## B.S. in Chemistry
### General Science Education Entering in 2014

**Entering in 2014 (5-21-14)**

| Minimum CQPA and MQPA required for graduation | 2.00 |
| Certification minimum CQPA: | 3.00; MQPA: 2.75 |
| MQPA Courses | CHEM, EDUC, GEOL 201, PSYC 102, SEDU 101, ASTR 206, 207, SCIC 202, SCIC 204 |

### General Education + Elective Requirements

- **26 HOURS**
  - **GENERAL EDUCATION REQUIREMENTS**
  - **18 HOURS**
    - **HUMANITIES CORE**
    - **Cr.** | **Sem. Taken** | **Grade**
    - HUMA 101 Civilization (IL) | 3 | |
    - HUMA 102 Biblical Revelation (IL)* | 3 | 1 |  
    - HUMA 201 Speculative Mind (WI) (IL) | 3 | 1 |  
    - HUMA 202 Literature | 3 | 1 |  
    - HUMA 301 Arts | 3 | 1 |  
    - HUMA 302 International Perspective | 3 | 1 |  
  - **FOUNDATIONS OF THE SOCIAL SCIENCES**
  - **3 HOURS**
  - **STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)**
  - **3 HOURS**
    - Choose one course from the following:
    - SSFT 208 Science, Technology & Society
    - SSFT 210 Science & Religion
    - SSFT 212 Science, Faith, Technology & Origins
    - 3 | 1 |  
  - **MAJOR-RELATED REQUIREMENTS**
  - **30-31 HOURS**
  - **CHEMISTRY CORE REQUIREMENTS**
  - **38 HOURS**
    - **Cr.** | **Sem. Taken** | **Grade**
    - CHEM 101 General Chem I | 4 | 1 |  
    - CHEM 102 General Chem II | 4 | 1 |  
    - CHEM 227 Analytical Chem | 4 | 1 |  
    - CHEM 235 Chem in Context (IL) | 1 | 1 |  
    - CHEM 241 Organic Chem I | 4 | 1 |  
    - CHEM 242 Organic Chem II | 4 | 1 |  
    - CHEM 302 Tech in C/Lab Instr | 1 | 1 |  
    - CHEM 345 Microscopic Physical Chem | 4 | 1 |  
    - CHEM 346 Macroscopic Physical Chem | 4 | 1 |  
    - CHEM 351 Biochemistry | 4 | 1 |  
    - CHEM 356 Molec Sym & Group Theory | 1 | 1 |  
    - CHEM 421 Inorg/Bioinorganic Chem | 2 | 1 |  
    - CHEM 488 Chem Seminar (WI) (SI) | 1 | 1 |  
  - **PHYSICAL EDUCATION**
  - **2 HOURS**
    - **Cr.** | **Sem. Taken** | **Grade**
    - PHYE 101 (men) / 111 (women) | 1 | 1 |  
    - PHYE 102 (men) / 112 (women) | 1 | 1 |  
  - **GENERAL ELECTIVES**
  - **0 HOURS**
    - **SUGGESTED ADDITIONAL COURSES:**
    - BIOL 101 General Biology I
    - | |  

### Total Hours Required for this Degree: **134 HOURS**

<table>
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<tr>
<th>Cr.</th>
<th>Sem. Taken</th>
<th>Grade</th>
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### College requirements met through major-related coursework.

**Certification minimum CQPA: 3.00; MQPA: 2.75**

**Minimum CQPA and MQPA required for graduation: 2.00**

**CHEMISTRY REQUIREMENTS**

**38 HOURS**

**CHEMISTRY CORE REQUIREMENTS**

**38 HOURS**

**Cr.** | **Sem. Taken** | **Grade**
--- | --- | ---
CHEM 101 General Chemistry I | 4 | 1
CHEM 102 General Chemistry II | 4 | 1
CHEM 227 Analytical Chemistry | 4 | 1
CHEM 235 Chemistry in Context (IL) | 1 | 1
CHEM 241 Organic Chemistry I | 4 | 1
CHEM 242 Organic Chemistry II | 4 | 1
CHEM 302 Technical in C/Lab Instr | 1 | 1
CHEM 345 Microscopic Physical Chemistry | 4 | 1
CHEM 346 Macroscopic Physical Chemistry | 4 | 1
CHEM 351 Biochemistry | 4 | 1
CHEM 356 Molecular Symmetry and Group Theory | 1 | 1
CHEM 421 Inorganic/Bioinorganic Chemistry | 2 | 1
CHEM 488 Chemistry Seminar (WI) (SI) | 1 | 1

**PHYSICAL EDUCATION**

**2 HOURS**

**Cr.** | **Sem. Taken** | **Grade**
--- | --- | ---
PHYE 101 (men) / 111 (women) | 1 | 1
PHYE 102 (men) / 112 (women) | 1 | 1

**GENERAL ELECTIVES**

**0 HOURS**

**SUGGESTED ADDITIONAL COURSES:**

**Cr.** | **Sem. Taken** | **Grade**
--- | --- | ---
BIOL 101 General Biology I | 1 | 1

### College requirements met through major-related coursework.

**Certification minimum CQPA: 3.00; MQPA: 2.75**

**Minimum CQPA and MQPA required for graduation: 2.00**

**CHEMISTRY REQUIREMENTS**

**38 HOURS**

**Cr.** | **Sem. Taken** | **Grade**
--- | --- | ---
CHEM 101 General Chemistry I | 4 | 1
CHEM 102 General Chemistry II | 4 | 1
CHEM 227 Analytical Chemistry | 4 | 1
CHEM 235 Chemistry in Context (IL) | 1 | 1
CHEM 241 Organic Chemistry I | 4 | 1
CHEM 242 Organic Chemistry II | 4 | 1
CHEM 302 Technical in C/Lab Instr | 1 | 1
CHEM 345 Microscopic Physical Chemistry | 4 | 1
CHEM 346 Macroscopic Physical Chemistry | 4 | 1
CHEM 351 Biochemistry | 4 | 1
CHEM 356 Molecular Symmetry and Group Theory | 1 | 1
CHEM 421 Inorganic/Bioinorganic Chemistry | 2 | 1
CHEM 488 Chemistry Seminar (WI) (SI) | 1 | 1

**MAJOR-RELATED REQUIREMENTS**

**30-31 HOURS**

**Cr.** | **Sem. Taken** | **Grade**
--- | --- | ---
MATH 161 Calculus I | 4 | 1
MATH 162 Calculus II | 4 | 1
MATH 261 Calculus III | 4 | 1
SCIC 202 Life Science | 4 | 1
PHYS 101 OR PHYS 121 Physics I | 4 | 1
PHYS 102 OR PHYS 122 Physics II | 4 | 1

**ASTR 206 Intro to Sky Motions/Planets OR ASTR 207 Intro to Stars/Galax./Cosmol.**

**3**

**GEOL 201 General Geology OR SCIC 204 Environmental Science**

**3-4**

**PROFESSIONAL EDUCATION REQUIREMENTS**

**40 HOURS**

**Cr.** | **Sem. Taken** | **Grade**
--- | --- | ---
EDUC 202 Foundations of Teaching | 3 | 1
EDUC 203 Culturally Relevant Pedagogy | 3 | 1
EDUC 204 Technology of Instruction | 3 | 1
EDUC 305 Curriculum & Instruction | 3 | 1
EDUC 306 Field Experience | 2 | 1
EDUC 317 Field Experience | 1 | 1
EDUC 431 Student Teaching | 16 | 1
EDUC 488 Issues / Comp Educ | 3 | 1
PSYC 102 Educational Psychology | 3 | 1
SEDU 101 Exceptional Learners | 3 | 1

### Grove City College Status Sheet

Status Sheets are provided as a convenience for the student and may be helpful for recording completed courses. However, the College Bulletin is the controlling authority on all requirements. Questions should be directed to your academic advisor or the Registrar.

(WI)=Writing Intensive, (SI)=Speaking Intensive, (IL)=Information Literacy courses.
# DEPARTMENT OF CHEMISTRY

## Suggested Schedule for Chemistry/General Science Secondary Education (CGSE) Majors

### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>CHEM 101 General Chemistry</td>
<td>CHEM 102 General Chemistry</td>
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<td>HUMA 101 Civilization</td>
<td>HUMA 102 Civ/Biblical Revelation</td>
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<td>MATH 161 Calculus I</td>
<td>MATH 162 Calculus II</td>
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<tr>
<td>PHYS 101 or 121 General Physics</td>
<td>PHYS 102 or 122 General Physics</td>
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<tr>
<td>PHYE 101/111 Fitness &amp; Wellness</td>
<td>PHYE 102/112 Fitness &amp; Wellness</td>
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### Sophomore Year

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<td>CHEM 227 Analytical Chemistry</td>
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<td>CHEM 235 Chemistry in Context</td>
<td>CHEM 356 Mole Sym &amp; Group Theory</td>
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<td>CHEM 241 Organic Chemistry I</td>
<td>EDUC 202 Foundations of Teaching</td>
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<td>EDUC 371 Sec Field Experience</td>
<td>HUMA 201 Civ/Speculative Mind</td>
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<tr>
<td>MATH 261 Calculus III</td>
<td>PSYC 102 Educational Psychology</td>
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<td>EDUC 203 Culturally Relevant Pedagogy</td>
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### Junior Year

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<td>EDUC 309 Field Exp/Meth of Teach Sci</td>
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### Senior Year

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<tr>
<td>ASTR 206 Intro to Sky Motions &amp; Planets</td>
<td>EDUC 431 Student Teaching</td>
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<tr>
<td>CHEM 421 Inorganic/Bioinorganic Chemistry</td>
<td>(no other courses)</td>
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<td>CHEM 488 Chemistry Seminar</td>
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<td>Foundations of the Social Sciences</td>
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