



Associate Degree

BET Biomedical Engineering Technology



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Healthcare providers, including hospitals and clinics, rely on biomedical engineering technicians to operate, maintain, troubleshoot, and repair medical equipment. The BET degree can prepare you to work in this expanding technical field.

In addition to a well-rounded general education core, the 71-credit curriculum includes courses in electricity and electronics, physiology, chemistry, mathematics, information sciences, computer networking, physiological transducers, biomedical equipment, and medical equipment troubleshooting. Within this curriculum, students learn operation, inspection procedures, preventive maintenance, and troubleshooting of most of the standard types of medical instrumentation. Throughout the program, they will gain exposure and experience working with patient monitors, infusion devices, electrosurgical units, defibrillators, pacemakers, anesthesia machines, and ventilators, just to name a few.

The curriculum culminates in a 400 hour (40 hours/week for 10 weeks) clinical internship at one of over 50 approved healthcare facilities throughout Pennsylvania, Ohio, West Virginia, Maryland and many other states.

The Penn State New Kensington Biomedical Engineering Technology Associate Degree (BET) program is one of only several programs of its kind in the nation to be accredited by the Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, Maryland, 21202 – Telephone 410-347-7700.

This curriculum not only prepares students for entry into the biomedical field, but also gives them the education necessary to sit for the International Certification Commission (ICC) Certified Biomedical Equipment Technician (CBET) exam or to pursue a B.S. degree in Engineering Technology.

The Penn State New Kensington Biomedical Engineering Technology Program has long been recognized by the biomedical community as a leader in providing a quality biomedical technology education and for producing well qualified and knowledgeable technicians.

Visit us on the web at: <http://www.nk2.psu.edu/bet>

Learn more about TAC of ABET on the web at: <http://www.abet.org>

For more information, contact:

Admissions: 724-334-LION -or-
888-968-PAWS

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Sample Semester Planner		Notes:
First Semester		A minimum of 71 credits is required for graduation.
EE T 105 - Electrical Systems	Credits 3	
BE T 101 - Introduction to Medical Equipment Maintenance	1	
IST 110* - Introduction to Information Science & Technology	3	
ENGL 15 - Rhetoric and Composition	3	
Math 26 - Technical Math (Trig)	3	
Social Science, Humanities, or Art Elective	3	
Semester Credit Total	16	The curriculum culminates in a 400 hour (40hrs/week for 10 weeks) clinical internship.
Second Semester		
CMPET 117 - Digital Electronics	Credits 3	
CMPET 120 - Digital Electronics Lab	1	
IST 220 - Networking and Telecommunications	3	
Math 22 - Technical Math (Algebra)	3	
CHEM 101 - Introduction to Chemistry	3	
Sociology or Humanities or Arts	3	
Semester Credit Total	16	This brochure is intended for informational purposes, not advising. Please seek the advice of your academic advisor when creating your schedule.
Third Semester		
BE T 201* - Medical Equipment & Systems I	Credits 5	
BE T 205* - Medical Electronics I	3	
BIOL 141 - Introductory Physiology OR BISC 004 - Human Body Form and Function	3	
PHYS 150 - Technical Physics I	3	
RADSC 230 - Radiation Physics	3	
Semester Credit Total	17	
Fourth Semester		
BE T 202* - Medical Electronics II	Credits 4	
Elective - Technical Elective	3	
BE T 204W* - Medical Equipment & Systems II	5	
Sociology or Humanities or Arts	3	
CAS 100 - Effective Speech	3	
Semester Credit Total	18	
Summer Internship		
BET 203* - Biomedical Equipment Laboratory (Internship)	Credits 4	

* A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.