

The Professional Chemistry Major Core Curriculum

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This curriculum is approved by the American Chemical Society. With this degree, you are more likely to be hired as a practicing chemist or to go on to professional school upon graduation. See the undergraduate catalog for suggestions about how to fit general requirements courses into this schedule. No minor is required with this curriculum. It has a choice of two tracks (a "Materials" track and a "Biomolecular" track) which differ starting in the junior year. *CHEM 4400 and 4410 are offered alternate springs; either meets the requirements. If your preference of these two courses is not offered junior year, you may take the other course, or else take your preferred course during your senior year.

Freshman Year

Fall

CHEM 1110/1111 (4)

MATH 1730 (4)

BIOL 1110/1111 (4)

Spring

CHEM 1120/1121 (4)

MATH 1910 (4)

BIOL 1120/1121 (4)

Sophomore Year

Fall

CHEM 3010/3011 (4)

CHEM 2230/2231 (5)

PHYS 2110/2111 or

PHYS 2010/2011 (4)

Spring

CHEM 3020/3021 (4)

MATH 1920 (4)

PHYS 2120/2121 or

PHYS 2020/2021 (4)

Junior Year, Materials Science Track

Fall

CHEM 4330/4331 (4)

CHEM 3530 (4)

CSCI (approved by adviser) CHEM 3000 (1)

Spring

CHEM 4360 (5)

CHEM 4400* or 4410* (3)

Senior Year, Materials Science Track

Fall

CHEM lab elective(s) (2)

CHEM elective (3)

Spring

Junior Year, Biochemistry Track

Fall

Spring

CSCI (approved by adviser) CHEM 3000 (1)
CHEM 4500 (3) CHEM 4400* or 4410* (3)
 CHEM 4510 (3)
 CHEM 4530(2)

Senior Year, Biochemistry Track

Fall

CHEM 4330/4331 (4)
CHEM 3880 (2)

Spring

CHEM 4360 (5)

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Remember that this degree is recommended for those who are double majoring or have strong emphasis on another subject area. Notice that core courses listed here are fewer than those in the professional major, but a minor is required (the professional major does not require a minor). Fill in those empty spaces with courses from your other major specialty, or take more upper division chemistry. See the undergraduate catalog for suggestions about how to fit general requirements courses into this schedule.

Freshman Year

Fall

CHEM 1110/1111 (4)
MATH 1730 (4)
BIOL 1110/1111 (4)

Spring

CHEM 1120/1121 (4)
MATH 1910 (4)
BIOL 1120/1121(4)

Sophomore Year

Fall

CHEM 2230/2231 (5)
CHEM 3010/3011 (4)
PHYS 2010/2011 (4)

Spring

CHEM 3020/3021 (4)
PHYS 2020/2021 (4)

Junior Year

Fall

Spring

CHEM 4330/4331 (4)

CHEM 4340/4341 (4)

Senior Year

Fall

CHEM elective (3 or 4)

Spring

CHEM elective (4 or 3)