



BACHELOR OF SCIENCE DEGREE CHECK SHEET  
MAJOR IN CHEMISTRY  
2011-2012

---

Last	First	Middle or Maiden	ID#	Date
------	-------	------------------	-----	------

---

I. GENERAL EDUCATION (50 hours)

- \_\_\_ ENGL 1113 Composition I
- \_\_\_ ENGL 1213 Composition II
- \_\_\_ COMM 1113 Speech
- \_\_\_ MATH 2215 Calculus & Analytical Geometry I
- \_\_\_ Biological Science (4 hours)
- \_\_\_ CHEM 1361/1364 General Chemistry I
- \_\_\_ HIST 1483 or 1493 U.S. History
- \_\_\_ PS 1113 American Federal Government
- \_\_\_ Humanities (6 hours)
- \_\_\_ FNAR 1013 or \_\_\_\_\_
- \_\_\_ PSY 1113 (preferred) or SOCI 1113
- \_\_\_ ECON 2013 (preferred), or
- \_\_\_ GEOG 3023 or CRM 3603
- \_\_\_ Physical Education activities (4 hours) or
- \_\_\_ Military Science (8 hours)

II. MAJOR/MINOR/ADDITIONAL REQUIREMENTS

A. Required Core Courses (35 hours)

- \_\_\_ CHEM 1361/1364 General Chemistry I
- \_\_\_ CHEM 1471/1474 General Chemistry II
- \_\_\_ CHEM 3113 Fund of Analytical Chemistry
- \_\_\_ CHEM 3232 Quantitative Analysis Lab
- \_\_\_ CHEM 3314 Organic Chemistry I
- \_\_\_ CHEM 3324 Organic Chemistry II
- \_\_\_ PSCI 4442 Lit for Physics & Chemistry\*
- \_\_\_ PHYS 1115 or PHYS 2015 (preferred)
- \_\_\_ PHYS 1215 or PHYS 2025 (preferred)

B. Concentration and Options Requirements  
(See back of page)

1. American Chemical Society Certified Chemistry Degree Option
2. Chemistry Degree Option (requires minor)
3. Health Profession Chemistry Degree Option

ELECTIVES (as necessary to assure 128 hours of courses)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\*PSCI 4442 counts toward total chemistry hours

III. Minor \_\_\_\_\_

(Additional courses in minor: minimum of 18 hours;  
used only for Option 2: Chemistry Degree Option)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

---

IV. GRADUATION REQUIREMENTS

- \_\_\_ Department Requirements
- \_\_\_ Liberal Arts & Sciences (55 hours)
- \_\_\_ Minimum 128 credit hours completed
- \_\_\_ Minimum 40 credit hours upper division
- \_\_\_ Retention GPA 2.0 (C average)
- \_\_\_ Cameron GPA 2.0 (C average)
- \_\_\_ Assessment Completed
- \_\_\_ Complete Departmental Computer Literacy Test
- \_\_\_ Complete Graduation Application at Registrar's Office

American Chemical Society  
 Certified Chemistry Degree Option  
 Major/Minor Option

- A. Required courses (37 hours)**  
 \_\_\_\_\_ CHEM 4025 Instrumental Analysis  
 \_\_\_\_\_ CHEM 4403 Biochemistry I  
 \_\_\_\_\_ CHEM 4334 Advanced Inorganic  
 \_\_\_\_\_ CHEM 4351 Physical Chemistry Lab I  
 \_\_\_\_\_ CHEM 4353 Physical Chemistry I  
 \_\_\_\_\_ CHEM 4361 Physical Chemistry Lab II  
 \_\_\_\_\_ CHEM 4363 Physical Chemistry II  
 \_\_\_\_\_ CHEM 4491-3 Special Problems Research\*  
 \_\_\_\_\_ MATH 2235 Calculus II  
 \_\_\_\_\_ MATH 2244 Calculus III  
 \_\_\_\_\_ MATH 3253 Differential Equations  
 \_\_\_\_\_ MATH 4433 Matrix Algebra (preferred)  
 \_\_\_\_\_ or MATH 2613 Foundations of Mathematics  
 \*Only three hours of CHEM 4491-3 may be counted  
 toward completion of the required fifty hours for chemistry  
 degree. Must take a minimum of two credit hours of  
 Special Problems in Research.

- B. Electives (Sufficient hours necessary for a total of  
 fifty hours of chemistry)**  
 \_\_\_\_\_ CHEM 2441 Working Safely with Chemicals  
 \_\_\_\_\_ CHEM 3334 Chemistry of Water & Wastewater  
 \_\_\_\_\_ CHEM 3343 Organic Analysis  
 \_\_\_\_\_ CHEM 4401 Biochemistry Lab I  
 \_\_\_\_\_ CHEM 4413 Biochemistry Lab II  
 \_\_\_\_\_ CHEM 4332 Advanced Inorganic Lab  
 \_\_\_\_\_ CHEM 4481-3 Advanced Topics in Chemistry

Chemistry Degree Option  
 (must select minor)

- A. Required courses (Choose one of the following  
 concentrations)**  
**1. Physical Chemistry Concentration (8 hours)**  
 \_\_\_\_\_ CHEM 4351 Physical Chemistry Lab I  
 \_\_\_\_\_ CHEM 4353 Physical Chemistry I  
 \_\_\_\_\_ CHEM 4361 Physical Chemistry Lab II  
 \_\_\_\_\_ CHEM 4363 Physical Chemistry II  
**2. Biochemistry Concentration (8 hours)**  
 \_\_\_\_\_ CHEM 4401 Biochemistry Lab I  
 \_\_\_\_\_ CHEM 4403 Biochemistry I  
 \_\_\_\_\_ CHEM 4411 Biochemistry Lab II  
 \_\_\_\_\_ CHEM 4413 Biochemistry II  
**B. Required Upper Division Analytical Elective (3-5 hr)**  
 \_\_\_\_\_ CHEM 3334 Chemistry of Water & Wastewater  
 \_\_\_\_\_ or CHEM 3343 Organic Analysis  
 \_\_\_\_\_ or CHEM 4025 Instrumental Analysis

- C. Electives (Sufficient hours necessary for a total of  
 forty hours of chemistry courses)**  
 \_\_\_\_\_ CHEM 2441 Working Safely with Chemicals  
 \_\_\_\_\_ CHEM 3334 Chemistry of Water & Wastewater  
 \_\_\_\_\_ CHEM 3343 Organic Analysis  
 \_\_\_\_\_ CHEM 4025 Instrumental Analysis  
 \_\_\_\_\_ CHEM 4332 Advanced Inorganic Lab  
 \_\_\_\_\_ CHEM 4334 Advanced Inorganic  
 \_\_\_\_\_ CHEM 4481-3 Advanced Topics in Chemistry  
 \_\_\_\_\_ CHEM 4491-3 Special Problems Research\*  
 \*Only three hours of CHEM4491-3 may be counted  
 toward completion of the required forty hours for the  
 chemistry degree.

Health Profession  
 Chemistry Degree  
 Major/Minor Option

- A. Required courses (23 hours)**  
 \_\_\_\_\_ CHEM 4401 Biochemistry Lab I  
 \_\_\_\_\_ CHEM 4403 Biochemistry I  
 \_\_\_\_\_ CHEM 4411 Biochemistry Lab II  
 \_\_\_\_\_ CHEM 4413 Biochemistry II  
 \_\_\_\_\_ BIOL 1364 Principles of Biology I  
 \_\_\_\_\_ BIOL 1474 Principles of Biology II  
 \_\_\_\_\_ BIOL 2124 Introduction to Microbiology  
 \_\_\_\_\_ or BIOL 3154 Principles of Microbiology  
 \_\_\_\_\_ CIS 1013 Computer Info Systems  
**B. Guided Electives (17 hours minimum)**  
 1. Must select at least one lower division course.  
 \_\_\_\_\_ AGRC 1124 Introduction to Animal Science (DVM)  
 \_\_\_\_\_ BIOL 2034 Human Anatomy (DO,MD,OD,PD)  
 \_\_\_\_\_ BIOL 2134 Human Physiology (OD,PD)  
 \_\_\_\_\_ BIOL 2154 Zoology (DO,DVM,MD)

2. Substitutions can be made for other professional  
 health programs. See abbreviations listed in footer.  
 \_\_\_\_\_ ANIM 3653 Applied Nutrition (DVM)  
 \_\_\_\_\_ BIOL 3014 Genetics (DVM, MD)  
 \_\_\_\_\_ BIOL 3093 Immunology  
 \_\_\_\_\_ BIOL 3174 Molecular Cell Biology (DO, MD)  
 \_\_\_\_\_ BIOL 4004 Physiology (DO)  
 \_\_\_\_\_ CHEM 3334 Chemistry of Water & Wastewater  
 \_\_\_\_\_ CHEM 3343 Organic Analysis  
 \_\_\_\_\_ CHEM 4025 Instrumental Analysis  
 \_\_\_\_\_ CHEM 4332 Advanced Inorganic Lab  
 \_\_\_\_\_ CHEM 4334 Advanced Inorganic  
 \_\_\_\_\_ CHEM 4351 Physical Chemistry Lab I  
 \_\_\_\_\_ CHEM 4353 Physical Chemistry I  
 \_\_\_\_\_ CHEM 4361 Physical Chemistry Lab II  
 \_\_\_\_\_ CHEM 4363 Physical Chemistry II  
 \_\_\_\_\_ CHEM 4481-3 Advanced Topics in Chemistry  
 \_\_\_\_\_ CHEM 4491-3 Special Problems Research\*  
 \_\_\_\_\_ STAT 3003 Introduction to Statistics (PD, OD)  
 \*Only three hours of CHEM4491-3 may be counted  
 toward completion of the elective hours for this option.