

ENGINEERING TECHNOLOGY

Specialization: Medical Technology and Healthcare Systems



ABOUT THIS PROGRAM

IS THIS PROGRAM FOR YOU?

If you are interested in understanding the design of medical equipment and developing the skills needed to maintain the devices used in hospitals and clinics related to patient care, then this program is for you.

A PROGRAM TO FUEL YOUR FUTURE

Explore the technology that powers medical equipment and enables access to healthcare systems. Students will learn about medical instrumentation with principles of biomedical devices used in healthcare systems and medical imaging technologies. You'll have the opportunity to immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

CAREER OPPORTUNITIES

Graduates of DeVry's [Engineering Technology associate degree program with a specialization in Medical Technology and Healthcare Systems](#) may consider, but are not limited to, the following careers:

- Biomedical Technician
- Biomedical Engineering Technician
- Computer User Support Specialist
- Electrical and Electronic Engineering Technologists and Technicians
- Electro-Mechanical and Mechatronics Technologists and Technicians
- Engineering Technologist General
- Engineering Technologist and Technicians, Except Drafters, All Other
- Field Service Technician
- Industrial Engineering Technologists and Technicians
- Medical Equipment Repairer
- Repair Technician

WHAT YOU'LL LEARN

ESSENTIALS

- Communicate methods and findings
- Collaborate in a dynamic work environment
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE

- Illustrate the basics of computing and explain the value of data and troubleshooting
- Install and configure operating systems using Command Line Interface (CLI)
- Solve technical problems using an algorithmic approach and basic programming and coding methods.
- Network, secure, and deploy digital devices and sensors into the internet of things ecosystem

PROGRAM

- Design and analyze circuits ensuring proper construction, voltage and currents
- Understand the essential components of control systems designs and how to apply ladder logic to debug or maintain applications

SPECIALIZED

- Learn basic medical terminology, human body structure and processes
- Understand the design, function and features of common medical devices and healthcare systems
- Understand the basic components of various imaging systems and how to maintain/troubleshoot them to ensure image quality
- Transfer and manipulate medical record and device information over networks

QUICK FACTS

64
CREDIT HOURS
minimum credit hours
required for graduation

21
COURSES



ACCREDITATION MATTERS

ETAC of ABET accredits postsecondary, degree-granting programs that meet their global standards for technical education. This is a global mark of quality that is respected by employers and professional associations within the Engineering Technology field. The Associate in Engineering Technology degree program is accredited by The Engineering Technology Accreditation Commission of ABET (ETAC of ABET) www.abet.org.

CERTIFICATION EXAM ALIGNED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities to help validate your knowledge and skills, such as:

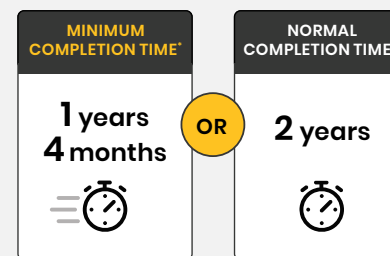
- CompTIA Linux+ • CompTIA A+ • CompTIA ITF+
- PCEP Certified Entry-Level Python Programmer

**SKILLS
FOCUSED**

ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Associate Degree** in as little as **1 years 4 months**.

Or, follow a normal schedule and complete your program in 2 years.



* Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 15-17 credit hours a semester per 12-month period.

** Normal completion time includes breaks and assumes 2 semesters of enrollment in 15-17 credit hours per semester per 12-month period.

Engineering Technology – Medical Technology and Healthcare Systems

ESSENTIALS

26
CREDIT HOURS

COMMUNICATION SKILLS

ENGL112 Composition
SPCH275 Public Speaking

HUMANITIES

ETHC232 Ethical and Legal Issues in the Professions

SOCIAL SCIENCES

SOCS185 Culture and Society

MATHEMATICS AND NATURAL SCIENCES

MATH114 Algebra for College Students
TECH204 Everyday Physics

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD205 Career Development
COLL148 Critical Thinking and Problem-Solving

TECH CORE

12
CREDIT HOURS

TECH CORE

CEIS101 Introduction to Technology and Information Systems
CEIS106 Introduction to Operating Systems
CEIS110 Introduction to Programming
CEIS114 Introduction to Digital Devices

SPECIALIZED

10
CREDIT HOURS

MEDICAL TECHNOLOGY AND HEALTHCARE SYSTEMS

BIOS105 Fundamentals of Human Anatomy and Physiology

Select two

BMET314 Medical Instrumentation
BMET316 Medical Imaging Technology
BMET318 Telemedicine

PROGRAM

16
CREDIT HOURS

PROGRAM FOCUS

ECT226 Electronic Device and System Foundations
ECT286 Automation and Control

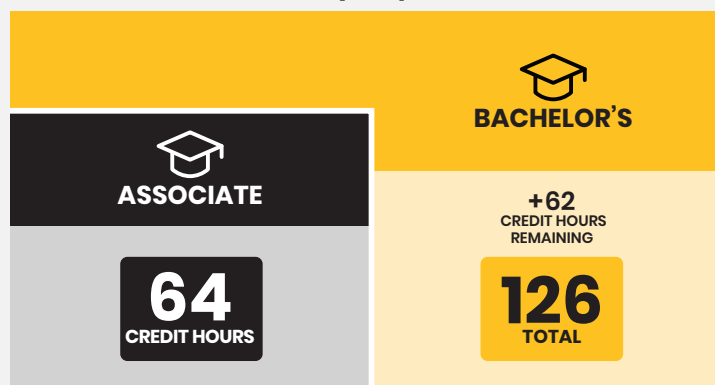
Three of:

ECT308 Introduction to Computer-Aided Design
ECT313 Generative Design
ECT315 Industrial IoT
ECT320 Manufacturing Processes and System
ECT325 Electromechanical Systems
NETW191 Fundamentals of Information Technology and Networking
NETW212 Introduction to Cloud Computing
SEC285 Fundamentals of Information System Security
TECH301 Design of Experiments

CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

Earn a credential at every step.



HOW DO CREDENTIALS STACK?

This Associate in Engineering Technology with a specialization in Medical Technology and Healthcare Systems can serve as a steppingstone to our Engineering Technology bachelor's degree. If you choose to continue on with your education, all credits apply to this credential. Build your confidence – and your resume – when you start your journey at DeVry.*

*The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. At the time of application to the next credential level, an evaluation of qualifying credits will occur and the most beneficial outcome will be applied. Future programmatic changes could impact the application of credits to a future program. Refer to the academic catalog for details.

visit [DeVry.edu](https://www.devry.edu) | Call 888.DeVry.04

In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), www.hlcommission.org. The University's Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Lisle Campus: 4225 Naperville Rd., Ste. 400, Lisle, IL 60532. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online complaint system <https://complaints.ibhe.org/> or by mail to 1 N. Old State Capitol Plaza, Ste. 333, Springfield, IL 62701-1377. Program availability varies by location. In site-based programs, students will be required to take a substantial amount of coursework online to complete their program. ©2025 DeVry Educational Development Corp. All rights reserved. Version 3/2025