

**ELEC 2000 Electronic Construction**

CAD-generated printed circuit board design and fabrication including artwork, etching, soldering, component mounting and wire wrapping. An individual project is constructed.
(1 cr. hr.) (Fall). Prerequisite: ELEC 1500.
Laboratory. Lab fee.

ELEC 2010 Linear Electronics

Advanced course in linear and analog electronics. Linear integrated circuits, power amplifiers, operational amplifiers, regulated power supplies, and active filters.
(4 cr. hrs.) (Fall). Prerequisite: ELEC 1500.
Lecture/laboratory. Lab fee.

ELEC 2020 Industrial Electronics

Automatic process control systems. Programmable logic controllers used in industrial control systems. Installation, programming and interfacing of Allen Bradley SLC 500 control Logix controllers. Transducers, AC/DC motors, servo motors, industrial control diagrams, variable frequency drives are also covered.
(4 cr. hrs.) (Fall). Prerequisites: ELEC 1500, 1510. Lecture/laboratory. Lab fee.

ELEC 2030 Microprocessors

Extensive study and application of the architecture and instruction set of a microprocessor. Includes the use of assemblers and simulators, assembly language programming as well as I/O and memory circuit design
(4 cr. hrs.) (Fall). Prerequisite: ELEC 1510.
Lecture/laboratory. Lab fee.

ELEC 2050 Senior Project

An independent project including the various stages from conception to design and layout, fabrication, testing, modification, and final reporting. Project is of the student's choosing, subject to approval of the instructor.
(2 cr. hrs.) (Spring). Prerequisites: ELEC 2000, 2010, 2030. Laboratory/independent project.
Lab fee.

ELEC 2060 Electronic Communications

Circuits common to most communications equipment: filters, tuned circuits, oscillators, and amplifiers. AM and FM circuitry, radio receivers, transmitters, and an introduction to digital communications and fiber optics.
(4 cr. hrs.) (Spring). Prerequisites: ELEC 1500, 2010. Lecture/laboratory. Lab fee.

ELEC 2070 Data Acquisition

Introduces basic process instrumentation and control systems, analog to digital and digital to analog conversion with emphasis on computer control interfacing of processes. Use of LabView data acquisition software to acquire and analyze data.
(4 cr. hrs.) (Spring). Prerequisites: ELEC 2010, 2030. Lecture/laboratory. Lab fee.

ELEC 2080 Microprocessor Systems

Advanced microprocessor course dealing with the software and hardware aspects of microprocessor system design. Uses Intel 8051 micro-controller.
(4 cr. hrs.) (ASN). Prerequisite: ELEC 2030.
Lecture/laboratory. Lab fee.

ELEC 2090 Programmable Controllers

Programmable logic controllers used in industrial control systems. Installation, programming and interfacing of Allen-Bradley and Texas Instruments programmable logic controllers.
(4 cr. hrs.) (ASN). Prerequisite: ELEC 1500.
Lecture/laboratory. Lab fee.

ELEC 2100 Technology Research

Issues and concepts related to the student's field of technology. In consultation with faculty, students select, research, organize, and present in written and oral form, topics of personal and professional interest. The use of the Internet and visual presentation systems is required.
(3 cr. hrs.) (ASN).

EMS Emergency Medical Technology

Division of Health & Sciences

The courses listed below are offered at a variety of off-campus sites throughout the region. They are primarily designed for emergency medical services workers and related government officers. Additional information may be obtained from the Coordinator of Emergency Services at STREMS, Inc. or from the Associate Dean of Health & Sciences at Corning Community College.

EMS 1000 Certified First Responder

Basic life support and orientation to trauma and general medical emergencies.
(4 cr. hrs.) (Fall, Spring). Prerequisite: Sixteen years old by end of course. Credit cannot be earned for this course and FIRE 1000. Lecture/laboratory. May be used to fulfill Wellness Awareness requirement.

**EMS 1050 Emergency Medical Dispatch**

Medical protocol training designed to help EMD's deliver quality care and customer service to callers with emergency medical needs.

(1.5 cr. hrs.) (ASN). Prerequisite: Current CPR certification. May be used to fulfill Wellness Awareness requirement.

EMS 1100 EMT: Basic

Emergency medical techniques within the responsibilities of an EMT-A providing emergency care with an ambulance service. Prepares students to take test for New York State EMT certification.

(8 cr. hrs.) (Fall, Spring). Prerequisite: Eighteen years old by the end of course. Credit cannot be earned for this course and FIRE 1010 or LEN 1112. Lecture/laboratory. May be used to fulfill Wellness Awareness requirement.

EMS 1200 EMT: Intermediate

Skills in airway management, assessment and management of shock and trauma, and defibrillation.

Recognition, assessment, and management of medical emergencies under the direction of a physician.

Prehospital emergency care to acutely ill or injured patients by ambulance service and mobile advanced life support units under medical control.

(3 cr. hrs.) (ASN). Prerequisite: EMS 1100. Lecture/laboratory. May be used to fulfill Wellness Awareness requirement.

EMS 1500 Certified First Responder Review

Review of resuscitative skills needed to sustain life.

(1 cr. hr.) (ASN). Prerequisite: Current certification or certification that will not have expired more than 36 months prior to the completion of the course. May be repeated as necessary but credit may be earned only once. Lecture/laboratory. May be used to fulfill Wellness Awareness requirement.

EMS 1600 EMT Review

Review of resuscitative skills needed to sustain life and learn new information and skills resulting from recent advances in emergency care.

(3 cr. hrs.) (ASN). Prerequisite: Current certification or certification that will not have expired more than 36 months prior to the completion of the course. May be repeated as necessary but credit may be earned only once. Lecture/laboratory.

EMS 1700 EMT: Intermediate Review

Covers the general training needs of refresher candidates and updates their training to present standards for basic and intermediate certification.

(2.5 cr. hrs.) (ASN) Prerequisites: must possess current New York State EMT-intermediate certification that will expire in less than 12 months. May be repeated as necessary, but credit may be earned only once. Lecture/Laboratory.

EMS 2000 EMT: Critical Care I

Knowledge of the acute and critical changes in physiology, pathophysiology, and clinical signs and symptoms of acute disease and trauma states as they pertain to pre-hospital emergency care.

(6 cr. hrs.) (ASN). Prerequisite: Current New York State EMT certification. Lecture/laboratory.

EMS 2010 EMT: Critical Care II

Knowledge of the acute and critical changes in physiology, pathophysiology, and clinical signs and symptoms of acute disease and trauma states as they pertain to pre-hospital emergency care.

(6 cr. hrs.) (ASN). Prerequisite: EMS 2000. Lecture/laboratory.

EMS 2100 EMT: Paramedic I

Instruction in medically correct initial and continued advanced life support treatment of critically ill or injured persons using good medical judgment. Intense practical training to perform rapidly and efficiently.

(18 cr. hrs.) (ASN). Prerequisite: Current New York State EMT certification, eligible to enroll in ENGL 1010 and MATH 1015 or higher, successful completion of any remedial work as a result of CCC assessment tests. Lecture/laboratory. Fee \$100.

EMS 2110 EMT: Paramedic II

Continued instruction in providing medically correct initial and continued advanced life support treatment of critically ill or injured persons using good medical judgment. Intense practical training to perform rapidly and efficiently.

(18 cr. hrs.) (ASN). Prerequisite: EMS 2100. Lecture/laboratory. Fee \$100.

EMS 2500 EMT: Critical Care Review

Updates practitioner training to present standards for basic and advanced certification.

(3.5 cr. hrs.) (ASN) Prerequisite: New York State EMT-Critical Care certification that will not have expired by more than 12 months by the end of the month in which certifying examination is held. May be repeated as necessary but credit may be earned only once. Lecture/laboratory.

EMS 2600 EMT: Paramedic Review

Updates the Paramedic's training to current standards for basic and advanced certification. (6 cr. hrs.) (ASN). *Prerequisite: New York State EMT-P certification that will not have expired by more than 12 months by the end of the month in which the certifying exam is held. May be repeated as necessary but credit may be earned only once. Lecture/laboratory.*

ENGL English

Division of Communications & Humanities
Faculty: Christine Atkins, Maarit Clay, Edward Dougherty, Gerald Ianovici, Vincent Lisella, Paul McNaney, Alice Moore, Bruce Sonner

All students begin their English courses according to their writing ability as determined by institutional assessment and evaluation of prior course work. Those with writing difficulties begin with ENGL 0950, Basic Writing Skills. Those with no serious writing difficulties begin with ENGL 1010, College Composition. Superior writers may be placed in an advanced English course but they must complete the full credit-hour requirement for their program.

The following chart details the requirements and alternatives for each degree and certificate.

A.A. Degree	12 credit hours of English and other communications courses.
	1. Normal sequence: ENGL 1010 and 1020 plus six credit hours of 2000-level communications courses.
	2. Writing difficulties: ENGL 0950, 1010, 1020, and six credit hours of 2000-level communications courses.
	3. Superior writers: ENGL 1020 plus nine credit hours of 2000-level communications courses.

A.S. Degree	6 credit hours of English courses.
	1. Normal sequence: ENGL 1010 and 1020.
	2. Writing difficulties: ENGL 0950, 1010 and 1020.
	3. Superior writers: ENGL 1020 plus three credit hours of 2000-level communications courses.

A.A.S. Degree 6 credit hours of English courses.

1. Normal sequence: ENGL 1010 and 1020 or 1030.
2. Writing difficulties: ENGL 0950, 1010, and 1020 or 1030.
3. Superior writers will be placed in ENGL 1020 or 1030, according to the student's preference. The student will then complete the requirement with three credit hours of 2000-level communications courses.

A.O.S. Degree Certificate English requirements vary. See the program for exact information.

ENGL 0950 Basic Writing Skills

Developing ideas, planning and outlining, revising techniques, grammar, sentence structure, punctuation, spelling, vocabulary, and paragraph development and basic essay structure. To complete the course, the student will be expected to write essays with no serious errors.

(3 eq. cr. hrs.) (Fall, Spring). Prerequisite: Placement. This course does not fulfill program or degree requirements. Grading: A through C, F. Lecture/laboratory.

ENGL 0990 Intermediate Writing Skills

Developing ideas, reading articles, planning and outlining, revising techniques, sentence structure, grammar, punctuation, diction, and essay development. To complete the course, the student will be expected to write essays responding to and integrating source material with no serious errors.

(3 eq. cr. hrs.) (Fall, Spring). Prerequisite: Placement or ENGL 0950. This course does not fulfill program or degree requirements. Grading A through C, F.

ENGL 1010 College Composition I

Essay writing designed to sharpen the student's perceptions of the world through the study and use of non-fiction writings and to facilitate communications with correctness, clarity, unity, organization, and depth. Assignments include expository writing, argumentation, and research techniques.

(3 cr. hrs.) (Fall, Spring). Prerequisite: Placement or ENGL 0990. Meets General Education requirement in Basic Communication. Writing Process.