The Anoka Technical College Biomedical Equipment Technician (BMET) program is a 72-credit Associate of Applied Science (AAS) degree that includes technical and general education components. This degree provides the skills for working in hospitals, manufacturing, and field service plus the possibility to pursue a Bachelor of Arts (BA) degree with cooperating colleges and universities. Full time students can obtain an applied associate science degree in two years. Financial assistance is available for those who qualify and there are several BMET program-specific scholarships available.

Designed by biomedical and manufacturing industry leaders, the program provides a comprehensive, hands-on, career-oriented curriculum. Students will obtain a solid education in biomedical devices/industry fundamentals, electronic engineering fundamentals, computer/networking fundamentals.

Biomedical technicians play a vital role in health care, enhancing the user experience by ensuring all medical equipment is safe and in proper working condition. Technicians inspect, calibrate, maintain, and repair diagnostic equipment, monitoring equipment, therapeutic and life-saving medical equipment (defibrillators, ventilators, drug delivery pumps, CT and MRI Scanners, and more) found in hospitals, medical clinics, imaging centers and medical device companies.

The BMET is a skilled technician that demonstrates the knowledge to ensure a safe, reliable health care environment. Referenced from International Certification Commission (ICC) handbook http://www.aami.org/certification/

Program Learning Outcomes
By completing this program, students will achieve the following learning outcomes.

- Interpersonal and employability skills: Communicate with peers and customers using professional, ethical and appropriate verbal and nonverbal communication skills; by accepting constructive feedback and displaying appropriate behavior; participating as a member of a team, exhibiting leadership and lifelong learning skills.
- Electronic Theory: Demonstrate a solid understanding of electronics; by interpreting electronic schematics and diagrams; research, organize and interpret information from various technical sources; identifying components; electronic test equipment used by technician in industry.
- Biomedical Systems: Convey the understanding of complex relationships between sections of specialized equipment through written, verbal, and/or demonstrative methods.
- Troubleshooting: Demonstrate principles of troubleshooting and logical diagnosis by using critical thinking skills to define, analyze, and implement a solution.
- Biomedical Applications: Evaluate and determine that all biomedical equipment is in proper working condition, ensuring a safe, reliable health care environment.
- Safety Compliance: Participate in class in a professional manner, by acting in compliance with documented safety procedures and appropriate industry standards.
- Test Equipment: Demonstrate solid understanding of test equipment used by technicians in the health care industry.

Course Prerequisites
Some courses may require appropriate test score or completion of basic math, basic English and/or reading courses with a “C” or better.

Graduation Requirements
All Anoka Technical College students seeking an Associate in Applied Science (AAS), diploma, or certificate must meet the cumulative grade point average (GPA) of 2.0 or higher.

Transfer Opportunities
To see how credits from this program may transfer into other Anoka Technical College programs or into a program at another college, visit:
- Minnesota Transfer
- Anoka Technical College transfer student

Industry Information
In today’s health care market, technology is paramount. The need for a workforce knowledgeable in the theory of operation, underlying physiological principles, and safe application of biomedical equipment is a central concern of many hospitals and companies.

Wages/Outlook/Advancement
Wage information is available from the Minnesota Department of Employment and Economic Development

Start Dates
**Students who start in the spring will need more time to complete this program.**

Limited first semester technical courses are offered in the Spring semester.
Summer Semester ................................................................. 7
☐ MATH 1550  Introduction to Statistics ................................ 4
☐ SPCH 1200  Interpersonal Communication ....................... 3

Fall Semester ........................................................................ 16
☐ BMED 2100* Design & Manufacturing in Medical Device Industry ... 3
☐ BMED 2300* Introduction to Quality Assurance ..................... 3
☐ BMET 1200  Biomedical Equipment and Terminology ............. 2
☐ ETEC 2138  LabVIEW and Data Acquisition .......................... 4
☐ ETEC 2276  Industrial Networking IOT/M2M ......................... 4

Spring Semester ..................................................................... 17
☐ BIOL 1104* The Human Body-Structure & Function ............. 4
OR
☐ BIOL 1130  Human Biology ..................................................... 4
☐ BMED 2200* Introduction to Medical Device Regulations/Ethics ...... 3
☐ BMET 2012  Biomedical Instrumentation ................................ 4
☐ ETEC 2011  Machine-to-Machine Wireless Communications .... 2
☐ MnTC General Education Elective ........................................ 4
* Evening courses taken at Anoka-Ramsey Community College

Faculty Contact
Tom Reid ................................................................. 763-576-4139
Daniel Truchon ............................................................ 763-576-4185

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu

Also see: Robotic and Electronic Engineering Technology AAS and Electronic Technology diploma