Chemistry teachers guide middle school and/or high students in discovering the marvelous logic, efficient simplicity and design behind myriad complex events in nature. Chemistry education provides access to helping people understand how things happen in the natural and physical environment.

Chemistry Education majors at Pitt-Bradford take courses in Education and Chemistry to prepare students to lead their own classroom after graduation. Courses for majors include General Chemistry, Organic Chemistry, Physical Chemistry, Calculus, Physics, Instructional Technology, and Introduction to Education, Educational Law, Educational Psychology and Secondary Methods. Chemistry Education majors receive hands-on training by observing classrooms, hosting schoolchildren at events on campus and student teaching.

**Required Skills:**
- Teaching
- Knowledge of Sciences
- Writing and Presenting
- Decision Making
- Organization
- Flexibility
- Team Player
- Creativity

**Possible Employers:**
- School System
- Non-Profit Organization
- Industry
- Consulting Firm
- Healthcare Administration
- Museum
- Library
- College or University

**PROFESSIONAL ORGANIZATIONS:**
- National Science Teachers Association  www.nsta.org
- American Chemical Society  www.acs.org
- Pennsylvania Science Teachers Association  www.pascience.org
- Association of Science Teacher Education  www.theaste.org

**FIND OUT MORE ABOUT CAREERS IN CHEMISTRY EDUCATION AT:**
- EnvironmentalChemistry.com  www.environmentalchemistry.org
- ProTeacher  www.ProTeacher.com
- Occupational Outlook  www.bls.gov/oco/ocos066.htm
- Career Services  www.upb.pitt.edu/career.aspx

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

**Employment Opportunities:**
- Teacher
- School Administrator
- College or University Professor
- Research Scientist
- Science Writer
- Physician
- Science Museum Coordinator
- Grant Writer
- Tutor
- Child Life Specialist
- Hospital Educator
- Medical Equipment Sales
- Research Analysis
- Librarian
- Agriculture Scientist
- Chemical Technologist
- FDA Inspector
- Industrial Buyer
- Genetic Counselor
- Coop Extension Agent
- Pharmaceutical Sales Rep.
# Chemistry Education (BS) – Curriculum Guide

## Student Name: [Name]

## Advisor: [Advisor Name]

### 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 0098 College Algebra II or Higher (see Major)

### 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 (see major)
- Literature, Arts, Language

### BEHAVIORAL, ECONOMIC, & POLITICAL SCIENCES

- PSY 0101 Introduction to Psychology

*Pre-requisite for EDUC 1330

### HISTORY, CULTURES, & 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)
  - Life Science
  - (see major)
  - Lab

### PHYSICAL EDUCATION

- PEDC

### REQUIRED MAJOR COURSES

- CHEM 0101 General Chemistry I GE
- CHEM 0102 General Chemistry II GE
- CHEM 0201 Analytical Chemistry
- CHEM 0206/0207 Organic Chemistry I/Lab
- CHEM 0208/0209 Organic Chemistry II/Lab
- CHEM 1301 Physical Chemistry I
- CHEM 1302 Physical Chemistry II
- CHEM 1305 Analytic Instrumentation
- CHEM 1451 Capstone/Upper-Level Writing
- MATH 0140 Calculus I GE
- MATH 0150 Calculus II GE
- PHYS 0201 Foundations of Physics I w/lab GE
- PHYS 0202 Foundations of Physics II w/lab GE
- EDUC 0204 Introduction to Education
- EDUC 0215 English Language Learners
- EDUC 0220 Special Education Law
- EDUC 0235 Instructional Design
- EDUC 0275 Adolescent Literature GE
- EDUC 1301 Instruction 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 & Practices
- EDUC 1350 Educational Psychology and Measurement
- EDUC 1481 Student Teaching

### TOTAL HOURS REQUIRED: 138

All courses in the major must be completed with a C- or higher and a 3.0 GPA must be maintained.

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

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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 _________ for 135 credit hours required for graduation.
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 and/or the Registrar’s Office with questions or concerns.