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) www.nabt.org
- National Science Teachers Association (NSTA) www.nsta.org
- The Association for Science Teacher Education www.theaste.org
- National Academy of Sciences www.nas.edu

**FIND OUT MORE ABOUT CAREERS IN BIOLOGY EDUCATION AT:**
- American Institute of Biological Sciences www.aibs.org/careers
- Teacher Education Website websites.pdesas.org/jar1/default.aspx
- Occupational Outlook http://www.bls.gov/oco/ocos066.htm
- Career Services www.upb.pitt.edu/career.aspx
Biology Education (BS) – Curriculum Guide

Student Name: 

Advisor: 

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 0136 Applied Calculus OR MATH 0140 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.