Engineering Technology

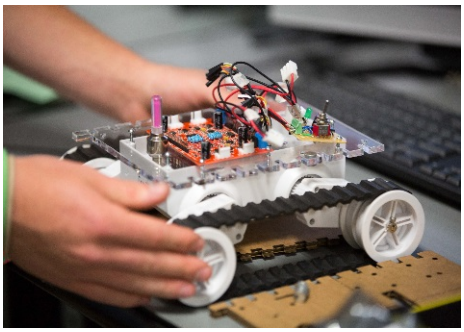
Program Overview

Engineering Technology: Associates in Applied Science Degree **CIP Code: 15.000**

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 focus on areas of interest or specialize in one of six specializations; Bio-Medical Technology, Computer technology, Electronics, Marine Technology (ROV), Robotics & Automation Technology, and Unmanned Aerial Systems (UAS).

General Education Requirements			21-22 Credits
ENG	111	English Composition	4
ENG BUS ENG	112 231 220	English Composition **or** Professional Communication **or** Technical Writing	3-4
MTH	121	College Algebra	4
PHL	105	Critical Thinking	3
GEO BIO PHY PHY ENV	115 106 105 121 117	Intro to GIS Human Biology **or** Physics of the World Around **or** General Physics I **or** Meteorology & Climatology	3 4

Core Technical Requirements			18 Credits
RAM	155	Microcontroller Programming	3
RAM	205	Microcontroller Systems	3
DD	170	Computer Modeling	4
EET	102	Intro to Engineering Technology	2
EET	103	Electrical Studies I	3
MFG	104	Fluid Power	3



Engineering Technology Program Specializations:

Robotics & Automation Technology			21 Credits
EET	204	Electrical Studies II	3
EET	221	Industrial Controls	3
EET	232	Programmable Logic Controllers	3
EET	233	PLC Applications I	3
EET	234	PLC Applications II	3
EET	260	System Engineering in Practice	3
MFG	203	Manuf/Engineering Processes	3

Bio-Medical Technology			22 Credits
EET	180	Biomedical Equipment I	3
EET	190	Biomedical Internship	1
EET	204	Electrical Studies II	3
EET	260	System Engineering in Practice	3
EET	281	Biomedical Equipment II	3
EET	290	Engineering Tech Internship	3
HAH	101	Medical Terminology	3
CIT	213	Networking Technologies	4

Computer Technology			22 Credits
EET	204	Electrical Studies II	3
EET	260	System Engineering in Practice	3
CIT	110	Programming Logic and Design	3
CIT	178	Relational Databases	3
CIT	213	Networking Technologies	4
CIT	240	Network Security Management	3
		Approved Technical Elective	3

Marine Technology (ROV)			22 Credits
EET	204	Electrical Studies	3
EET	260	System Engineering in Practice	3
ENV	131	Oceanography	4
WSI	200	G.L. Research Technologies	3
WSI	210	Underwater Acoustics & Sonar	3
WSI	215	Marine GIS & Data Processing	3
WSI	240	Remote Operated Vehicles	3

Unmanned Aerial Systems (UAS)			21 Credits
UAS	107	Remote Pilot Flight	3
UAS	141	Remote Pilot Flight	3
UAS	211	Commercial Drone Operations	3
UAS	142	Advanced Drone Operations	3
WSI	300	Remote Sensing and Sensors	3
UAS	220	UAS Projects and Maintenance OR	
EET	260	System Engineering in Practice	3
		Approved Technical Elective	3

Electronics Technology			22 Credits
EET	161	Fund. of Light and Lasers	4
EET	204	Electrical Studies II	3
EET	221	Industrial Controls	3
EET	232	Programmable Logic Controllers	3
EET	260	System Engineering in Practice	3
		Approved Technical Elective	6

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