Consistent with the overall mission of the University of Pittsburgh at Bradford, the Bachelor of Science degree in Biology Education includes a liberal arts core curriculum, much of which is taken during the first two years of study.

**Employment Opportunities:**

Secondary Education Teacher  
School Administrator  
College/University Professor  
Research Scientist  
Nature Interpreter (Parks)  
Museum Coordinator  
Science Writer  
Physician  
Veterinarian  
Nature Museum Coordinator  
Rehabilitation Counselor  
Grant Writer  
Speech Pathologist  
Tutor  
Child Life Specialist  
Healthcare Administrator  
Hospital Educator  
Medical Equipment Sales  
Research Analysis  
Missionary  
Librarian  
School Psychologist

The Biology Education major prepares students to teach biology, anatomy and physiology or other life-science courses in secondary school systems. Biology Educators help students in developing a greater understanding of life and an appreciation for the complex interactions of all living things.

Biology Education majors at Pitt-Bradford take courses in education and biology to prepare students to lead their own classroom after graduation. Courses for majors include Biodiversity, Ecology, Chemistry, Education Law and Methods, Educational Psychology and Content Curriculum.

**Required Skills:**

- Teaching  
- Knowledge of Sciences  
- Writing and Presenting  
- Decision Making  
- Organization  
- Flexibility  
- Team Player  
- Creativity

**Possible Employers:**

- School Systems  
- Non-Profit Organizations  
- Industries  
- Consulting Firms  
- Healthcare Administration  
- Museums  
- Libraries  
- Colleges or Universities

**PROFESSIONAL ORGANIZATIONS:**

National Association for Biology Teachers (NABT)  
National Science Teachers Association (NSTA)  
The Association for Science Teacher Education  
National Academy of Sciences

**FIND OUT MORE ABOUT CAREERS IN BIOLOGY EDUCATION AT:**

American Institute of Biological Sciences  
Teacher Education Website  
Occupational Outlook  
Career Services  

www.nabt.org  
www.nsta.org  
www.theaste.org  
www.nas.edu  
www.aibs.org/careers  
webistes.pdesas.org/jar1/default.aspx  
http://www.bls.gov/oco/ocos066.htm  
www.upb.pitt.edu/career.aspx
Biology Education (BS) – Curriculum Guide

GENERAL EDUCATION REQUIREMENTS

COMPETENCIES
(Minimum grade of C- required in all competencies)

☐ FS 0102 Freshman Seminar
  (if transferring in fewer than 18 credits)

Writing

☐ ENG 0101 English Composition I
☐ ENG 0102 English Composition II

Mathematics

☐ *MATH 132 pre-Calculus OR
  MATH 136 Applied Calculus OR MATH 140 Calculus

THE HUMAN EXPERIENCE

☐ Students are required to complete two courses designated
  as “Global”

ARTS & LETTERS (ONE course MUST be literature;
ONE course MUST be a creative, fine or performing Arts course)

☐ Literature
☐ Arts
☐ Literature, Arts, Language

BEHAVIORAL, ECONOMIC, & POLITICAL SCIENCES
(Two different categories must be represented)

☐ *PSY 0101 Introduction to Psychology

*Pre-requisite for EDUC 1330

HISTORY, CULTURES, & PHILOSOPHICAL INQUIRY
(ONE course MUST be History, and ONE course must be Cultures
or Philosophical Inquiry)

☐ HIST

PHYSICAL, LIFE, & COMPUTATIONAL SCIENCES
(ONE course must be a Physical Science, ONE must be a Life
Science and ONE must include a lab)

☐ (See Major)
☐ (See Major)
☐ (See Major)
☐ Lab (See Major)

PHYSICAL EDUCATION

☐ PEDC

REQUIRED BIOLOGY MAJOR COURSES

☐ BIOL 0101 Introduction to Cell & Molecular Biology GE
☐ BIOL 0102 Introduction to Biodiversity GE
☐ BIOL 0203 Genetics
☐ BIOL 0217 Principles of Ecology & Evolution GE
☐ BIOL 1451 Capstone
☐ UL BIOL ELECTIVE
☐ UL BIOL ELECTIVE
☐ CHEM 0101 General Chemistry I GE
☐ CHEM 0102 General Chemistry II GE
☐ MATH Elective

*Take ONE of the following:

☐ MATH 0132 Pre-Calculus GE
  MATH 0136 Applied Calculus GE
  MATH 0140 Calculus I GE

Take ONE of the following:

☐ PHYS 0101 Introduction to Physics I GE
  PHYS 0103 Concepts of Modern Physics GE
  PHYS 0201 Foundations of Physics I GE

REQUIRED EDUCATION COURSES

☐ EDUC 0204 Introduction to Education
☐ EDUC 0215 English Language Learners
☐ EDUC 0220 Special Education Law
☐ EDUC 0235 Instructional Design
☐ EDUC 0275 Adolescent Literature
☐ EDUC 1301 Instructional Technology
☐ EDUC 1307 Secondary Methods
☐ EDUC 1325 Development of Exceptional Children
☐ EDUC 1330 Educating Exceptional Children
☐ EDUC 1334 Literacies across the Middle & Sec. Curriculum
☐ EDUC 1345 Educational Theories and Practices
☐ EDUC 1350 Educational Psychology and Measurement

☐ EDUC 1481 Student Teaching

TOTAL CREDIT HOURS REQUIRED FOR MAJOR: 129

*MATH 0098 does not meet the mathematics competency at
the Pittsburgh campus

According to your Degree Progress Report in MY.PITT.EDU
upon successful completion of the current term:

You will have EARNED ________ credit hours
You NEED a minimum of ________ for 126 credit hours required for
graduation. Additional courses may be necessary to meet the minimum
curricular requirements.

You will have earned ________ credit hours of Upper Level course work
You NEED ________ for the 30 credit hours required for graduation.

NOTE: This guide is unofficial. Completing the requirements on this sheet
does NOT guarantee degree completion. Official degree completion
information can be found in MY.PITT.EDU. Contact your Faculty Advisor