

# ENGINEERING TECHNOLOGY - UNMANNED AERIAL SYSTEMS TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

NMC Code 542

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
<b>General Education Requirements</b>		
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
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	
Math Competency <sup>1</sup>		4
GEO 115	Introduction to GIS	3
<b>Technical Specialty Requirements</b>		
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
<b>Unmanned Aerial Systems (UAS) Technology</b>		

AVF 141	Remote Pilot Flight	3
AVF 211	Commercial Drone Operations	4
AVF 241	Advanced Drone Operations	3
AVG 142	Remote Pilot Ground	3
EET 204	Electrical Studies II	3
Approved Elective (see advisor)		3
<b>Total Credits</b>		<b>61-62</b>

<sup>1</sup> 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
<b>Year 1</b>		
<b>Fall</b>		
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
AVF 141	Remote Pilot Flight	3
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
Select one of the following:		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
RAM 205	Microcontroller Systems	3
DD 170	CADD/Computer Modeling	4
AVG 142	Remote Pilot Ground	3
<b>Credits</b>		<b>13-14</b>
<b>Summer</b>		
AVF 211	Commercial Drone Operations	4
<b>Credits</b>		<b>4</b>
<b>Year 2</b>		
<b>Fall</b>		
MTH 121	College Algebra	4
MFG 104	Fluid Power	3
EET 204	Electrical Studies II	3
AVF 241	Advanced Drone Operations	3
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
PHL 105	Critical Thinking	3
EET 260	System Engineering in Practice	3
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	

Approved Technical Elective	3
<b>Credits</b>	<b>13</b>
<b>Total Credits</b>	<b>61-62</b>

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