BIOMEDICAL ENGINEERING,
B.S.

Begin Campus: Any Penn State Campus
End Campus: University Park

Program Educational Objectives
Three to five years after graduation, we expect our graduates to be:

• employed in industry and government positions which include,
  but are not limited to, research and development, regulation,
  manufacturing, quality assurance and sales and marketing, or,
• enrolled in graduate school, continuing education, or other
  professional development programs related to biomedical sciences
  and engineering, or,
• enrolled in medical school, dental school, or other health-related
  professional training programs.

Student Outcomes
Student outcomes describe what students are expected to know and
be able to do by the time of graduation. The Biomedical Engineering
program is designed to enable students to:

1. Identify, formulate, and solve complex engineering problems by
   applying principles of engineering, science, and mathematics
2. Apply engineering design to produce solutions that meet specified
   needs with consideration of public health, safety, and welfare, as well
   as global, cultural, social, environmental, and economic factors
3. Communicate effectively with a range of audiences
4. Recognize ethical and professional responsibilities in engineering
   situations and make informed judgments, which must consider the
   impact of engineering solutions in global, economic, environmental,
   and societal contexts
5. Function effectively on a team whose members together provide
   leadership, create a collaborative and inclusive environment,
   establish goals, plan tasks, and meet objectives
6. Develop and conduct appropriate experimentation, analyze and
   interpret data, and use engineering judgment to draw conclusions
7. Acquire and apply new knowledge as needed, using appropriate
   learning strategies.