BA in Chemistry

2018 - 2019 Catalog
Total Credit Hours Required: 120
Advanced Credit Hours Required: 36 (3000 level or above)

Required Chemistry Courses

General Chemistry
___ 1341 General Chemistry I and Lab (Prereq: CHEM 1341/1181)
___ 1342 General Chemistry II and Lab (Prereq: CHEM 1341/1181)

Organic Chemistry
___ 2321 Organic Chemistry I (Prereq: CHEM 1342/1182)
___ 2334 Synthesis and Analysis Lab I (Coreq: CHEM 2321/2335)
___ 2322 Organic Chemistry II (Prereq: CHEM 2321/2343)
___ 2144 Synthesis and Analysis Lab II (Coreq: CHEM 2322)

Quantitative Chemistry
___ 2335 Quantitative Chemistry (Prereq: CHEM 1342/1182, Precal)

Physical Chemistry
___ 3315 Biophysical Chemistry I (Prereq: CHEM 2335, 8 hours physics, MATH 2425)
___ 3175 Biophysical Chemistry I Lab (Coreq: CHEM 3315)

Inorganic Chemistry
___ 3317 Inorganic Chemistry I (Pre/Coreq: CHEM 2322)

Biochemistry
___ 4311 Biochemistry I (Prereq: CHEM 2322)

Other Chemistry
___ 4101 Seminar in Chemistry

Additional Chemistry
___ 2-3 hours from:
   3307 Intro to Polymer Chemistry (Prereq: CHEM 2322)
   4242 Lab Techniques in Biochemistry (Prereq: CHEM 4311)
   4312 General Biochemistry II (Prereq: CHEM 4311)
   4318 Inorganic Chemistry II (Prereq: CHEM 2322)
   4346 Advanced Synthetic Methods
      (Prereq: 2322, 2144, 3317/4318)

Other Required Courses

English
___ 1301 Critical Thinking, Reading, and Writing I
___ 1302 Critical Thinking, Reading, and Writing II

Language, Philosophy, and Culture
___ 3 hours of an approved course (see Catalog)

Social and Behavioral Sciences
___ 3 hours of an approved course (see Catalog)

Creative Arts
___ 3 hours of an approved course (see Catalog)

Political Science
___ 2311 Government of the United States
___ 2312 State and Local Government

History
___ 1311 History of the United States (→1865)
___ 1312 History of the United States (1865→)

Foundational Component Area
___ 3 hours of an approved course (see Catalog)

Mathematics
___ 1421 Precalculus
___ 1426 Calculus I
___ 2425 Calculus II

Physics
___ 1441 General College Physics I (Prereq: hs algebra/trig)
___ 1442 General College Physics II  (Prereq: PHYS 1441)

Other Natural Science
___ 6-8 hours of biology or 6-8 hours of geology

Modern and Classical Languages
___ 14 hours in a single modern/classical language
   or
___ 8 hours in a single language and 6 advanced hours
   from one Liberal Arts Area Cluster (per COS list)

Freshman Requirement
___ UNIV 1131 Freshman Interest Group

Electives
___ Sufficient to reach 120 total credit hours
___ Sufficient to reach 36 advanced hours

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Math, Physics, and Chemistry Pre- and Corequisites Flow Chart (grade of “C” or better is required to meet prerequisites)

**Suggested Course Sequence**

**First Year:**
- **Fall – 15/16 credit hours**
  - CHEM 1341/1181
  - MATH 1421
  - ENGL 1301
  - BIOL 1441 or GEOL 1301
  - UNIV 1131
- **Spring – 14/15 credit hours**
  - CHEM 1342 /1182
  - MATH 1426
  - ENGL 1302
  - BIOL 1442 or GEOL 1302

**Second Year:**
- **Fall – 17 credit hours**
  - MATH 2425
  - PHYS 1441
  - CHEM 2321, 2343 and 2335
- **Spring – 15 credit hours**
  - Modern/Classical Language
  - PHYS 1442
  - CHEM 2322 and 2144

**Third Year:**
- **Fall – 17 credit hours**
  - Modern/Classical Language
  - CHEM 3315 and 3175
  - Advanced Elective
  - POLS 2311
  - Social and Behavioral Sciences
- **Spring – 15 credit hours**
  - Modern/Classical Language
  - Advanced Elective
  - CHEM 4311
  - POLS 2312

**Fourth Year:**
- **Fall – 13 credit hours**
  - CHEM 4101
  - CHEM 3317
  - HIST 1311
  - Advanced Electives
  - Modern/Classical Language
- **Spring – 14 credit hours**
  - CHEM from approved list (2-3 hrs)
  - HIST 1312

*Minimum GPA Required: 2.25 in CHEM, 2.25 in COS, and 2.25 Overall.*

**NOTE:** For a thorough explanation of degree requirements please consult the Undergraduate Catalog.