ASSOCIATE DEGREE PROGRAM | TECH - ENGINEERING TECHNOLOGY

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

- 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

ACCREDITATION MATTERS

ABET Engineering Technology Accreditation Commission

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

SKILLS FOCUSED

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 Security+
- CompTIA Network+
- CompTIA Linux+
- CompTIA Cloud+

ACCELERATE AT YOUR PACE

MINIMUM COMPLETION TIME*	OR	NORMAL COMPLETION TIME**
1 years 4 months		2 years

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.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 15-17 credit hours per semester and continuous, full-time year-round enrollment with no breaks.

**Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 15-17 credit hours per semester.

DeVry University

Associate Degree Program | Tech - Engineering Technology

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

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 course options – denoted by this icon – highlight relevant topics to help empower you to promote an inclusive workplace.

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

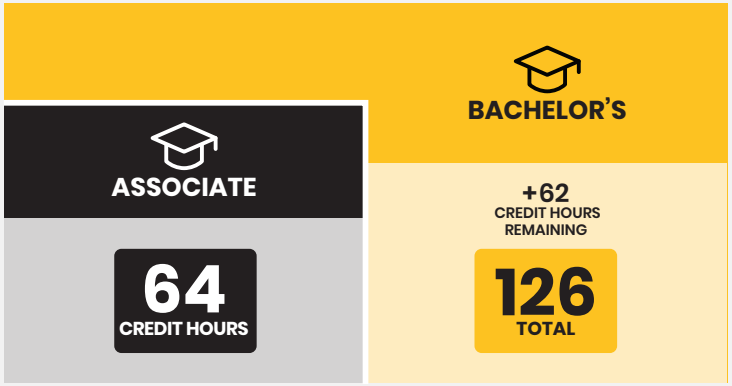
MEDICAL TECHNOLOGY AND HEALTHCARE SYSTEMS

BIOS105 Fundamentals of Human Anatomy and Physiology

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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DeVry University