

# Bachelor of Science in Chemistry

## Chemistry Major Advising Worksheets

### Required Courses in Science and Mathematics

#### Chemistry: (46 Total) Required

- 3\_\_\_ CHEM 112 Gen. Chem. II
- 1\_\_\_ CHEM 113 Gen. Chem. II Lab.
- 3\_\_\_ CHEM 230 Descriptive Inorganic Chem.
- 2\_\_\_ CHEM 286 Chemical Writing and Reports
- 3\_\_\_ CHEM 320 Analytical Chemistry
- 1\_\_\_ CHEM 321 Analytical Chemistry Lab.
- 3\_\_\_ CHEM 340 Organic Chem.
- 1\_\_\_ CHEM 341 Organic Chem. Lab.
- 3\_\_\_ CHEM 342 Organic Chem. II
- 1\_\_\_ CHEM 343 Organic Chem. II Lab.
- 3\_\_\_ CHEM 400 Inorganic Chem.
- 3\_\_\_ CHEM 410 Advanced Synthesis Lab.
- 3\_\_\_ CHEM 420 Instrumental Analysis
- 1\_\_\_ CHEM 421 Instrumental Analysis Lab.
- 4\_\_\_ CHEM 464 Physical Chem. I
- 1\_\_\_ CHEM 465 Physical Chem. I Lab.
- 4\_\_\_ CHEM 466 Physical Chem. II
- 1\_\_\_ CHEM 467 Physical Chem. II Lab.
- 3\_\_\_ CHEM 480 Biochemistry
- 1\_\_\_ CHEM 481 Biochemistry Lab.
- 1\_\_\_ CHEM 485 Chemistry Capstone

#### Physics: (8 Total)

- 3\_\_\_ PHYS 101 Elementary Physics I
- 1\_\_\_ PHYS 110 Elementary Physics I Lab.
- 3\_\_\_ PHYS 102 Elementary Physics II
- 1\_\_\_ PHYS 111 Elementary Physics II Lab.
- 2\_\_\_ PHYS 200 Intermediate Physics

#### Mathematics: (12 total)

- 4\_\_\_ MATH 210 Calculus and Anal. Geo. I
- 4\_\_\_ MATH 211 Calculus and Anal. Geo. II
- 4\_\_\_ MATH 212 Calculus and Anal. Geo. III

#### Restricted Electives: (15 total)

Choose any 300 level or above CHEM, BIO, or MATH course.

- \_\_\_ CHEM/BIO/MATH
- \_\_\_ CHEM/BIO/MATH
- \_\_\_ CHEM/BIO/MATH
- \_\_\_ CHEM/BIO/MATH
- \_\_\_ CHEM/BIO/MATH

<p><b>Required Courses in General Studies</b></p> <p><b>Scientific Reasoning</b> Choose 4 hours from the following</p> <p>3___ BIO 104 Biology for Non-majors  3___ BIO 105 Biology for Non-majors Lab  3___ BIO 124 Principles of Biology  3___ BIO 125 Principles of Biology Lab  3___ BIO 140 Life Sciences for Ele. Teachers  3___ CHEM 100 Foundations of Chemistry  1___ CHEM 101 Foundations of Chemistry Lab  3___ CHEM 110 General Chemistry  1___ CHEM 111 General Chemistry I Lab.  3___ CHEM 112 General Chemistry II  1___ CHEM 113 General Chemistry II Lab  3___ PHYS 101 Elementary Physics I  1___ PHYS 110 Elementary Physics I Lab.  1___ PHYS 140 Physical Sci. for Ele. Teachers  3___ PHYS 190 Physical World  1___ PHYS 191 Physical World Lab  3___ PHYS 345 Earth and Space Science  1___ PHYS 346 Earth and Space Sci. Lab</p> <p><b>Composition</b>  3/4___ ENG 101 College Composition I  3/4___ ENG 102 College Composition II  3___ ENG 103 Accelerated College Comp.</p> <p><b>Oral Communication</b>  3___ COM 101 Funda. of Oral Comm.</p> <p><b>Applied Reasoning</b> Choose 3 hours from the following</p> <p>3___ COM 203 Argumentation-debate  3___ ECON 102 Principles of Microeconomics  3___ FIN 131 Financial Literacy  3___ LING 150 Intro. to Linguistics  1___ PHIL 210 Logic and Critical Thinking  3___ PSYC 101 Intro. to Psychology</p> <p><b>History</b> Choose 3 hours from the following:</p> <p>3___ HIST 103 History of Civilization I  3___ HIST 104 History of Civilization II  3___ HIST 210 History of U.S. I to 1876  3___ HIST 211 History of U.S. II since 1876</p>	<p><b>Literature</b> Choose 3 hours from the following:</p> <p>3___ ENG 202 Lit. Apprec. for non-majors  3___ ENG 204 British Lit. through 18<sup>th</sup> century  3___ ENG 205 American Lit. before Civil War  3___ ENG 214 British Lit. after 18<sup>th</sup> century  3___ ENG 215 American Lit. after Civil War</p> <p><b>Fine Arts</b> Choose 3 hours from the following:</p> <p>3___ ART 100 Fundamentals of Art  3___ ART 140 Art Appreciation  3___ ART 341 History of Art I  3___ ART 343 Survey of Nonwestern Art  3___ MUS 130 Music Appreciation  3___ MUS 132 Jazz Appreciation  3___ MUS 133 Rock Appreciation  3___ MUS 134 Music in World Cultures  3___ MUS 351 Music Skills and Methods  3___ THE 100 Theater Appreciation  3___ THE 300 History of Theater I</p> <p><b>Humanities and Languages</b> Choose 3 hours from the following:</p> <p>3___ PHIL 201 Intro to Philosophy  3___ PHIL 205 Intro to Ethics  3___ REL 250 Religions of the World  3___ REL 335 Religions of Americas  3___ Any FREN  3___ Any SPAN</p> <p><b>Social Sciences</b> Choose 6 hours from two of the following groups:</p> <p><b>Group I</b>  3___ GEO 205 Intro. to Geography  3___ GEO 206 World Region Geography</p> <p><b>Group II</b>  3___ POLS 101 Basic Concepts of Pol.-Gov.  3___ POLS 201 American Government  3___ POLS 202 American St. and Local Gov.</p> <p><b>Group III</b>  3___ SOC 150 Intro. to Sociology  3___ SWK 201 Ethnicity, Div. &amp; Cult. Aware.</p>
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