

**1,2BS Chemistry/General Science Education Grades 5-12****Suggested Plan of Study**

Department of Chemistry: Phone 320-308-3031 E-mail chemistry@stcloudstate.edu

**Chemistry Teaching Advisor:**

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<b>First Semester</b>	<b>Second Semester</b>
<sup>3</sup> Math 211 (3 cr.) <sup>4</sup> Chemistry 210 (4 cr.) Biology 151 (4 cr.) CMST 192 (3 cr.) Racial Issues Gen. Ed. (3) <b>Total semester credits = 17</b>	Math 212 (3 cr.) Chemistry 211 (4 cr.) Biology 152 (4 cr.) ENGL 191 (4 cr.) <b>Total semester credits = 15</b>
<b>Third Semester</b>	<b>Fourth Semester</b>
Physics 231 (4 cr.) <sup>5</sup> Chemistry 310 (5 cr.) CEEP 262 (3 cr.) <sup>6</sup> ED 300 (3 cr.) PESS 122 (1 cr.) <b>Total semester credits = 16</b>	Physics 232 (4 cr.) Chemistry 311 (4 cr.) HLTH 301 (2 cr.) PHIL 194 (3 cr.) Diversity Gen. Ed. (3) <b>Total semester credits = 16</b>
<b>Fifth Semester</b>	<b>Sixth Semester</b>
Astronomy 106 (3 cr.) Chemistry 350 (4 cr.) Chemistry 420 (4 cr.) 'Democratic Citizenship' 195 (3 cr.) Diversity Gen. Ed. (3 cr.) <b>Total semester credits = 17</b>	Earth & Atmospheric Science 205 (5 cr.) <sup>7</sup> Science 420 (4 cr.) HURL 497/498 (4 cr.) CEEP 361 (3 cr.) Chemistry 489 (1 cr.) <b>Total semester credits = 17</b>
<b>Seventh Semester</b>	<b>Eighth Semester</b>
<sup>8</sup> Science 430 (4 cr.) ENGL/ED 460 (2 cr.) SPED 425 (2 cr.) <sup>9</sup> ED 421/431/441 (6 cr.) <sup>10</sup> IM 422 (2 cr.) <b>Total semester credits = 16</b>	<sup>11</sup> Science 440 (3 cr.) ED 466 (9 cr.) <b>Total semester credits = 12</b>

**Notes:**

<sup>1</sup>This program will meet licensure requirements for beginning teachers of any science at the 5-8 grade levels and chemistry at the 9-12 grade levels. This schedule requires carrying an above average number of credits most semesters (16 or 17). Taking some courses during summer sessions is recommended to ensure that your grade-point average is high enough (2.5) for admission to the professional education program. Consult with departments after February 1 to determine expected summer course offerings.

<sup>2</sup>The General Education Distribution requirements are met as follows: Area A ('short' area): two diversity courses (6 cr. total); Area B ('long' area): all waived/double counted (9 cr. total); Area C ('long' area): racial issues course, CEEP 262, and waiver from ED (9 cr. total).

<sup>3</sup>Contact the Math Department at 320-308-3001 regarding placement into MATH 211. Note that MATH 211 is an acceptable substitute for MATH 193 in the General Education Core requirements.

<sup>4</sup>The prerequisites for Chemistry 210 are high school advanced algebra (or MATH 072), high school chemistry, and one of the following: passing score on the Chemistry Placement Exam OR grade of C or better CHEM 160. (prior to Fall 2008 in was Chem 140). Contact the Chemistry Department at 320-308-3031 or refer to the department's web page ([www.stcloudstate.edu/chemistry](http://www.stcloudstate.edu/chemistry)) for information and scheduling of the Chemistry Placement Exam. Students scoring 35 or greater may enroll in CHEM 210. Students scoring between 30-34 may enroll in CHEM 210 concurrently with CHEM 110, a one-credit booster course that runs the first five weeks of the semester. Students scoring below 30 must register for CHEM 160 and obtain a grade of C or better before enrolling in CHEM 210.

<sup>5</sup>Upper level chemistry courses (except CHEM 350) are not offered every semester. Odd semesters above correspond to fall offerings, and even semesters correspond to spring offerings.

<sup>6</sup>Advising and admission to the professional education sequence is done by the Department of Teacher Development. After admission to the major department (Chemistry), students should immediately seek an advisor in the Dept. of Teacher Development. Completion of the PPST and admission to the major are required before a student can enroll in any of these courses except ED 300.

<sup>7</sup>Must complete ED 300 prior to enrolling in SCI 420.

<sup>8</sup>Registration should be concurrent with Professional Practice Semester (ED 421/431/441, ENGL/ED 460, SPED 425).

<sup>9</sup>CPR/first aid certification required prior to ED 421/431/441.

<sup>10</sup>A computer competency test must be passed to enroll in IM 422 (see Department of Information Media).

<sup>11</sup>Registration must be concurrent with Student Teaching (ED 466).