

Electro-Mechanical Engineering Technology - Laser Major

Center for Innovative Technologies Division

2015-2016 Curriculum

Note: All degree seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Course	Title	Pre-Reqs	Lec	Lab	Credit Hours
Semester 1					
EET-131	Circuit Analysis 1		3	2	4
EMET-140	EMET Foundations		1	2	2
ENG-101	English Composition 1		3	0	3
MAT-XXX	Mathematics Elective 1		3	2	4
PSET-110	Power Systems CAD		2	3	3

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Semester 2

EET-121	Digital Systems 1	MAT 121 (see catalog)	2	2	3
EET-132	Circuit Analysis 2	EET 131, MAT 125	3	2	4
ENG-10X	English Composition Elective		3	0	3
MAT-XXX	Mathematics Elective 2		3	2	4
MET-111	Manufacturing Processes 1		2	3	3

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Semester 3

EMET-291	Full-Time Cooperative Education 1: EMET	EMET 140	1	40	2
MET-150	Statics and Strength of Materials for MET	MAT 121 or MAT 125	2	3	3

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Semester 4

COMM-110	Public Speaking	ENG 101	3	0	3
EMET-240	PLCs, Motors, Motor Controls, and Kinematics	EET 132	2	3	3
EMET-245	Laser Foundations and Safety	MAT 121, EMET 140	2	3	3
PHY-XXX	Physics Elective		3	2	4
XXX-XXX	Technical Elective		2	3	3

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Semester 5

ECO-1XX	Economics Elective		3	0	3
EMET-255	Optical Components, Geometrical and Wave Optics	EMET 245	3	3	4
EMET-265	Industrial Laser Systems	EMET 245	3	3	4
XXX-XXX	Humanities Elective	ENG 101	3	0	3

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Semester 6

EMET-292	Full-Time Cooperative Education 2: EMET	EMET 291	1	40	2
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Total **70**

English Composition Elective: ENG 102, ENG 103, ENG 104, ENG 105

Economics Elective: ECO 105, ECO 110

Humanities Elective: CULT 105, CULT 110, PHI 110

Physics Elective: PHY 151, PHY 201

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

Technical Elective: EMET 180, MET 240, MET 260