

BS Chemistry (ACS Approved Chemical-Physics Option): 78 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 Semester¹Chemistry 210 (4 cr.)²Math 221 (5 cr.)

Physics 234 (5 cr.)

³PESS 122 (1 cr.)**Total semester credits = 15****Second Semester**

Chemistry 211 (4 cr.)

Math 222 (4 cr.)

Physics 235 (5 cr.)

³Liberal Education Goal Area (3 cr.)**Total semester credits = 16****Third Semester**⁴Chemistry 310 (5 cr.)

Chemistry 350 (4 cr.)

Physics 328 (3 cr.)

³Liberal Education Goal Area (3 cr.)**Total semester credits = 15****Fourth Semester**

Chemistry 311 (4 cr.)

Physics 329 (3 cr.)

³Liberal Education Goal Area (8 cr.)**Total semester credits = 15****Fifth Semester**

Chemistry 420 (4 cr.)

Chemistry 422 (1 cr.)

Chemistry 480 (4 cr.)

³Liberal Education Goal Area (6 cr.)**Total semester credits = 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.)**Total semester credits = 13****Seventh Semester**

Chemistry 430 (4 cr.)

⁵Chemistry 489 or 444 (1 cr.)

Physics 346 (3 cr.)

³Liberal Education Goal Area (3 cr.)**⁶Total semester credits = 11 ++****Eighth Semester**

Chemistry 431 (2 cr.)

⁵Chemistry 489 or 444 (1 cr.)

Chemistry 491 (2 cr.)

⁶Total 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. MATH 221 and 222 also allow for a waiver of goal area 4.

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

⁶A minimum of 120 credits must be earned to graduate. The 45 upper level credit requirement is completely met by completion of this major.

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.