

ENGINEERING TECHNOLOGY - COMPUTER TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

NMC Code 545

Engineering technology education focuses primarily on the applied aspects of science and engineering aimed at preparing graduates for practice in that portion of the technological spectrum closest to product improvement, manufacturing, construction, and engineering operational functions.

The NMC Engineering Technology degree offers students a broad-based curriculum across all areas of technical education, preparing the graduates for emerging job markets and highly technical fields. The program is designed to allow students to choose courses of interest or specialize in one of the following specialty areas:

- Biomedical Technician,
- Computer Technology,
- Electronics Technology,
- Robotics & Automation Technology,
- Unmanned Aerial Systems (UAS) Technology,
- Marine (ROV) Technology.

Requirements

Major Requirements

Course	Title	Credits
General Education Requirements		
ENG 111	English Composition	4
Select one of the following:		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
PHL 105	Critical Thinking	3
Math Competency ¹		4
Select one of the following:		4
BIO 106	Human Biology	
ENV 117	Meteorology & Climatology	
PHY 105	Physics of the World Around Us	
PHY 121	General Physics I	
GEO 115	Introduction to GIS	3
Technical Specialty Requirements		
DD 170	CADD/Computer Modeling	4
EET 102	Intro to Engineering Tech	2
EET 103	Electrical Studies I	3
EET 260	System Engineering in Practice	3
MFG 104	Fluid Power	3
RAM 155	Microcontroller Programming	3
RAM 205	Microcontroller Systems	3
Computer Technology		

CIT 110	Programming Logic and Design	3
CIT 178	Relational Databases	3
CIT 180	Web Development	3
CIT 190	JavaScript Programming	3
CIT 195	Application Development	3
CIT 228	Advanced Database Systems	3
CIT 255	Object-Oriented Programming	3

Total Credits **63-64**

¹ Placement into MTH 122 Trigonometry **or** higher, **or** completion of MTH 121 College Algebra

Minimum Program Requirements 60

Note: Internship opportunities are available for additional credits.

Course Sequence Guide

Course	Title	Credits
Year 1		
Fall		
ENG 111	English Composition	4
GEO 115	Introduction to GIS	3
EET 102	Intro to Engineering Tech	2
EET 103	Electrical Studies I	3
RAM 155	Microcontroller Programming	3
CIT 110	Programming Logic and Design	3
Credits		18
Spring		
Select one of the following:		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
RAM 205	Microcontroller Systems	3
CIT 195	Application Development	3
CIT 180	Web Development	3
CIT 178	Relational Databases	3
Credits		15-16
Year 2		
Fall		
MTH 121	College Algebra	4
Select one of the following:		4
BIO 106	Human Biology	
ENV 117	Meteorology & Climatology	
PHY 105	Physics of the World Around Us	
PHY 121	General Physics I	
MFG 104	Fluid Power	3
CIT 190	JavaScript Programming	3
CIT 255	Object-Oriented Programming	3
Credits		17
Spring		
PHL 105	Critical Thinking	3
EET 260	System Engineering in Practice	3
DD 170	CADD/Computer Modeling	4

CIT 228	Advanced Database Systems	3
Credits		13
Total Credits		63-64

The responsibility for determining the transferability of this degree and courses to another institution is the sole responsibility of the student.