

## Healthcare Technology Management / BioMedical Equipment Technology AAS – 654D

Requirements Effective Spring 2019

### Program Planning Guide

**Program Description:** The Healthcare Technology Management/BioMedical Technology (HTM/BMET) degree program provides opportunities for students interested in the operation, maintenance and repair of medical equipment and related IT systems. Knowledge of medical equipment technology increases the marketable skills and areas of knowledge for students that are studying in the field of electronics, and opens up more employment possibilities in the fields of health care and medical device manufacturing.

**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.

**HTM/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.

<b>Program Requirements</b>		
<b>Course Number</b>	<b>General Education/Related Instruction Requirements (25 credits)</b>	<b>Credit Hours</b>
BUS 112 or US Culture elective or Global Studies elective	Multicultural Issues in the American Workplace or any approved US Culture course or any Global Studies course	5
Human Relations	Choose one of the following: BUS 236 preferred, HUM 105, ISP 101, ISP 105, ISP 110, POLS 112, SOC&101	5
ENGL&101*	Composition	5
EET 109* or MATH&141*	Mathematical Applications for Circuit Analysis or Pre-Calculus or higher	5
BUS 118*	Project Management Introduction and Overview	5
<b>Course Number</b>	<b>Degree Requirements (72 credits)</b>	
EET 105	Introduction to Technology	2
AMA117	Introduction to Medical Vocabulary	5
CHEM&110 or CHEM&121*	Chemical Concepts W-Lab Intro to Chemistry	5
EET 106*	Introduction to Soldering	1
EET 112*	Fluid Power & Alternative Energy Sources	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 Circuits	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)

### Employment-Related Information:

#### 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

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

#### 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.

**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."

**1<sup>st</sup> quarter:** AMA 117, EET 109 OR MATH&141 (or higher), EET 161, EET 105

**2<sup>nd</sup> quarter:** EET 131, EET 162, ENGL&101

**3<sup>rd</sup> quarter:** EET 112, EET 170, EET 163, CHEM&110 or CHEM&121

**4<sup>th</sup> quarter:** EET 132, EET 286, EET 165, EET 106

**5<sup>th</sup> quarter:** EET 114, EET 287, BUS 118

**6<sup>th</sup> quarter:** EET 297, Human Relations

**Any quarter:** BUS 112 or US Culture course or Global Studies course.

**Program Contact**                      **Tim Fiegenbaum**, 206-934-0181 [Tim.Fiegenbaum@seattlecolleges.edu](mailto:Tim.Fiegenbaum@seattlecolleges.edu)  
**EET Program Coordinator:**      **Tim Fiegenbaum**, 206-934-0181 [Tim.Fiegenbaum@seattlecolleges.edu](mailto:Tim.Fiegenbaum@seattlecolleges.edu)  
**NSC Advising Office:**              206-934-3658 <https://northseattle.edu/advising>  
**Program Website:**                    <https://northseattle.edu/programs/healthcare-tech-management>