

Electro-Mechanical Engineering Technology - Alternative Energy Major

Center for Innovative Technologies Division

2016-2017 Curriculum

Course	Title	Pre-Reqs	Lec	Lab	Credit Hours
Semester 1					
CIT-105	OSHA 10 General Industry Safety		1	0	1
EET-131	Circuits Analysis 1		3	2	4
EMET-150	Introduction to Controls and Robotics		1	2	2
FYE-1XX	First Year Experience Elective		1	0	1
MAT-XXX	Mathematics Elective 1		3	2	4
PSET-110	Power Systems CAD		2	3	3
					15

Semester 2					
EET-132	Circuits Analysis 2	EET 131, MAT 125	3	2	4
EMET-180	Process Instrumentation	EET 131, EMET 140	2	3	3
ENG-101	English Composition 1		3	0	3
MAT-XXX	Mathematics Elective 2		3	2	4
MET-111	Manufacturing Processes 1		2	3	3
					17

Semester 3					
MET-150	Statics and Strength of Materials for MET	MAT 121 or MAT 125	2	3	3
XXX-XXX	Cooperative Education or Transfer Elective 1		1	40	2
					5

Semester 4					
EMET-210	Energy Efficiency and Audits	131	2	2	3
EMET-240	PLCs, Motors, Motor Controls, and Kinematics	EET 132	2	3	3
EMET-285	Electro-Mechanical Eng. Technology Capstone 1	EET132, EM ET 140	0	2	1
ENG-10X	English Composition Elective	ENG 101	3	0	3
PHY-XXX	Physics Elective		3	2	4
					14

Semester 5					
EMET-225	Solar and Renewable Energy	EMET 210	2	2	3
EMET-275	Electric Drive Mechanisms	EMET 240	3	3	4
EMET-290	Electro-Mechanical Engineering Tech Capstone 2	EMET 285	1	2	2
XXX-XXX	Arts/Humanities Electives	ENG 101	3	0	3
					12

Semester 6					
XXX-XXX	Cooperative Education or Transfer Elective 2		1	40	2
					2
Total					65

Arts/Humanities Elective: CULT 105, CULT 110, PHI 110

Cooperative Education or Transfer Elective: EMET 291, EMET 292, EET 121, ESET 251, MET 140. Program

Chair approval is required for students planning to take a Transfer Elective course rather than participate in cooperative education

English Composition Elective: ENG 102, ENG 104

First Year Experience Elective: FYE 100, FYE 105, FYE 110

Math Electives: Take one of the following series: (MAT 125 and MAT 126) or (MAT 251 and MAT 252)

Physics Elective: PHY 151, PHY 201