

BIOMEDICAL ENGINEERING TECHNOLOGY, AS

Program code: BMDT-AS

Location: Gateway

Program Description

The rapid development of biomedical equipment technology, combined with the introduction of increasingly complex and vital biomedical equipment, has created a serious need for well-prepared technicians in hospitals and medical research centers. These technicians must understand this new technology and be capable of maintaining, calibrating, modifying, and adapting this equipment. CT State Community College's Biomedical Engineering Technology Associate Degree program will qualify students for these demanding careers.

Learning Outcomes

Upon successful completion of all program requirements, graduates should be able to:

1. Show mastery of the knowledge, techniques, skills and modern tools of biomedical engineering technology
2. Apply current knowledge and adapt to emerging applications in mathematics, science, engineering, and technology
3. Conduct, analyze, and interpret experiments and apply experimental results to improve processes
4. Function effectively as part of a team
5. Communicate effectively
6. Display professional, ethical, and social responsibilities

Growth in the biotechnology industry offers graduates of this program new opportunities as instrumentation calibration technicians for production, validation, and research equipment and instrumentation. Equipment manufacturers require the services of biomedical engineering technicians to assist in developing, manufacturing, testing, service, and technical sales of biomedical equipment. Graduates of this program are also capable of dealing with most types of nonmedical electronics.

Degree Requirements

Code	Title	Credits
General Education Courses		
ENG 1010	Composition	3
MATH 2600	Calculus I	4
Elective ARHX - Arts & Humanities Course		3-4
PHYS 1201	General Physics I	4
Elective SBSX - Social / Behavioral Science Course or Elective HISX - Historical Knowledge Course		3
Elective ORAX - Oral Communication Course or Elective WRIX - Written Communication II Course		3
CCS 1001	College and Career Success	3
Program Courses		
CENT 1016	Computer Applications for Technology	3
BMED 1010	Biomedical Technology	2
BMED 1016	Physiological Systems	4

BMED 2010	Biomedical Instrumentation	4
BMED 2012	Biomedical Equipment Design	4
BMED 2014	Advanced Biomedical Instrumentation	4
BMED 2020	Biomedical Practicum	3
CHEM 1110	Concepts of Chemistry	4
CENT 1010	Electric Circuits for Technology	4
CENT 1036	Electronics for Technology	4
CENT 2052	Digital Electronics for Technology	4
Total Credits		63-64