

Biomedical Equipment Technology AAS – BITHTAPT

Requirements Effective Summer 2025

Program Planning Guide

Program Description: The Biomedical Technology (BMET) degree program provides specialized training needed to install, calibrate, service, repair, and modify patient monitoring and diagnostic equipment. Coursework includes electronics technology, chemistry, human anatomy and physiology, medical terminology, and preparation specific to employment in hospitals, medical equipment manufacturing, and field service engineering.

Prerequisites: Many classes have prerequisites. Prerequisites are those classes that prove eligibility for entry-level classes by testing or by having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering. Courses in this degree with pre-requisites are marked with an asterisk (*). See catalog for more information.

BMET AAS Prerequisites: Placement into ENGL098 or higher, Placement into MATH 084 or higher.

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

Program Requirements		
Course Number	General Education/Related Instruction Requirements (25 credits)	Credit Hours
BUS 118*	Project Management Introduction and Overview	5
EET 109* or MATH&142*	Mathematical Applications for Circuit Analysis or Pre-Calculus 2	5
ENGL&101*	Composition	5
Human Relations Elective	BUS 236 Interpersonal Communication in the Workplace (preferred) or any approved Human Relations course	5
US Cultures/Global Studies Elective	Approved US Cultures or Global Studies course	5
Course Number	Degree Requirements (72 credits)	
AMA 117	Introduction to Medical Vocabulary	5
CHEM&110 or CHEM&121*	Chemical Concepts W-Lab or Intro to Chemistry	5
EET 105	Introduction to Technology	2
EET 106*	Introduction to Soldering	1
EET 112*	Fundamentals of Fluid Power	5
EET 114*	Applied Physics	5
EET 131	IT Essentials – A+ Certification	5
EET 132*	IT Essentials – A+ Certification Advanced	5
EET 161*	D.C. Principles of Electronics	5
EET 162*	A.C. Principles of Electronics	5
EET 163*	Solid State Electronics	5
EET 165*	Analog Circuits & Devices	5
EET 170*	Digital Electronics & PLCs I	5
EET 286*	Biomedical Equipment I	5
EET 287*	Biomedical Equipment II	5

EET 297	Biomedical Technician Externship	4
		Total Credits: 97 (excluding pre-requisites)

Program Outcomes:

- Identify and apply technical concepts and terms used in the field.
- Analyze and troubleshoot electronic systems.
- Use and configure computer hardware, operating systems, and basic networks.
- Use word processing and electronic circuit simulation software.
- Repair, maintain, and apply relevant information from various sources to address workplace problems.

What skills do I need to be successful in this field?

- <http://www.onetonline.org/link/summary/49-9062.00>

What are some potential job titles?

- Certified Biomedical Equipment Technician (CBET)
- Manufacturer's Field Service Technician
- Medical Electronics Technician

Wages, employment trends and pathways

- <https://www.aami.org>
- <http://www.onetonline.org/link/summary/49-9062.00#WagesEmployment>

Course Sequence: This program of study is outlined by quarter, and courses should be taken in the indicated sequence. However, it should not be concluded that students will always proceed through their program of study exactly as prescribed here. The number of quarters listed here is minimal. Not all courses are offered every quarter. Individual student experiences, educational and training background, and personal schedules and demands all may affect the time it takes to finish this program. Although summer quarter is not considered one of the full-time quarters in the program it would be a good time to take any of the courses listed below at, "Any quarter."

1st quarter: AMA 117, EET 105, EET 109 or MATH&142, EET 161

2nd quarter: BUS 118, EET 106, EET 162, EET 170

3rd quarter: CHEM&110 or CHEM&121, EET 112, EET 163

4th quarter: BUS 236 (or approved Human Relations elective), ENGL&101

5th quarter: EET 131, EET 165, EET 286

6th quarter: EET 114, EET 132, EET 287

7th quarter: Approved US Cultures or Global Studies elective, EET 297

Program Contact: Julie Lyderson-Jackson, 206-934-4609, julie.lyderson@seattlecolleges.edu

Electronics Program Coordinator: Benjamin Roberts, 206-934-4503, benjamin.roberts@seattlecolleges.edu

Website: <https://northseattle.edu/programs/bmet>

NSC Advising Office: 206-934-3658, <https://northseattle.edu/advising>