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Chemistry, B.S.



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Degree Awarded: Bachelor of Science

Total Credit Hours: 120-124

Career Opportunities: Textile, cosmetic, petroleum, glass, paper or plastics industries, plant and animal breeders and growers, universities.

General Education Core Curriculum

[Core Curriculum](#)

Freshman Year

Required Courses

- UNIV 100 – First Year Seminar **3 Credit(s)**
- UNIV 200 – Information Literacy **2 Credit(s)**
- CHEM 107 – General Chemistry I **3 Credit(s)**
- CHEM 108 – General Chemistry II **3 Credit(s)**
- CHEM 115 – General Chemistry Laboratory **2 Credit(s)**
- ENGL 101 – Introduction to Academic Writing **3 Credit(s)**
- ENGL 102 – Writing and Research About Culture **3 Credit(s)**
- MATH 143 – Pre-Calculus Algebra and Trigonometry **3 Credit(s)** *

Note:

* Eligibility for MATH 143 based on ACT score. Students who are not eligible need to take both MATH 109 and MATH 110 as substitution courses. Qualified students should take MATH 270.

Electives

Elective (3 Credits)

Minimum of 45 credit hours of 300 and 400 level courses must be taken.

Choose from:

- CHEM 311 – Physical Chemistry Laboratory I **2 Credit(s)**
- CHEM 312 – Physical Chemistry Laboratory II **2 Credit(s)**
- CHEM 317 – Biochemistry I **3 Credit(s)**
- CHEM 430G – Instrumental Analysis **5 Credit(s)**
- CHEM 451G – Inorganic Chemistry **3 Credit(s)**
- CHEM 452 – Inorganic Chemistry Laboratory **2 Credit(s)**
- CHEM Elective 300/400-Level **3 Credit(s)**.
- MATH 301 – Calculus II **4 Credit(s)**
- MATH 302 – Calculus III **4 Credit(s)**

Fine Arts (3 Credits)

Choose from the General Education Core list of Fine Arts courses.

History (3 Credits)

Choose from the General Education Core list of History courses.

Total: 30 Credits

Sophomore Year

Required Courses

- CHEM 221 – Analytical Chemistry **3 Credit(s)**
 - CHEM 222 – Analytical Chemistry Laboratory **2 Credit(s)**
 - CHEM 231 – Organic Chemistry I **3 Credit(s)**
 - CHEM 233 – Organic Chemistry Laboratory I **1 Credit(s)**
 - CHEM 251 – Descriptive Inorganic Chemistry **3 Credit(s)**
 - CHEM 252 – Inorganic Chemistry Laboratory I **2 Credit(s)**
-
- MATH 250 – Survey of Calculus **3 Credit(s)** or
 - MATH 270 – Calculus I **4 Credit(s)**
-
- PHYS **3–4 Credits** (Students who intend to attend graduate school in chemistry or to be certified by the Committee on Professional Training of the American Chemical Society (ACS) must take PHYS 201 and PHYS 202. Other students can choose PHYS 207 and PHYS 208.)

Electives

Natural Sciences (3 Credits)

Choose from the General Education Core list of Natural Science courses in consultation with academic advisor.

Social/Behavioral Sciences (3 Credits)

Choose from the General Education Core list of Social/Behavioral Science courses.

General Electives (5 Credits)

Minimum of 45 credit hours of 300 and 400 level courses must be taken. Choose from ANTH, ECON, GEOG, POLS, PSYC, or SOCI.

In order to be certified by the ACS, a student must choose from:

- CHEM 311 – Physical Chemistry Laboratory I **2 Credit(s)**
- CHEM 312 – Physical Chemistry Laboratory II **2 Credit(s)**
- CHEM 317 – Biochemistry I **3 Credit(s)**
- CHEM 430G – Instrumental Analysis **5 Credit(s)**
- CHEM 451G – Inorganic Chemistry **3 Credit(s)**
- CHEM 452 – Inorganic Chemistry Laboratory **2 Credit(s)**
- CHEM Elective 300/400–Level **3 Credit(s)**.
- MATH 301 – Calculus II **4 Credit(s)**
- MATH 302 – Calculus III **4 Credit(s)**

Total: 31-33 Credits

Junior Year

Required Courses

- CHEM 232 – Organic Chemistry II **3 Credit(s)**
- CHEM 234 – Organic Chemistry Laboratory II **2 Credit(s)**

- CHEM 270 – Chemical Literature **1 Credit(s)**
- CHEM **3 Credits.** ¹
- PHYS 215 – Physics Laboratory I **1 Credit(s)**
- PHYS 216 – Physics Laboratory II **1 Credit(s)**
- PHYS **3–4 Credits.** ²

Note:

¹ Students who intend to attend graduate school in chemistry or to be certified by the Committee on Professional Training of the American Chemical Society (ACS) must take CHEM 301, CHEM 302 and CHEM 401. Other students can choose another advanced chemistry course in the fall and CHEM 303 in the spring.

² Students who intend to attend graduate school in chemistry or to be certified by the Committee on Professional Training of the American Chemical Society (ACS) must take PHYS 201 and PHYS 202. Other students can choose PHYS 207 and PHYS 208.

Electives

Communication (3 Credits)

Choose from the **General Education Core** list of Communication courses in consultation with academic advisor.

Computer Science (3 Credits)

Choose in consultation with academic advisor.

General Electives (7 Credits)

Minimum of 45 credit hours of 300 and 400 level courses must be taken. Choose from ANTH, ECON, GEOG, POLS, PSYC, or SOCI.

In order to be certified by the ACS, a student must choose from:

- CHEM 311 – Physical Chemistry Laboratory I **2 Credit(s)**
- CHEM 312 – Physical Chemistry Laboratory II **2 Credit(s)**
- CHEM 317 – Biochemistry I **3 Credit(s)**
- CHEM 430G – Instrumental Analysis **5 Credit(s)**
- CHEM 451G – Inorganic Chemistry **3 Credit(s)**
- CHEM 452 – Inorganic Chemistry Laboratory **2 Credit(s)**
- CHEM Elective 300/400-Level **3 Credit(s)**.
- MATH 301 – Calculus II **4 Credit(s)**
- MATH 302 – Calculus III **4 Credit(s)**

Total: 27-29 Credits

Senior Year

Electives

Elective (14 Credits)

Minimum of 45 credit hours of 300 and 400 level courses must be taken. Choose from ANTH, ECON, GEOG, POLS, PSYC, or SOCI.

In order to be certified by the ACS, a student must choose from:

- CHEM 311 – Physical Chemistry Laboratory I **2 Credit(s)**
- CHEM 312 – Physical Chemistry Laboratory II **2 Credit(s)**
- CHEM 317 – Biochemistry I **3 Credit(s)**
- CHEM 430G – Instrumental Analysis **5 Credit(s)**
- CHEM 451G – Inorganic Chemistry **3 Credit(s)**
- CHEM 452 – Inorganic Chemistry Laboratory **2 Credit(s)**
- CHEM Elective 300/400-Level **3 Credit(s)**.

- MATH 301 – Calculus II **4 Credit(s)**
- MATH 302 – Calculus III **4 Credit(s)**

Chemistry (2 Credits)

Minimum of 45 credit hours of 300 and 400 level courses must be taken. Choose from ANTH, ECON, GEOG, POLS, PSYC, or SOCI.

In order to be certified by the ACS, a student must choose from:

- CHEM 311 – Physical Chemistry Laboratory I **2 Credit(s)**
- CHEM 312 – Physical Chemistry Laboratory II **2 Credit(s)**
- CHEM 317 – Biochemistry I **3 Credit(s)**
- CHEM 430G – Instrumental Analysis **5 Credit(s)**
- CHEM 451G – Inorganic Chemistry **3 Credit(s)**
- CHEM 452 – Inorganic Chemistry Laboratory **2 Credit(s)**
- CHEM Elective 300/400-Level **3 Credit(s)**.
- MATH 301 – Calculus II **4 Credit(s)**
- MATH 302 – Calculus III **4 Credit(s)**

Social/Behavioral Sciences (3 Credits)

Choose from the [General Education Core](#) list of Social/Behavioral Science courses. Three hours must be at the 200-level or above. Minimum of 45 credit hours of 300 and 400 level courses must be taken.

English Literature (3 Credits)

Choose from the [General Education Core](#) list of Literature courses in consultation with academic advisor.

English Literature, Philosophy, History, Humanities (3 Credits)

Choose in consultation with academic advisor.

Elective (3 Credits)

Choose in consultation with academic advisor.

Elective (4 Credits)

Total: 32 Credits

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