TECHNOLOGY STUDIES: COMPUTER ENGINEERING TECHNOLOGY, AS

Program code: CETC-AS-COT

Location: Middlesex

Program Description

The College of Technology Pathway - Technology Studies: Computer Engineering Technology Option Associate Degree program prepares students for transfer to institutions with bachelor's degree programs in Computer Engineering Technology, Industrial Technology, Networking Technology, or other related fields, or for entry into computer-based industry positions. This is a hands-on, technically oriented program.

Learning Outcomes

1. Apply mathematical, scientific and technological principles and concepts to identify and formulate solutions to technical problems.
2. Apply critical thinking and problem-solving skills to solve technical problems.
3. Demonstrate the ability to function on teams.
4. Recognize the need to engage in life-long learning.

Computer Engineering Learning Outcomes

1. Provide students with a background in the application of electric circuits, computer programming, associated software applications, computer hardware, computer networking, and engineering standards to the building, testing, operation, and maintenance of computer systems and associated software systems.
2. Provide students with the ability to apply science, engineering, and mathematical analysis in solving computer engineering technology problems.
3. Prepare students to take industry-based certification exams.
4. Develop students' ability to apply written, oral, and graphical communication in both technical and non-technical environments and to identify and use appropriate technical literature.
5. Develop students' ability to learn new concepts and techniques as required for continuing professional development.

Degree Requirements

Code	Title	Credits
Technology Studies General Education Core		
ENG 1010	Composition	3
MATH 1610	Precalculus	4
ART Elective (course vetted for ARHX)		3
CHEM 1110	Concepts of Chemistry	4
or CHEM 1210	General Chemistry I	
Elective HISX - Historical Knowledge Course or Elective SBSX course in ECON		3
ENG 1080	Composition II: Technical Writing	3
or COMM 1301	Public Speaking	
CCS 1001	College and Career Success	3
Technology Studies Program Core		
PHYS 1201	General Physics I	4
or PHYS 2201	Calculus-Based Physics I	
Elective BHEL - Behavioral Science Elective - choose an ANTH, PSY or SOC course		3
MATH 1200	Statistics I	3-4
or MATH 1201	Statistics I with Computer Applications	
Computer Engineering Technology Courses		
MATH 2600	Calculus I	4
EGR 1110	Introduction to Engineering	3
MATH 2610	Calculus II	4
or EGR 2221	Introduction to Electrical Circuit Analysis	
CIS 1001	Introduction to Computers	3
CSC 1211	Java I	3
CSC 2212	Java II	3
PHYS 1202	General Physics II	4
or PHYS 2202	Calculus-Based Physics II	
CST 1111	Computer Hardware	4
CST 1221	Networking I	4
Total Credits		**65-66**