	Sports Marketing.....3
SPMT 312	Sports Entrepreneurship....3
SPMT 412	Sports Sales and Sponsorships.....3
SPMT 430	Advanced Sports Marketing and Sales .....3

\*A given course may be used as either a required or elective course, but not both

## MATHEMATICS

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:

A minimum of 20 credit hours is needed to complete the minor in Mathematics as follows:

CORE REQUIREMENTS	Credits
MATH 141	Statistics I .....3
MATH 161	Calculus I.....4
MATH 162	Calculus II.....4

### Select Three Courses

(at least 2 must be MATH designated)	
MATH 263	Calculus III .....4
MATH 341	Statistics II .....3
MATH 351	Discrete Mathematics .....3
MATH 361	Linear Algebra.....3
MATH 364	Differential Equations.....4
MATH 371	Graph Theory.....3
MATH 461	Advanced Calculus .....4

\*Business, computer, engineering, physics courses in which mathematics plays a significant role may be selected with approval by the mathematics department

## SOCIOLOGY

This minor focuses on the systematic study of human social institutions and social relationships. Includes instruction in social theory, sociological research methods, social organization and structure, social stratification and hierarchies, dynamics of social change, family structures, social deviance and control, and applications to the study of specific social groups, social institutions, and social problems.

Students will take a minimum of 18 credit hours from the categories below.

### MINOR REQUIREMENTS

	Credits
SOCI 101	Introduction to Sociology...3
SSCI 370:	Research Methods in Social Sciences .....3

### Select 1 Lower Level Elective

SOCI 105:	American Social Problems 3
SSCI 181:	Alcohol, Drugs & Society ...3
SSCI 271:	Contemporary Global Issues 3

SPMT 202:	Sports in Society.....3
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### Select 3 Upper Level Electives

PSYC 300:	Cultural Psychology.....3
SSCI 315:	Death, Dying and Bereavement .....3
SOCI 300:	Race & Ethnic Relations ....3
SOCI 305:	Gender in the Media.....3
SOCI 313:	Women & Aging .....3
SOCI 320:	Sociology of Health, Illness, Healthcare .....3
SOCI 3/4@	Special Topics Courses: 391-395; 491-495.....3

## SUSTAINABILITY

Environmental Sustainability, the effort towards continuing economic, professional and national growth in a generational and environmentally responsible manner, is increasingly entwined with all professional fields and industries. Resource limitations, national/international demand and population growth will continue to assert its resulting implications on contemporary lifestyles and economy. Graduates who are well versed in sustainability concerns will be more competitive in the job market.

### MINOR REQUIREMENTS

	Credits
ESCI 101 Intro. to Environmental Science .....	3
ESCI 102 Intro. to Environmental Science Lab .....	1
GMMD 421 Sustainability Design .....	3
<i>SELECT FOUR ELECTIVES</i>	
(Two must be Upper Level - 300 or higher)	
ANTH 102 Introduction to Cultural Anthropology .....	3
AREA 110 Intro To Alternative Energy ..	3
EADM 205 Risk & Hazard Impact Studies .....	3
ECON 201 Economics and Social Issues .....	3
GMMD 101 Introduction to Media Studies .....	3
HIST 101 History of Western Heritage 3	
POLS 101 Introduction to Political Science .....	3
SOCI 105 American Social Problems ..	3
SOCI 250 Sociology of a Mass Media 3	
SSCI 271 Contemporary Global Issues .....	3
BSAD 319 Professional Ethics .....	3
BSAD 325 Consumer Behavior .....	3
BSAD 375 Leadership and Change ....	3
ECON 320 Environmental Economics ..	3
ESCI 320 Weather, Climate and Climate Change .....	3
GMMD 302 Digital Photojournalism ..	3

## VETERINARY SERVICE ADMINISTRATION

The Veterinary Service Administration 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:

	Credits
ACCT 101 Foundation of Financial Accounting .....	4
BSAD 201 Business Law I .....	3
BSAD 310 Human Resource Management .....	3
VSAD301 Veterinary Practice Management .....	3
VSAD 302 Animal Care Institution Management .....	3
VSAD 402 Veterinary Business & Financial Management ....	3

## WELLNESS

18 credits total, 9 credits must be Upper Level

### Required Credits

Any WELL 10X .....	1*
WELL 380 Foundations in Mind-Body Health and Wellness OR	
WELL 382 The Limitless Mind .....	3**

### Optional

Any course listed below to get to 18 credits (9 credits U/L)

\* Up to three credits total

\*\* Both can be taken for credit (only one is REQUIRED)

### Courses:

WELL 101 Yoga .....	1
WELL 102 Personal Fitness .....	1
WELL 103 Practicing Mindful Living and Mindfulness .....	1
WELL 104 Alternative Approaches to Mental and Physical Wellness .....	1
WELL 380 Foundations in Mind-Body Health and Wellness .....	3
WELL 382 The Limitless Mind: Lessons on Dedication, Resilience and Mental Fortitude .....	3
Any additional WELL course developed can count towards minor	
PSYC 101 Introductory Psychology	
SPMT 202 Sport in Society	
HLTH 103 Health Current Perspectives (no enrollments)	
HLTH 104 Intro to Gerontology	
HLTH 175 Basic Nutrition	
HLTH 212 Happiness, Health, & Wellbeing	
HLTH 242 Botanical Medicine	
BIOL 117 Human Reproduction	
HEFI 201 Health and Wellness Promotion	
HEFI 202 Health and Wellness across the Lifespan	
HEFI 203 Motor Development	
SSCI 181 Alcohol, Drugs, and Society	
HEFI 375 Fitness and Sports Nutrition (with permission of instructor)	
HEFI 405 Current Issues in Health and Fitness	
HEFI 408 Community Wellness	
SOCI 320 Sociology of Health, Illness, and Health Care	
PSYC 320 Psychology of Health and Fitness	
SPMT 330 Sport Psychology	
HLTH 303 Occupational Health and Safety	

## WRITING AND COMMUNICATION

The Minor in Writing and Communication trains students in the written 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:

#### Credits

Humanities	
ENGL 202 Creative Non-Fiction .....	3
ENGL 216 Children's Literature .....	3
ENGL 221 Creative Writing .....	3
ENGL 315 Short Fiction: The Art of the Tale .....	3
ENGL 350 Flash Fiction .....	3
ENGL 351 Advanced Fiction Workshop .....	3
HUMA189 Acting and Improvisation ..	3
SPCH 104 Introduction to Speech .....	3
Visual Communication/New Media	
ENGL 270 Media Writing .....	3
ENGL 314 Digital Graphic Storytelling ..	3
TCOM 200 Narrative in Video Games ..	3
TCOM 290 Mobile Media Stories and Games .....	3
TCOM 310 Identity in the Digital Age ..	3
TCOM 350 Electronic Lit.: From Cybertext to Video Games ..	3
TCOM 360 Online Media and Popular Culture .....	3
Professional and Intercultural Communication	
AMSL 101 Introduction to American Sign Language .....	3
ENGL 301 Professional Writing and Communication .....	3
ENGL 302 Global Englishes .....	3
ENGL 309 Journalism .....	3
ENGL 380 Intercultural Comm. ....	3
FREN 101 Contemporary French I .....	3
LEST 330 Legal Writing .....	3
SPAN 101 Contemporary Spanish I .....	3
SPAN 102 Contemporary Spanish II .....	3

# MICROCREDENTIALS

## MICROCREDENTIALS

Stand out in the job market by adding in-demand new skills to your resume. Designed to be completed in months, not years, microcredentials are a great way to show current and future employers that you have mastered a specific subject or gained a valuable skill. They are academic credentials, recorded on official transcripts, that can stand alone or be applied to advanced degrees. Additional information on microcredentials can be found online at [www.canton.edu/academics/micro/](http://www.canton.edu/academics/micro/).

## CAMPAIGNING AND COMMUNITY ADVOCACY MICROCREDENTIAL

The Campaigning and Community Advocacy microcredential develops applied skillsets for working in the non-profit sector, specifically focusing on social justice and advocacy campaigns. Completion of these 9 credits demonstrates mastery of core abilities for developing and implementing advocacy work in a professional capacity. This ranges from engaging in grassroots activism to serving well-established causes. Those that earn this microcredential will be prepared to engage in campaign management and community leadership.

**Required Courses**  
 BSAD 301 Principles of Management .3  
 SOCI 312 Advocacy, Activism, and Social Change.....3  
 BSAD 375 Leadership & Change.....3

## CHILD CARE MICROCREDENTIAL

The Child Care Microcredential is designed to assist individuals with understanding the development and needs of children ages infancy-five. Embedded in each course are principles of child development, best practices, intentional and purposeful classroom teaching, the importance of family engagement, and an understanding of state policies and regulations as established by the NYS office for Children and Family Services.

The 9-credit Child Care Microcredential assists home-based family childcare providers, group childcare center assistants, and classroom aides with meeting the required qualifications as established by the NYS Dept. of Education Certification for meeting public school Teacher Assistant - Level II certification, and NYS OCFS childcare staff qualifications and required OCFS topic training.

**Required Courses:** Credits  
 ECHD 101 Introduction to Early Childhood.....3  
 ECHD 12 Wellness in Young Children: Promoting Health, Safety, Nutrition and Dev. ....3  
 ECHD 131 Infants and Toddlers.....3

## CYBERSECURITY AND RECOVERY IN HEALTHCARE MICROCREDENTIAL

The Cybersecurity & Recovery in Healthcare microcredential provides an overview and understanding of health information systems, strategies to increase resilience for disasters, and examines the role of cybersecurity in healthcare. The need for data security and protection of patients' records and health care information systems is at the utmost importance to healthcare organizations as they continually face cyber threats that impact patient safety, financial well-being, and clinical outcomes.

The microcredential is particularly useful for healthcare professionals lacking formal cybersecurity training. It extends the theoretical aspects of health information technology and the implementation of health information systems' platforms necessary for direct patient care and the management of hospital and public health sectors. Themes include practical aspects of cybersecurity and cyber hygiene, emergency management competencies, and strategies to prepare for, respond to, and recover from cyber attacks and other emergencies.

**Required Courses** Credits  
 HSMB 311 Healthcare Information Technology.....3  
 EADM 330 Emergency Mgmt. in Public Health and Healthcare.....3  
 CYBR 416 Cybersecurity in Healthcare .....3

## DEATH INVESTIGATION MICROCREDENTIAL

The Death Investigation microcredential provides knowledge needed in the employment field for crime scene and medical examinations involving a death. This microcredential is great for students enrolled in 4-year programs at SUNY Canton and/or individuals employed by military police and sworn law enforcement. Students must complete 6 credits to complete the credential. Students should enroll in the 3-credit required JUST 320, Medico-Legal Investigation of Death class and

then select one of the two optional 3-credit classes based on career interest.

**CORE REQUIREMENTS**  
**Required Courses** Credits  
 JUST 320 Medico-Legal Investigation of Death.....3

**Select One**  
 JUST 422 Violent Crime Analysis.....3  
 JUST 424 Cold Case Investigation.....3

## DRONE SURVEILLANCE MICROCREDENTIAL

The Drone Surveillance microcredential provides knowledge needed in job duties where drone usage is required. This microcredential is great for students enrolled in 4-year programs at SUNY Canton and/or individuals employed by military police and sworn law enforcement. The credential can be earned by completing the 1 required course and 24 hours of non-credit drone and forensic map training.

The non-credit training addresses specific skills associated with drone operation and 2D/3D crime mapping prior to enrollment in JUST 402 where specific skills aligned with the SLOs addressing crime mapping using multiple software systems, including tactical surveillance, and orthomosaic mapping are covered.

Non-credit Training will include FAA regulations (Part 107), sectional charts, weather basics, TAF, flying basics, preprogrammed flights for 2D and 3D mock crime scenes, and Precision mapping to include CAD import.  
**Required Courses** Credits  
 JUST 402 GIS: Crime Mapping.....3

## EMERGENCY MANAGEMENT MICROCREDENTIAL

The Emergency Management microcredential is open to students enrolled in 4-year programs at SUNY Canton and/or individuals employed in emergency management or emergency responder organizations, or anyone else interested. This microcredential is completed by enrolling in four, 3-credit required classes. This combination of courses gives students valuable knowledge in distinct phases of emergency management and are meaningful for extending a specific knowledge required in the employment field.

**Required Courses** Credits  
 EADM 205 Hazard Assessment and Mitigation.....3  
 EADM 220 Emergency Planning .....3  
 EADM 222 Emergency Management and Response.....3

EADM 320 Recovery and Resilience ...3

## FORENSIC ACCOUNTING MICROCREDENTIAL

The Forensic Accounting microcredential provides students with valuable knowledge of fraud prevention, detection, and correction of financial fraud and white-collar crime activities. Individuals enrolled in any SUNY Canton Business or Criminal Justice program could take advantage of these additional skill sets.

**Required Courses**  
 ACCT 245 Forensic Accounting .....3  
 ACCT 310 Accounting Information Systems.....3

## FORENSIC ANTHROPOLOGY MICROCREDENTIAL

The Forensic Anthropology microcredential provides knowledge needed in the area of locating, excavating, collecting, and analyzing human remains. This microcredential is great for students enrolled in 4-year programs at SUNY Canton and/or individuals employed by military police and sworn law enforcement. The credential can be earned by completing the 3 required courses for a total of nine credit hours.

**Required Courses**  
 JUST 370 Forensic Taphonomy .....3  
 JUST 410 Clandestine Graves.....3  
 JUST 413 Human Identification Methods.....3

## HEALTHCARE LEADERSHIP MICROCREDENTIAL

The Healthcare Leadership microcredential recognizes the completion of a four-course sequence covering healthcare financing, effective management communications, health disparities, and current topics in health care management. The microcredential provides the necessary skills to obtain employment in various healthcare settings. It is open to students enrolled in 2-year and 4-year programs at SUNY Canton and/or nonmatriculated professionals employed in various healthcare settings.

**Required Courses** Credits  
 HSMB 306 Healthcare Financing .....3  
 BSAD 340 Management Communications .....3  
 HSMB 316 Equity, Diversity and Cultural Competence in Healthcare .....3  
 HSMB 317 Current Challenges in Healthcare .....3

## INVESTIGATIVE ANALYSIS MICROCREDENTIAL

The Investigative Analysis microcredential is targeted to students enrolled in the Bachelor of Technology in Criminal Investigation degree to recognize the completion of the five core block classes and hands-on labs. During Forensic Photography, Latent Prints & Impressions, Investigative Interviews, and Crime Scene Investigation the student is exposed to 60 hours of intensive, hands-on work per class and during Investigation of Death the student is exposed to 75 hours of course specific, hands-on work.

### Required Courses

JUST 300	Forensic Photography.....	3
JUST 301	Latent Prints and Impressions .....	3
JUST 303	Investigative Interviews .....	3
JUST 406	Crime Scene Investigations	3
JUST 408	Investigation of Death .....	3

## MEDICAL CODING MICROCREDENTIAL

The Medical Coding microcredential provides the necessary skills to obtain employment in various healthcare settings. It is open to students enrolled in 2-year and 4-year programs at SUNY Canton and/or professionals employed in various healthcare fields. The microcredential focuses on the basics of human anatomy and physiology, medical terminology, coding, insurance and reimbursements, and healthcare information technology.

The students and professionals who obtain the microcredential will be able to properly use CPT, HCPCS and ICD-10 coding language to properly document medical conditions and procedures. The Medical Coding microcredential will prepare participants to take the Coding Certification Exam.

Required Courses	Credits
BIOL 207 Human Anatomy.....	3
HSMB 200 Medical Terminology & Coding .....	3
HSMB 305 Managed Care.....	3
HSMB 311 Healthcare Information Technology.....	3

## NURSING HOME ADMINISTRATION MICROCREDENTIAL

The Nursing Home Administration microcredential is open to students enrolled in the 4-year programs at SUNY Canton, professionals employed in various healthcare fields, and/or those who are seeking to become the nursing home administrators. This microcredential satisfies the educational portion of the Department of Health's (DoH) requirement to complete the Nursing Home Administrator Licensure Program in New York State. The courses offered by the microcredential have been determined to be applicable to the education requirements for licensure as a nursing home administrator in New York State, have been approved by DoH, and are listed on the DoH's website as a resource to licensure applicants.

Required Courses	Credits
HLTH 104 Intro. to Gerontology.....	3
HSMB 302 Legal Issues in Healthcare	3
HSMB 306 Healthcare Finance .....	3
HSMB 309 Nursing Home Administration .....	3
BSAD 310 Human Resource Management.....	3

## OTHER PROGRAMS

### ENVIRONMENTAL SCIENCE AND FORESTRY—2+2 COOPERATIVE PROGRAM WITH SUNY-ESF, SYRACUSE

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 extremely 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 I.

The ESF programs are: Aquatic and Fisheries Science, Conservation Biology, Environmental Biology, Environmental Science, Environmental Studies, Forest Ecosystems Science, Forest Resource Management, Landscape Architecture, Natural Resource Management, and Wildlife Science.

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—1+1 COOPERATIVE PROGRAM WITH SUNY ESF, WANAKENA

SUNY Canton participates in a cooperative one-plus-one program with the Ranger School at the SUNY College of Environmental Science and Forestry (SUNY-ESF). Students who select this career goal complete one year at SUNY Canton and one year at the Ranger School in Wanakena, where they will choose between three academic concentrations: Forest Technology, Land Surveying Technology, or Environmental and Natural Resources Conservation. The degree of Associate in Applied Science is awarded upon graduation from SUNY-ESF. Graduates are prepared to seek positions as forest technicians, land surveyors, or field/laboratory technicians, or to transfer to a four-year program at SUNY-ESF.

Students pursuing this program are admitted to SUNY Canton for the first

year of enrollment and application must be made to SUNY-ESF for the second year. To learn more about the programs offered at Wanakena, visit [www.esf.edu/rangerschool/programs](http://www.esf.edu/rangerschool/programs).

### Admissions Requirements:

- Prepared to take College Biology I — NYS Regents Biology score  $\geq 75$ ; or
- Already passed Intro. to Biology
- Prepared to take at least Intermediate Algebra
- Prepared to take Expository Writing

The following is the recommended first-year course of study for transfer to SUNY College of Environmental Science and Forestry at Wanakena. (Curriculum 0620)

Semester I	Credits
BIOL 150 College Biology I.....	4
ECON 101 Principles of Macroeconomics* .....	3
ENGL 101 Expository Writing .....	3
MATH 106 Intermediate Algebra OR MATH 121 College Algebra OR MATH 123 Pre-Calculus Algebra** .....	3-4
	13-14

### Semester II

BIOL 155 College Biology II OR CHEM 155 College Chemistry II OR PHYS 121/125 College Physics I***.....	4
ENGL 202 Creative Non-Fiction OR Writing Intensive English .....	3
MATH 121 College Algebra OR	

MATH 123 Pre-Calculus Algebra OR General Elective .....	3-4
General Elective (GER 3,4,5,6,7)**** .....	3
	16-17

\* Students interested in Environmental & Natural Resources Conservation take POLS 101 or POLS 105 In place of ECON 101.

\*\* Students interested In the Land Surveying option must take MATH 123 in Semester I or II.

\*\*\* Students interested in the Land Surveying Option must take PHYS 121/125 in Semester I or II.

\*\*\*\* HIST 103 or HIST 105 recommended as a GER elective.

Students planning to continue in the B.S. degree program in Forest Resources Management (SUNY-ESF) after earning an A.A.S degree in Forest Technology take BIOL 150, CHEM 150, ENGL 101, MATH 121, and PHYS 121 & PHYS 125 and MATH 121 in semester I; BIOL 155, ECON 101, ENGL 221, HIST 105, and MATH 161 in semester II.

## 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](http://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.

### Costs:

Cost depends on your status upon entry. Veterans benefits and financial aid may apply. Check with the Financial Aid Office of the College.

- You pay the usual tuition rates as a full-time student including all fees. Costs of books and anticipated lab fees for student manuals totals approximately \$500.00 and uniforms (including boots) approximately \$200.00.

### Age:

Please inquire with the Director of the Police Academy.

### 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](http://www.canton.edu/academy).

## SUNY CANTON CORRECTIONS ACADEMY

The SUNY Canton Corrections Academy is offered every summer in conjunction with the St. Lawrence County Sheriff's Office and follows the New York State Division of Criminal Justice Services (DCJS) approved guidelines. The SUNY Canton Corrections Academy is open to individuals who have been hired by the St. Lawrence County Sheriff's Office and other surrounding county agencies, as well as all SUNY students who meet the eligibility guidelines. Completion of the academy as a student will provide you with 2 years of pre-certification eligibility for employment with county corrections within the state of New York. In order to become fully employed as a county corrections officer one must successfully complete and pass the NYS civil service exam.

### Eligibility Guidelines

- Enrollment at a SUNY school (first priority provided to SUNY Canton students)
- GPA of 3.0 or higher
- At least 18 years of age

### Academy Location

The academy is held on the SUNY Canton campus and all coursework will be completed in Wicks Halls in the classroom associated with University Police. Sign up early because space is limited.

### Dress Code

- Black BDU pants
- Black dress shoes or boots
- Minimum (2) Corrections Academy t-shirts must be purchased prior to the first day (orders will begin in April and each shirt will cost \$11.00)
- In order to attend the summer SUNY Canton Corrections Academy as a student, enrollment in JUST 431 - Culminating Experience in Corrections (4 credits) must be completed prior to the first day of the academy. During the summer academy two additional upper level corrections related courses (6 credits) will also be offered online for a total of 10 credits (academy 4 credits + 2 upper division courses) that can be achieved and transferred back to your home institution. Enrollment in the two additional online corrections courses is optional and not required to participate in the academy.

### SUNY Canton Living Accommodations

Housing is available in Kennedy Hall at a cost of \$900 per person for the duration of the summer academy. This rate includes a single bedroom in an apartment-style suite with a shared full

kitchen, living room and bathroom. The suites are furnished but do not include linens or kitchen items (dishes, pots, pans, etc.). The living room in each suite has air conditioning but the bedrooms are not air conditioned (a fan is recommended). If you would like to arrange housing please contact the Residence Life Office at 315-386-7513 or via email at [reslife@canton.edu](mailto:reslife@canton.edu) at least two weeks prior to the program.

### SUNY Canton Fitness Center

The fitness center will be offering a pro-rated 5-week membership during the academy at a reduced rate of \$25.00. Membership can be obtained during the first day of coursework by visiting the fitness center located in the SUNY Canton Convocation, Athletic, and Recreation Center.

### Financial Aid for Summer Study

There is financial aid available for the summer sessions. In order to receive aid for summer, the following must be taken into consideration:

You must be admitted into a degree program. New students will not be eligible for summer financial aid (includes students admitted for Fall 2018).

All summer courses MUST be applicable to your current degree program in order to receive aid. Your academic advisor will assign you a summer registration code for scheduling access on UCanWeb.

Financial aid you receive in the summer may reduce your eligibility for aid during the academic year or in a subsequent year.

Taking courses at another college? To receive aid to help pay for them you must complete and submit a Consortium Agreement. To be aid eligible the course must transfer back into your degree program. Be prepared to pay for your course upfront and be reimbursed by aid later, not all schools participate in this process especially during summer. Be sure to check with the other school for their policy when signing up for the courses.

For academy related questions please contact Dr. Liz Brown, Chair of the Criminal Justice Department at (315)386-7504 or [erickson@canton.edu](mailto:erickson@canton.edu) OR Cpl. Rodney Votra, Programs Director / Training Coordinator, St. Lawrence County Sheriff's Office at (315)379-2414 or [rvotra@stlawco.org](mailto:rvotra@stlawco.org)

Send completed applications to:  
Dr. Elizabeth Brown  
SUNY Canton  
34 Cornell Drive, Payson 117B  
Canton, NY 13617

## UB SCHOOL OF LAW DEGREE (3+3) - B.S. + J.D.

With our new 3+3 program, you can save one full year of tuition by earning your bachelor's degree at SUNY Canton and your law degree at University at Buffalo School of Law, in just six years (instead of seven). It's one of the most affordable paths to a law degree in the country!

### About This Major:

The program is open to a SUNY Canton student who has maintained a 3.5 GPA and completed three years of under-graduate work in Legal Studies or Applied Psychology. To become eligible, students must have an LSAT score at or above the median LSAT for the School of Law's previous year's enrolled class (currently 153), complete the University at Buffalo School of Law application, and complete all required coursework toward the B.S. degree.

### Career Opportunities:

Holders of Juris Doctor degrees go on to careers including, but not limited to:

- Professional Litigators
- Corporate Counsel
- Wills, Estates, and Trusts Attorneys
- Judges
- Public Defenders
- Criminal Prosecutor
- Entrepreneurs
- Politicians

## 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.

## NON-DISCRIMINATION NOTICE

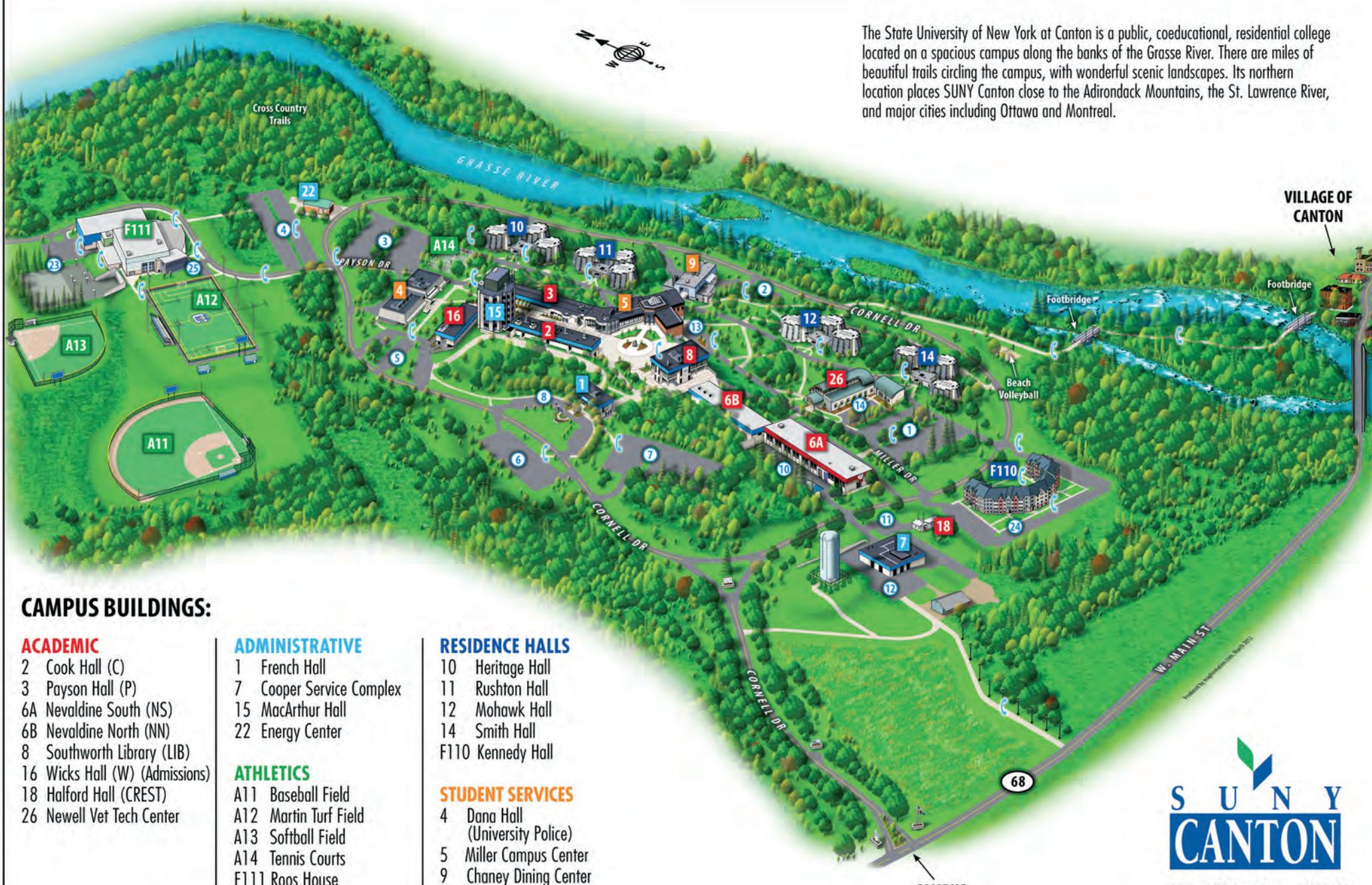
Pursuant to the State University of New York policy, SUNY Canton is committed to fostering a diverse community of outstanding faculty, staff, and students, as well as ensuring equal educational opportunity, employment, and access to services, programs, and activities, without regard to an individual's race, color, national origin, religion, creed, age, disability, sex, gender identity, gender expression, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction. Employees, students, applicants, or other members of the campus community (including, but not limited to, vendors, visitors, and guests) may not be subjected to harassment that is prohibited by law or treated adversely or retaliated against based upon a protected characteristic.

The University's policy is in accordance with federal and state laws and regulations prohibiting discrimination and harassment. These laws include the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, Title VII of the Civil Rights Act of 1964 as Amended by the Equal Employment Opportunity Act of 1972, and the New York State Human Rights Law. These laws prohibit discrimination and harassment, including sexual harassment and sexual violence.

Inquiries regarding the application of laws, regulations, policies prohibiting discrimination, and the application of Title IX may be directed to Amanda Deckert, Director of Human Resources / Title IX Coordinator, at (315) 386-7325/wood121@canton.edu. Inquiries may also be directed to the United States Department of Education's Office for Civil Rights, 32 Old Slip 26th Floor, New York, NY 10005-2500; Tel. (646) 428-3800; email OCR.NewYork@ed.gov.

# CAMPUS MAP

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. There are miles of beautiful trails circling the campus, with wonderful scenic landscapes. Its northern location places SUNY Canton close to the Adirondack Mountains, the St. Lawrence River, and major cities including Ottawa and Montreal.



VILLAGE OF CANTON

## CAMPUS BUILDINGS:

### ACADEMIC

- 2 Cook Hall (C)
- 3 Payson Hall (P)
- 6A Nevaldine South (NS)
- 6B Nevaldine North (NN)
- 8 Southworth Library (LIB)
- 16 Wicks Hall (W) (Admissions)
- 18 Halford Hall (CREST)
- 26 Newell Vet Tech Center

### ADMINISTRATIVE

- 1 French Hall
- 7 Cooper Service Complex
- 15 MacArthur Hall
- 22 Energy Center

### ATHLETICS

- A11 Baseball Field
- A12 Martin Turf Field
- A13 Softball Field
- A14 Tennis Courts
- F111 Roos House

### RESIDENCE HALLS

- 10 Heritage Hall
- 11 Rushton Hall
- 12 Mohawk Hall
- 14 Smith Hall
- F110 Kennedy Hall

### STUDENT SERVICES

- 4 Dana Hall (University Police)
- 5 Miller Campus Center
- 9 Chaney Dining Center

① Parking Lots 1-25

☎ Emergency Blue Light Phones

CAMPUS ENTRANCE



34 Cornell Drive • Canton, NY 13617  
 (315) 386.7011 • 1.800.388.7123  
[www.canton.edu](http://www.canton.edu)