

**CHEMISTRY - TEACHING MAJOR**

Bachelor of Arts Degree

126 Semester Hours Minimum

Name \_\_\_\_\_

Campus Address \_\_\_\_\_ Phone \_\_\_\_\_

Second Major \_\_\_\_\_ Minor 1 \_\_\_\_\_ Minor 2 \_\_\_\_\_

Transferred \_\_\_\_\_ credits from \_\_\_\_\_ Advisor \_\_\_\_\_

Chemistry Courses

860:044 General Chem I 4 \_\_\_\_\_

860:048 Gen Chem II 4 \_\_\_\_\_

**or**

860:070 Gen Chem I-II 5 \_\_\_\_\_

860:120 Organic Chem I 3 \_\_\_\_\_

860:121 Organic Chem Lab I 2 \_\_\_\_\_

860:123 Organic Chem II 3 \_\_\_\_\_

860:132 Quantitative Analysis 4 \_\_\_\_\_

860:140 Physical Chem I 3 \_\_\_\_\_

**or**

860:141 Physical Chem 3 \_\_\_\_\_

**or**

860:142 Principles of Physical Chem 3 \_\_\_\_\_

Total chemistry 20 - 23 hours

Physics Courses

880:054 General Physics I 4 \_\_\_\_\_

880:056 General Physics II 4 \_\_\_\_\_

(880:130 and 880:131 Physics I & II may be substituted)

Methods Courses

820:190 Orientation to Sci Teaching 2 \_\_\_\_\_

820:196 Current Technologies in Sci Teaching 1 \_\_\_\_\_

860:193 Current Curricula in Chem 2 \_\_\_\_\_

Chemistry Electives

Courses beyond General Chem 7-10 \_\_\_\_\_

**Total for the Major: 43 hours**

Teaching majors must also complete the UNI Professional Education Requirements, 32 credit hours, which includes 12 hours of student teaching. Consult the university bulletin for details on the professional course requirements.

General Education (43 hours minimum)

Category I: Civilization & Cultures

\_\_\_\_\_ A. Humanities I 4 Hrs

\_\_\_\_\_ Humanities II 4 Hrs

\_\_\_\_\_ B. Non-Western Cultures  
\_\_\_\_\_ 3 Hrs

Category II: Fine Arts, Literature, Philosophy, and Religion

\_\_\_\_\_ A. Fine Arts  
\_\_\_\_\_ 3 Hrs

\_\_\_\_\_ B. Literature, Philosophy, or Religion  
\_\_\_\_\_ 3 Hrs

Category III: Natural Science & Technology

X A. Sphere I Satisfied (860:044 or 070)  
4 Hrs

\_\_\_\_\_ B. Sphere II  
\_\_\_\_\_ 3 or 4 Hrs

\_\_\_\_\_ C. Capstone 2 Hrs

Category IV: Social Science (9 hrs total)

\_\_\_\_\_ Group A  
\_\_\_\_\_ 3-6 Hrs

\_\_\_\_\_ Group B  
\_\_\_\_\_ 3-6 Hrs

\_\_\_\_\_ Group C  
\_\_\_\_\_ 0-3 Hrs

Category V: Communication Essentials

\_\_\_\_\_ A. Writing and Reading  
\_\_\_\_\_ 3 Hrs

\_\_\_\_\_ B. Speaking and Listening  
\_\_\_\_\_ 3 Hrs

\_\_\_\_\_ C. Quant Techniques & Understanding  
\_\_\_\_\_ 3 Hrs

Category VI: Personal Wellness

\_\_\_\_\_ 440:010 Personal Wellness 3 Hrs

Major in Chemistry -Teaching  
SUGGESTED SCHEDULE

FRESHMEN YEAR

<u>FALL</u>		<u>SPRING</u>	
860:044 General Chemistry I	4 cr	860:048 General Chemistry II	4
800:040 Intermediate Algebra*	4	800:046 Elementary Analysis	4
880:054 General Physics I**	4	880:056 General Physics II**	4
General Education	<u>5</u>	General Education	<u>5</u>
	17		17

ALTERNATE 1ST YEAR FOR WELL-PREPARED FRESHMEN (Department approval required)

860:070 General Chemistry I-II	5	860:132 Quantitative Analysis	4
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SOPHOMORE YEAR

<u>FALL</u>		<u>SPRING</u>	
860:120 Organic Chemistry I	3	860:123 Organic Chemistry II	3
860:121 Organic Chemistry Lab I	2	860:132 Quantitative Analysis	4
800:060 Calculus I or Elective	4	Professional Ed/Level I***	4
General Education	<u>8</u>	General Education	<u>7</u>
	17		18

JUNIOR YEAR

<u>FALL</u>		<u>SPRING</u>	
860:142 Principles of P Chem***	3	220:150 Mainstreaming the Exceptional	
Professional Ed/Level II	6	Child	2
240:020 Educational Media	2	Chemistry Elective****	4
Gen Ed/Electives	<u>5</u>	Gen Ed/Electives	<u>10</u>
	16		16

SENIOR YEAR

<u>FALL</u>		<u>SPRING</u>	
820:190 Orientation Science Tchg	2	280:135 Student Teaching	12
820:196 Current Technologies	1	280:070 Human Relations	<u>3</u>
860:193 Current Curricula in Chem	2		15
Elective in Chemistry	3		
Gen Ed/Electives	<u>8</u>		
	16		

\* The highest-level math course for which the student is prepared should be chosen. Students who have completed two years of high school algebra should choose 800:046.

\*\* 880:130 and 880:131 may be substituted

\*\*\* See the University Bulletin for details on the professional education courses.

\*\*\*\* 860:142 is offered only in alternate years. 860:140 or 860:141 may be substituted.

\*\*\*\*\* Seven hours minimum of chemistry electives required. Appropriate courses are:

860:125 Organic Chemistry Laboratory II (2hrs)

860:144 Inorganic Chemistry I (3 hrs)

860:136 Applied Instrumental Analysis (4 hrs)

860:154 Biochemistry I (4 hrs)

860:138 Environmental Chemistry (3 hrs)

Total Hours

General Education	43 hours
Major	43 hours
Professional Education	32 hours
University Electives/Minor	<u>12 hours</u>

130 hours minimum

ADVISING NOTE: The above program represents one example of a variety of alternative schedules for completing the Chemistry -Teaching Major. Requirements are subject to change.