

# Biomedical Engineering Technology (EET Option)

Interested in a career in medicine, one that is fulfilling and saves lives? If so, a career as a **biomedical engineering technician** could be for you!

As a valued member of any hospital, health care organization or medical equipment manufacturing company, biomedical engineering technicians maintain and repair medical technology – to ensure that patients receive the best possible care. Equipment testing and installing, as well as problem-solving, are among the many skills the position requires. Graduates also can assist engineers with the design of biomedical equipment.

PCC Sylvania offers **Biomedical Engineering Technology** as an option within the **Electronic Engineering Technology (EET)** program for students seeking an Associate of Applied Science (AAS) degree.



Prerequisites to begin first year EET classes for the **Biomedical Engineering Technology** option include placement in MTH 95 and WR 121. To begin second

year classes for this option, additional courses are required: MP 111, BI 121 and BI 122.

With an expected labor shortage due to baby boomers retiring, the need for health care professionals of all types is expected to increase.

Salaries range from \$41,350 to \$47,736 for biomedical engineering technicians;

those with more experience or advanced degrees can expect to earn more.

Graduates from the program can fully transfer to the Electronics Engineering Technology accredited Bachelor of Science program at the Oregon Institute of Technology. Many courses transfer to other four-year BSEET programs, as well.

For more information, contact **Sanda Williams**, department chair,  
Electronic Engineering Technology

**503-977-4527**

[www.pcc.edu](http://www.pcc.edu)

<http://www.pcc.edu/programs/electronic-engineering/>

## Biomedical Engineering Technology - EET Option

### 2-Year A.A.S. Degree

**Program prerequisites:** Placement in MTH 111 and completion of WR 121;

MP 111 Medical Terminology or any 3-4 credit medical terminology course

BI 121/122 Anatomy and Physiology I and II or BI 231/232/233 Anatomy Physiology I, II, III

Basic computer skills in the Windows™ operating system, email and internet research skills, word processing and spreadsheets are required.

All students must have an advising interview with an EET advisor.

*Do not meet all these prerequisites but still want to start this option? You can start taking electronics classes (placement in math 111 and completion of WR 121) which are part of the BMET option and switch your major to Biomedical Engineering Technology later.*

**Total credits required: 102**

EET Department: Sylvania, ST 208; email: [sanda.williams@pcc.edu](mailto:sanda.williams@pcc.edu)

Engineering office phone 503.977.4159; FAX: 503.977.4859; <http://www.pcc.edu/programs/electronic-engineering/>

#### **First Term**

EET 101	Intro to Electronic Tech	1
EET 111	Electric Circuit Analysis I	5
General Ed:	Social Sciences	3
EET 121	Digital Systems I	3
MTH 111B or C	College Algebra	5
<b>Total:</b>		<b>17</b>

#### **Fourth Term**

EET 221	Semiconductor Devices	5
EET 241	Microcomputer Systems <u>or</u>	4
CIS 278	Data Comm Concepts II	
<sup>3</sup> EET 260	Biomedical Equipment I	4
General Ed:	Arts & Letters	3
<b>Total:</b>		<b>16</b>

#### **Second Term**

EET 112	Electric Circuit Analysis II	5
EET 122	Digital Systems II	4
<sup>1</sup> EET 188	Industrial Safety	1
CIS 179	Data Comm Concepts I	4
MTH 112	Elementary Functions	5
<b>Total:</b>		<b>19</b>

#### **Fifth Term**

EET 222	Op - Amp Circuits	5
EET 242	Microcontroller Systems	4
EET 254	Seminar	1
EET 261	Biomedical Equipment II	4
<sup>4</sup> EET 280C	CE: BMET Practicum	4-11
<b>Total:</b>		<b>25</b>

#### **Third Term**

EET 113	Electrical Power	5
EET 123	Digital Systems III	4
EET 178	PC Architecture for Techs	4
<sup>2</sup> CIS 133U	Intro to C <u>or</u>	4
CS 161	Computer Science I	
<b>Total:</b>		<b>17</b>

#### **Sixth Term**

EET 223	RF Communications Circuits	5
EET 272	Electronic Control Systems	3
<b>Total:</b>		<b>8</b>

<sup>1</sup>OSHA industrial safety training can substitute

<sup>2</sup>CS 161 is required by OIT

<sup>3</sup>EET 260 Prerequisites: MP 111, BI 122, EET 113, EET 123

<sup>4</sup>EET 280C Prerequisites: EET 260, EET 261. Day course only. Not Paid. Can be completed over two terms - winter, spring, summer, or fall terms. 11 credits required (330 hours)

Start in the fall (day) or in the winter (evening). Third term EET classes are offered in the summer as well. Check with the math department for compressed summer classes. EET program and all its options fully transfer to Oregon Institute of Technology (OIT) in the 4-year BSEET degree-check with the dept. for details or the PCC/OIT agreement on our website. For prior learning credit, contact Sanda Williams, department chair, at [sanda.williams@pcc.edu](mailto:sanda.williams@pcc.edu). To receive formal credit, students must provide official transcripts, complete the Course Substitution form, have it signed by the dept. chair, and sent to the Registrar. Students may have up to 45 Nontraditional credits - please check with the department for details.