

BS Chemistry (ACS Approved Biochemistry Option): 84 credits in Major**Suggested Plan of Study**Department of Chemistry & Biochemistry: Phone 320-308-3031 E-mail: chemistry@stcloudstate.edu**Chemistry Major Advisors**

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Second Semester	
¹ Chemistry 210 (4 cr.) ² Math 221 (4 cr.) Biology 151 (4 cr.) ³ Liberal Education Goal Area (3-4 cr.) Total semester credits = 15-16	Chemistry 211 (4 cr.) Math 222 (4 cr.) Biology 152 (4 cr.) ³ Liberal Education Goal Area (3-4 cr.) Total semester credits = 15-16
Third Semester	
⁴ Chemistry 310 (5 cr.) Chemistry 350 (4 cr.) Physics 234 (5 cr.) Total semester credits = 14	Chemistry 311 (4 cr.) Biology 262 (4 cr.) Physics 235 (5 cr.) ³ Liberal Education Goal Area (3 cr.) Total semester credits = 16
Fifth Semester	
Chemistry 420 (4 cr.) Chemistry 422 (1 cr.) Chemistry 480 (4 cr.) Biology 360 (4 cr.) ³ Liberal Education Goal Area (3 cr.) Total semester credits = 16	Chemistry 421 (4 cr.) Chemistry 423 (1 cr.) Chemistry 391 (1 cr.) Chemistry 481 (4 cr.) ³ Liberal Education Goal Area (3 cr.) Total semester credits = 13
Seventh Semester	
Chemistry 432 (5 cr.) ³ Liberal Education Goal Area (9 cr.) Total semester credits = 14	Chemistry 433 or 450 or 455 (4 cr.) Chemistry 491 (1 cr.) ³ Liberal Education Goal Area (3 cr.) ⁵ Total semester credits = 8++
Fourth Semester	
Sixth Semester	
Eighth Semester	

Notes:

¹ The prereqs for Chem 210: Must have completed CHEM 160 with a C or better; **or** have an ACT math subscore of 22 or higher; **or** a SCSU Multiple Measures ACT Middle score of 22 or higher; **or** a score of 60 or higher on Intermediate Alg Placement Test-CAT; **or** a score of 60 or higher on SCSU Multiple Measures Intermediate Algebra; **or** a score of 50 or higher on the ACCUPLACER **CLM** exam (College Level Math); **or** a score of 245 or better on the Advanced Algebra and Functions (AAF) ACCUPLACER exam; **or** a score of 1158 or higher Minnesota Comprehensive Assessment (MCA's); **or** a score of 530 or higher on SAT Math; **or** have completed MATH 072 with a C- or better. Higher level acceptable MATH classes in lieu of MATH 072: MATH 112, 113, 115, 196, 211, 212, 221 and 222.

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.

³ The 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. Each student must complete three courses designated as Diversity courses. Students may take no more than one course from any one department. It is strongly recommended and encouraged that one Diversity course be an approved Racial Issues (RIS) 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 4 credits from goal area 4. Note that there are 1 and 2 credit classes in some goal areas.

⁴Upper level chemistry courses are not always 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.

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

2/7/20