

BS Chemistry (Chemistry ACS Approved): 72 credits in Major**Suggested Plan of Study**

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

Chemistry Major Advisors

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Transfer Advisors

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First Semester

¹Chemistry 210 (4 cr.)
²Math 221 (5 cr.)
³Liberal Education Goal Area (4-7 cr.)
Total semester credits = 13-16

Second Semester

Chemistry 211 (4 cr.)
 Math 222 (4 cr.)
³Liberal Education Goal Area (6 cr.)
³PESS 122 (1 cr.)
Total semester credits = 15

Third Semester

⁴Chemistry 310 (5 cr.)
 Chemistry 350 (4 cr.)
 Physics 234 (5 cr.)
Total semester credits = 14

Fourth Semester

Chemistry 311 (4 cr.)
 Physics 235 (5 cr.)
³Liberal Education Goal Area (6 cr.)
Total semester credits = 15

Fifth Semester

Chemistry 420 (4 cr.)
 Chemistry 422 (1 cr.)
 Chemistry 480 (4 cr.)
³Liberal Education Goal Area (4-6 cr.)
Total semester credits = 13-15

Sixth Semester

Chemistry 421 (4 cr.)
 Chemistry 423 (1 cr.)
 Chemistry 450 (4 cr.)
 Chemistry 391 (1 cr.)
³Liberal Education Goal Area (3 cr.)
⁵**Total semester credits = 13 ++**

Seventh Semester

Chemistry 430 (4 cr.)
⁶Chemistry 489 or 444 (1 cr.)
⁷Chemistry Electives (at least 3 cr.)
⁶**Total semester credits = 8 ++**

Eighth Semester

Chemistry 431 (2 cr.)
⁷Chemistry 489 or 444 (1 cr.)
 Chemistry 491 (2 cr.)
⁶**Total semester credits = 5 ++**

Notes:

¹The prereqs for Chem 210: Must have an ACT math subscore of 23 or higher; or completed CHEM 160 with a C or better; or have completed Math 072 with a C- or better; or a score of 50 or higher on the ACCUPLACER **CLM** exam (College Level Math) or a score of 16 or higher on the Calculus Readiness test. Higher level acceptable MATH classes: Math 112, 113, 115, 211, 212, 221, 222 and 325.

²Contact the Math Department at 320-308-3001 regarding placement into MATH 221. Note that MATH 221 is an acceptable substitute for MATH 193 in the Liberal Education Program.

³The Liberal Education Program (LEP) incorporates the ten goals of the Minnesota Transfer Curriculum. LEP must be satisfied by completion of all ten goals and achieve a total of at least 40 credits. Students must complete 3 diversity courses. The diversity courses must come from 3 different rubrics or academic areas. One diversity course must be an approved Racial Issues course. See Goal 7 for approved Racial Issues courses. Completion of major courses allows for a waiver of 9 credits from goal area 3 and 5 credits from goal area 4. Note that there are 1 and 2 credit classes in some goal areas. All students must complete PESS 122.

⁴Upper level chemistry courses are not offered every semester. Odd semesters above correspond to fall offerings, and even semesters correspond to spring offerings.

⁵A minimum of 120 credits must be earned to graduate. The 45 upper level credit requirement is completely met by completion of this major.

⁶A minimum of 2 credits of undergraduate research (CHEM 489) or pre-approved internship (CHEM 444) are required.

⁷Semester(s) will vary depending on course(s) chosen. Possible electives are CHEM 440, 444, 452, 453, 460-469, 481, 482, 489, 490.

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