

# 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:

- Electrical and Electronic Engineering Technologists and Technicians
- Field Service Technician
- Computer User Support Specialist
- Engineering Technologist General
- Repair Technician
- Medical Equipment Repairer
- Biomedical Technician
- Biomedical Engineering 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

- Produce, secure, operate and troubleshoot a small enterprise network
- Network, secure and deploy digital devices and sensors into the Internet of Things ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using Command Line Interface (CLI)

### 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

**1 + 4**  
YEAR MONTHS  
minimum length to graduation<sup>1</sup>

### EMBEDDED PROGRAM

**TWO  
IN  
ONE**

DeVry offers a unique 2-in-1 design that allows our Information Technology (IT) Essentials certificate program to be embedded within the Associate in Engineering Technology degree program, giving you the chance to earn your certificate on the way to your associate degree.

### CERTIFICATION EXAM ALIGNED CURRICULUM

**SKILLS  
FOCUSED**

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills.

- CompTIA A+
- CompTIA Network+
- CompTIA Security+
- PCEP Certified Entry-Level Python Programmer
- CompTIA ITF+
- CompTIA Cloud+
- CompTIA Linux+

**DIVERSITY,  
EQUITY &  
INCLUSION**

### BE AN ACTIVE PART OF AN INCLUSIVE FUTURE

Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These options highlight relevant topics to help empower you to promote an inclusive workplace.

<sup>1</sup>Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/online-programs.html>.

# Engineering Technology – Medical Technology and Healthcare Systems

## ESSENTIALS

**26**  
CREDIT HOURS

### COMMUNICATION SKILLS

ENGL112 Composition

*Select one*

SPCH275 Public Speaking

SPCH276 Intercultural Communication ☼

### HUMANITIES

*Select one*

ETHC232 Ethical and Legal Issues in the Professions

ETHC334 Diversity, Equity and Inclusion in the Workplace ☼

### SOCIAL SCIENCES

SOCS185 Culture and Society ☼

### MATHEMATICS AND NATURAL SCIENCES

MATH114 Algebra for College Students

PHYS204 Applied Physics with Lab

### PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD205 Career Development

COLL148 Critical Thinking and Problem-Solving

☼ This icon indicates Diversity, Equity & Inclusion Courses

## TECH CORE

**21**  
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

NETW191 Fundamentals of Information Technology and Networking

NETW211 Fundamentals of Cloud Computing

SEC285 Fundamentals of Information System Security

## PROGRAM

**7**  
CREDIT HOURS

### AUTOMATION AND ELECTRONIC SYSTEMS

ECT226 Electronic Device and System Foundations

ECT286 Automation and Controls

### CAREER PREPARATION

CEIS299 Careers and Technology

## SPECIALIZED

**10**  
CREDIT HOURS

### MEDICAL TECHNOLOGY AND HEALTHCARE SYSTEMS

BIOS205 Anatomy and Physiology for Health Careers

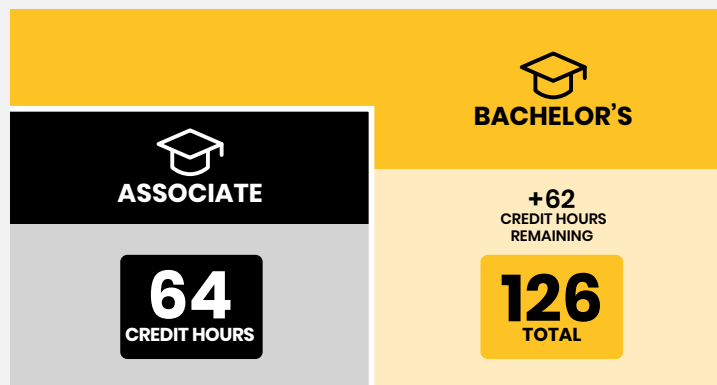
*Select two*

BMET314 Medical Instrumentation

BMET316 Medical Imaging Technology

BMET318 Telemedicine

### 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. At the time of application to the next credential level, an evaluation of qualifying transfer credit will occur and the most beneficial outcome will be applied.

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), <https://www.hlcommission.org>. 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, <https://www.tn.gov/thecc>. Nashville Campus: 301 S. Perimeter Park Dr., Ste. 100, Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry's academic catalog, available via <https://www.devry.edu/catalogs>, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2021 DeVry Educational Development Corp. All rights reserved. Version 8/31/2021