# Electro-Mechanical Engineering Technology (EMET)

# **Electro-Mechanical Engineering Technology (EMET)**

The Electro-Mechanical Engineering Technology program is the largest of its kind in Ohio. The program combines electronics engineering technology and mechanical engineering technology, so students develop skills that are highly valued by industrial firms, including a focus on industrial automation. Students gain skills in controlling systems, linking software and hardware maintaining systems, and improving machines and systems.

Program graduates also are prepared to pursue a Bachelor of Science degree in Engineering Technologies such as Electronics and Electro-Mechanical, or pursue a Bachelor of Science degree in Engineering such as Electrical Engineering.

The Electro-Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, phone (410) 347-7700 and has received an Ohio Board of Regents Program Excellence Award.

# Electro-Mechanical Engineering Technology—Laser Major (EMETL)

The Laser major prepares graduates to successfully begin careers and advance professionally in local and national industries that utilize lasers and electro-optics systems. Students work with laser material processing systems, and operate and troubleshoot optical systems including lasers, lens systems, and fiber optics. Graduates can support industrial equipment in automated manufacturing and research environments, and are also prepared to pursue a bachelor's degree in Electro-Mechanical Engineering or related fields.

Program graduates also are prepared to pursue a Bachelor of Science degree in Engineering Technologies such as Electronics and Electro-Mechanical, or pursue a Bachelor of Science degree in Engineering such as Electrical Engineering.

# Electro-Mechanical Engineering Technology—Renewable Energy and Energy Efficiency Major (EMTR)

The Renewable Energy major prepares graduates to address needs in several related and growing industries, including the manufacturing of photovoltaic electric panels, geothermal, solar thermal, wind turbines, and fuel cells; installing and servicing photovoltaic and wind turbine systems; and assisting energy efficiency companies and consultants. Understanding these new technologies requires most of the traditional foundations of electro-mechanical engineering technology studies.

Program graduates also are prepared to pursue a Bachelor of Science degree in Engineering Technologies such as Electronics and Electro-Mechanical, or pursue a Bachelor of Science degree in Engineering such as Chemical Engineering for research and development.

# Electro-Mechanical Engineering Technology (EMET)

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

Semester 1		Credits
ENG 101	English Composition	3
PSET 110	Power Systems CAD	3
MET 111	Manufacturing Processes 1	3
EET 131	Circuit Analysis 1	4
EMET 140	Electro-Mechanical Engineering Technology Foundations	2
MAT XXX		4
Mathematics Elective		
1		
Semester 2		
ENG 10X English		3
Composition Elective		
EET 121	Digital Systems 1	3
EET 132	Circuit Analysis 2	4
MET 150	Statics and Strength of Materials for MET	3
MAT XXX		4
Mathematics Elective		
2		

#### Semester 3

EMET 291	Full-Time Cooperative Education 1: Electro-Mechanical Engineering Technology	2
Semester 4		
ECO 1XX Economic	S	3
Elective		
EMET 240	Programmable Logic Controllers, Motors, Motor Controls, and Kinematics	3
MET 240	Hydraulics and Pneumatics	3
EET 251	Electronics 1	4
PHY XXX Physics		4
Elective		
Semester 5		
COMM 110	Public Speaking	3
CULT 110	Social Issues in Technology	3
EMET 250	Servomechanisms	3
EMET 260	Robotics	3
MET 260	Applied Thermodynamics	3
EMET 290	Electro-Mechanical Engineering Technology Capstone	2
Semester 6		
EMET 292	Full-Time Cooperative Education 2: Electro-Mechanical Engineering Technology	2
Total Credits:		74

## **Electives**

#### **Mathematics Electives**

Select one of the following:		8-10
MAT 125 & MAT 126	Algebra and Trigonometry and Functions and Calculus	
MAT 251 & MAT 252	Calculus 1 and Calculus 2	
English Composition Elective		
ENG 102	Composition and Argument	3
ENG 103	Composition and Literature	3
ENG 104	Composition and Technical Communication	3
ENG 105	Composition and Business Communication	3
Economics Elective		
ECO 105	Principles of Microeconomics	3
ECO 110	Principles of Macroeconomics	3
Physics Elective		
PHY 151	Physics 1: Algebra and Trigonometry-Based	4
PHY 201	Physics 1: Calculus-Based	5

# Electro-Mechanical Engineering Technology—Laser Major (EMETL)

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

Semester 1		Credits
ENG 101	English Composition	3
PSET 110	Power Systems CAD	3
MET 111	Manufacturing Processes 1	3
EET 131	Circuit Analysis 1	4
EMET 140	Electro-Mechanical Engineering Technology Foundations	2
MAT XXX		4
Mathematics Elective		

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1
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Semester 2

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ocial Issues in Technology otical Components, and Geometrical and Wave Optics	3 3 4
ocial Issues in Technology	3
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ectronics 1	4
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rdraulics and Pneumatics	3
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II-Time Cooperative Education 1: Electro-Mechanical Engineering Technology	2
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aital Systems 1	3
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### Electives

#### Mathematics Electives

Select one of the following:		8-10
MAT 125 & MAT 126	Algebra and Trigonometry and Functions and Calculus	
MAT 251 & MAT 252	Calculus 1 and Calculus 2	
English Composition Elective		
ENG 102	Composition and Argument	3
ENG 103	Composition and Literature	3
ENG 104	Composition and Technical Communication	3
ENG 105	Composition and Business Communication	3
Economics Elective		
ECO 105	Principles of Microeconomics	3
ECO 110	Principles of Macroeconomics	3
Physics Elective		
PHY 151	Physics 1: Algebra and Trigonometry-Based	4
PHY 201	Physics 1: Calculus-Based	5

# Electro-Mechanical Engineering Technology Renewable Energy and Energy Efficiency Major (EMTR)

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

Semester 1   Credits     ENG 101   English Composition   3     PSET 110   Power Systems CAD   3     MET 111   Manufacturing Processes 1   3     EET 131   Circuit Analysis 1   4     EMET 140   Electro-Mechanical Engineering Technology Foundations   2     MAT XXX   4     Mathematics Elective   3     Semester 2   5     ENG 10X English   3     Composition Elective   3     EET 121   Digital Systems 1   3     EET 122   Circuit Analysis 2   3     EET 123   Circuit Analysis 2   4     MAT XXX   4     Matematics Elective   3     EET 121   States and Strength of Materials for MET   3     MAT XXX   4   Mathematics Elective   4     Semester 3   5   5     EMET 291   Full-Time Cooperative Education 1: Electro-Mechanical Engineering Technology   3     EMET 291   Electro-Mechanical Engineering Technology   3     EMET 291			o "'
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Total Credits: 73		Full-Time Cooperative Education 2: Electro-Mechanical Engineering Technology	
	I otal Credits:		73

### Electives

#### **Mathematics Electives** Select one of the following: 8-10 Algebra and Trigonometry MAT 125 & MAT 126 and Functions and Calculus MAT 251 Calculus 1 & MAT 252 and Calculus 2 **English Composition Elective** ENG 102 Composition and Argument 3 ENG 103 Composition and Literature 3 ENG 104 3 Composition and Technical Communication ENG 105 Composition and Business Communication 3 **Economics Elective**

ECO 105	Principles of Microeconomics	3
ECO 110	Principles of Macroeconomics	3