

## BS Chemistry (Biochemistry): 74 credits in Major

### Suggested Plan of Study

Department of Chemistry: Phone 320-308-3031 E-mail [chemistry@stcloudstate.edu](mailto:chemistry@stcloudstate.edu)

#### Chemistry Major Advisors (Transfer advisors are underlined):

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First Semester	Second Semester
<sup>1</sup> Chemistry 210 (4 cr.) Biology 151 (4 cr.) <sup>2</sup> Math 211 (3 cr.) <sup>3</sup> ENGL 191 (4 cr.) or other Core Gen. Ed. Total semester credits = 15	Chemistry 211 (4 cr.) Biology 152 (4 cr.) Math 212 (3 cr.) <sup>3</sup> Distribution Area A or C Racial Issues course (3 cr.) <sup>3</sup> PESS 122 (1 cr.) Total semester credits = 15
Third Semester	Fourth Semester
<sup>4</sup> Chemistry 310 (5 cr.) <sup>5</sup> Chemistry 350 (4 cr.) Physics 231 (4 cr.) <sup>3</sup> Core Gen. Ed. (3 cr.) Total semester credits = 16	Chemistry 311 (4 cr.) Biology 262 (4 cr.) Physics 232 (4 cr.) <sup>3</sup> Distribution Area A or C Diversity course (3 cr.) Total semester credits = 15
Fifth Semester	Sixth Semester
<sup>6</sup> Chemistry 420 (4 cr.) Biology 360 (4 cr.) Chemistry 480 (4 cr.) <sup>3</sup> Distribution Area A or C Diversity course (3 cr.) <sup>7</sup> Total semester credits = 15 or 11	OR: <sup>6</sup> Chemistry 482 (4 cr.) Chemistry 391 (1 cr.) Chemistry 481 (4 cr.) <sup>3</sup> Core Gen. Ed. (3 cr.) <sup>3</sup> Core Gen. Ed. (3 cr.) <sup>7</sup> Total semester credits = 15 or 11
Seventh Semester	Eighth Semester
Biology 362 (4 cr.) <sup>3</sup> Distribution Area A or C (3 cr.) <sup>3</sup> Distribution Area A or C (3 cr.) <sup>7</sup> Total semester credits = 10 ++	Chemistry 450 (4 cr.) Chemistry 491 (2 cr.) <sup>7</sup> Total semester credits = 6 ++

#### Notes:

<sup>1</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 in 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>2</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>3</sup>The general education program must be satisfied by completion of ENGL 191, CMST 192, PHIL 194, Democratic Citizenship 195, three courses in Area A and two in Area C (or vice-versa). The Area A and C courses must include 3 approved Diversity courses, one of which must be an approved Racial Issues course. All students must complete PESS 122.

<sup>4</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>5</sup>CHEM 350 is normally offered fall and spring semester.

<sup>6</sup>Either CHEM 420 or CHEM 482 must be completed.

<sup>7</sup>A minimum of 120 credits must be earned to graduate. It may be possible to complete a second major. At least 5 additional credits must be taken at the 300-400 level to meet the 45 upper level credit requirement.

NOTE: The following courses are normally offered in the summer: CHEM 160, 210, 211; PHYS 231, 232. Consult departments after February 1 to determine expected summer course offerings.