

Bachelor of Science in Chemistry (Concentration in Subdiscipline) (BIC)

A Suggested Sequence of Required Courses (2014-2015 Catalog)

F r e s h m a n Y e a r

Fall	Spring
_____ 0 Chapel (CHA 1088)	_____ 0 Chapel (CHA 1088)
_____ 2 BIC 1212 Examined Life I	_____ 4 PHY 1420 Physics I
_____ 3 BIC 1314 World Cultures I	_____ 3 BIC 1324 World Cultures II
_____ 4 BIC 1413 Rhetoric I	_____ 3 BIC 1323 Rhetoric II
_____ 3 MTH 1321 Calculus I	_____ 3 MTH 1322 Calculus II
_____ 4 CHE 1301/1101 Chemistry I (see reverse)	_____ 4 CHE 1302/1102 Chemistry II (see reverse)
Total: 16	Total: 17

S o p h o m o r e Y e a r

Fall	Spring
_____ 3 BIC 2330 Social World I	_____ 3 BIC 2340 Social World II
_____ 3 BIC 2334 World Cultures III	_____ 3 BIC 2344 World Cultures IV
_____ 4 PHY 1430 Physics II	_____ 3 MTH 2321 Calculus III
_____ 3 CHE 3331 Organic Chemistry I	_____ 2 CHE 3238 Organic Chemistry Lab
_____ 2 CHE 2216 Lab Measurements	_____ 3 CHE 3332 Organic Chemistry II
_____ 1 Lifetime Fitness	_____ 1 Lifetime Fitness
Total: 16	Total: 15

J u n i o r Y e a r

Fall	Spring
_____ 4 Foreign Language 1401 (see below/reverse)	_____ 4 Foreign Language 1402 (see below/reverse)
_____ 3 CHE 4321 Physical Chemistry I	_____ 3 BIC 3358 Biblical Heritage/Ethics
_____ 1 CHE 4127 Physical Chem Lab I	_____ 2 CHE 4000 level lab
_____ 3 Elective	_____ 3 CHE 4000 level lecture
_____ 3 Elective	_____ 3 Elective
Total: 14	Total: 15

S e n i o r Y e a r

Fall	Spring
_____ 3 Foreign Language 2310 (see below/reverse)	_____ 3 Foreign Language 2320 (see below/reverse)
_____ 3 CHE 4000 level lecture	_____ 2 CHE 4000 level lab
_____ 3 CHE 4000 level lecture	_____ 3 CHE 4000 level lecture
_____ 1 CHE 4151 Undergrad Seminar I	_____ 0 CHE 4001 Exit Examination
_____ 3 Elective	_____ 3 Advanced Elective
_____ 3 Advanced Elective	_____ 3-4 Elective (variable due to hours)
Total: 16	Total: 14-15

*All students must graduate with a minimum of 124 hours,
36 of which must be at the 3000/4000 level.*

- CHE, MTH, and PHY courses in the first two years must not be deferred, except that CHE 2216 may be delayed one semester.
- MTH 2321 must be completed by end of sophomore year.
- PHY 1430 must be complete by end of sophomore year.
- CHE 4321 and 4127 must be taken in fall of junior year. Prerequisites are MTH 2321 and PHY 1430.
- 4000 level chemistry courses, except 4341, are taught only once per year, in the semesters indicated.
- CHE 4000 Level: Students must complete a minimum of 15 semester hours of 4000 level chemistry courses, including a minimum of 4 semester hours of laboratory (with the exception of CHE 4327). A maximum of 3 semester hours of CHE 4V98 may count toward this requirement.
- This degree plan is not certified by the American Chemical Society.
- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.
- For more information, see the undergraduate catalog.

*Because of the number of electives, there is enough room for a minor with this major.

Please see reverse side for important information on general requirements.

Bachelor of Science

Notes about General Requirements:

- Course selection is subject to availability within each semester.
- Please keep in mind that this is only a suggested sequence. Actual sequence will vary according to possible second major, minor, other program of study (including pre-health), and individual circumstances (ex., transfer credit, dual credit, and credit by exam).
- In order to complete your degree, you must fulfill all requirements in your major and general requirements for the Bachelor of Science.
- To complete a double major, you may not count any courses toward both majors.
- For more specific information on general requirements, see your undergraduate catalog.
- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

Foreign Language:

- **Option A:** One modern language through 2320 level:
Arabic, Chinese, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, and Swahili
- **Option B:** One classical language through 2320 level or two classical through 1302 level:
Latin, Greek, Hebrew (If available, Akkadian, Aramaic, Syriac, and/or Ugaritic may be used)
*Chemistry majors must take a modern foreign language; German or Russian are strongly recommended.

Math & Science: You must complete a minimum of 34 hours of math and science courses. See the undergraduate catalog for a more detailed explanation or refer to your audit for specific science/math courses that may be required by your major.

Biology/Chemistry Prerequisite Policies

Biology- In order to register for BIO 1305 and 1306, students must have either a satisfactory math score on the ACT or SAT OR have completed MTH 1320 (Pre-Calculus) with a grade of B or better.

Chemistry- In order to register for CHE 1301, students must have either a satisfactory math score on the ACT or SAT or have a minimum grade of B in CHE 1300 AND a minimum grade of B in either MTH 1320 (Pre-Calculus) or MTH 1321 (Calculus)