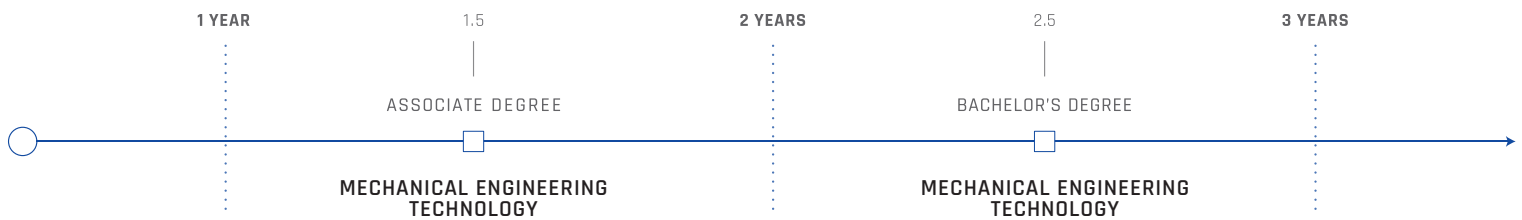


MECHANICAL ENGINEERING TECHNOLOGY

Modern manufacturing is making a major comeback, thanks to robotics and advanced electronics. With this new technology comes the need for highly-skilled workers who can operate, maintain, and repair such machinery. The manufacturing plants of today are modern marvels that resemble science labs. Many workers who fill these advanced facilities would benefit from a Bachelor's of Science Degree in Mechanical Engineering Technology.

Mechanical Engineering Technologists are hands-on problem solvers who occupy a variety of roles in the field, from support technician to plant manager. The work may revolve around the design, testing, manufacturing, maintenance, repair, or operation of robotics and other advanced electronics.

At ECPI University, students have the opportunity to conduct and analyze experiments, interpret their results, and design future innovations in the field through this ABET Accredited program. Through our year-round schedule, you could earn your Bachelor of Science Degree in Mechanical Engineering Technology from ECPI University in as little as 2.5 years.



Possible Career Track

ECPI University's curriculum prepares graduates for entry-level employment in various public and private industries in areas such as:

- ▶ Mechanical Engineering Technology
- ▶ Mechanical Product Design & Fabrication
- ▶ CAD & Computer Graphics
- ▶ Automation & Manufacturing
- ▶ Machining & Mechanical Maintenance
- ▶ Power Generation & Plant Management
- ▶ Climate Control: Heating, Ventilation, & Air Conditioning
- ▶ Transportation: Vehicles & Infrastructure
- ▶ Aerospace & Aerodynamics Industry
- ▶ Systems Control

Mechanical Engineering Technology graduates are employed in a wide spectrum of positions such as:

- ▶ Mechanical Engineering Consultant
- ▶ Product and Materials Testing Technologist
- ▶ Drafting and Computer Graphics Engineer
- ▶ Manufacturing and Quality Management Engineer
- ▶ Industrial Engineer
- ▶ Product Engineer
- ▶ Plant Maintenance and Production Manager
- ▶ Transportation Engineer
- ▶ Power and Energy Engineer

Outcomes

The learning outcomes of the BS MET program include the following:

- ▶ Select and apply current knowledge of mathematics, science, and engineering and technology
- ▶ Select and apply current knowledge, techniques, skills, and modern tools of mechanical engineering technology
- ▶ Design systems, components, or processes
- ▶ Conduct tests, measurements, experiments, and interpret results thereof
- ▶ Identify, analyze and solve key problems, and improve processes
- ▶ Communicate effectively by preparing technical reports, documenting work or writing papers, and by making individual and group presentations
- ▶ Demonstrate an understanding of professional, ethical, and social responsibilities while collaborating effectively with diverse team members to achieve a designated task



**Engineering
 Technology
 Accreditation
 Commission**

ABET, The Bachelor of Science in Electronic Systems Engineering Technology and the Bachelor of Science in Mechanical Engineering Technology programs at the Virginia Beach and Newport News, VA campuses and Online are accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org. ABET, 415 North Charles Street, Baltimore, MD 21201 +1.410.347.7700



MECHANICAL ENGINEERING TECHNOLOGY

BACHELOR OF SCIENCE DEGREE

To receive the Bachelor of Science in Mechanical Engineering Technology, the student must earn 124 semester credit hours. The program requires a minimum of eight semesters, 120 weeks, 30 months of instruction.

Program Requirements are as follows:

CORE CURRICULUM	CREDITS	ARTS AND SCIENCES*	CREDITS
70 SEMESTER CREDIT HOURS		37 SEMESTER CREDIT HOURS	
DC & AC Circuits	3	Arts and Sciences Capstone	3
Electronic Devices & Operational Amplifiers	3	Principles of Communication	3
Introduction to Programming	3	College Composition	3
Applied Engineering Programming	3	Advanced Composition	3
Statics	3	Culture and Diversity	3
Mechanisms	3	College Algebra	3
Dynamics	3	Pre-calculus	3
Engineering Graphics Communication	3	Applied Calculus I	3
Introduction to 3-D Modeling LAB	1	Applied Calculus II	3
Advanced 3-D Modeling	3	Physics	3
Materials Science	3	Physics LAB	1
Manufacturing Processes	3	TWO OF THE FOLLOWING	
Machine Tools	3	Macroeconomics	3
Machine Tools LAB	1	Microeconomics	3
CNC Machines	3	Introduction to Psychology	3
Applied Strength of Materials	3	Positive Psychology	3
Materials LAB	1		
Machine Design	3		
Applied Finite Element Analysis	3		
Hydraulics and Pneumatics Systems	3		
Hydraulics and Pneumatics Systems LAB	1		
Applied Fluid Mechanics	3		
Applied Fluid Mechanics LAB	1		
Applied Thermodynamics	3		
Applied Heat Transfer	3		
Heat Transfer and Thermodynamics LAB	1		
Senior Project	3		
Senior Project LAB	1		
		SELF INTEGRATION	
		9 SEMESTER CREDIT HOURS	
		Computer Configuration I	3
		Engineering Math & Software Applications	3
		Career Orientation Seminar	0
		Essentials for Success	3
		ELECTIVES	
		SEMESTER CREDIT HOURS	8
		SEMESTER CREDIT HOURS	124

*For allowable substitutions of arts and sciences courses, see the Arts and Sciences Department page

*These are the courses making up the degree plan at the time of student enrollment. The University at its sole discretion may modify the program track as deemed necessary.

START DATE _____
ORIENTATION _____

Tuition Includes

- ▶ Tutoring
- ▶ Parking fees
- ▶ Graduate employment services
- ▶ Externships (if applicable)
- ▶ Subsidized certification vouchers
- ▶ Full- and part-time job assistance while attending school

Application Fee \$15 non-refundable, one-time charge

Registration Fee \$100

Monthly Payment Monthly payments are determined after all federal grants and loans, scholarships, and alternative loans are applied.

What You Need

- ▶ Complete FAFSA online at fafsa.ed.gov (for help go to: ecpi.edu/fa)
- ▶ 3 references

Program Cost

- ▶ Associate = 5 semesters x \$8,712 = \$43,560 (estimate)
- ▶ Bachelor's = 8 semesters x \$8,712 = \$69,696 (estimate)
- ▶ ECPI semester = 15 weeks consisting of three 5-week terms
- ▶ Technology fee = \$480.00 per semester
- ▶ ECPI University reserves the right to make changes in tuition and fees without further notice.



ENGINEERING TECHNOLOGY PROGRAM DEGREES

ASSOCIATE DEGREE

- ▶ Mechanical Engineering Technology

BACHELOR'S DEGREE

- ▶ Mechanical Engineering Technology

*Programs offered vary by campus location.

