

# Chemistry Course Plan

## Catalog Year 2019-2020

### Legend

**\* Major Requirement**

Must be taken to fulfill major requirements.

**† Major Elective**

Must be taken to fulfill major requirements, or replaced with an equivalent course.

**‡ Gen-Ed Requirement**

Must be taken to fulfill general education requirements.

**§ Elective**

Can be chosen from a selection of courses.

*See MyGFU for detailed academic requirements.*

### First Year

#### Fall Semester

General Chemistry I (CHEM 211) *	4 credits
Calculus I (MATH 201) *	4 credits
I Believe (THEO 102) ‡	3 credits
Knowing and Being Known (LIBA 100) ‡	3 credits
Lifelong Fitness (HHPA 120) ‡	2 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>16 credits</b>

#### Spring Semester

General Chemistry II (CHEM 212) *	4 credits
Calculus II (MATH 202) *	4 credits
I Believe (THEO 102) ‡	3 credits
Introduction to Communication (COMM 100) ‡	3 credits
Elective Credits §	1 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>31 credits</b>

## Second Year

### Fall Semester

Organic Chemistry I (CHEM 331) *	4 credits
Calculus III (MATH 301) *	3 credits
General Physics or General Physics w/Calculus (spring semester) (PHYS 201 or 212) *	4 credits
Social Science GE Requirement ‡	3 credits
Elective Credits §	2 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>47 credits</b>

### Spring Semester

Organic Chemistry II (CHEM 332) *	4 credits
General Physics or General Physics w/Calculus (spring semester) (PHYS 202 or 211) *	4 credits
Bible Elective GE Requirement ‡	3 credits
HUMA 205 or Alternate GE Literature & Philosophy Requirement ‡	3 credits
Elective Credits §	3 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>64 credits</b>

## Third Year

### Fall Semester

Thermodynamics (CHEM 440**) *	4 credits
History/Politics/International Studies GE Requirement ‡	3 credits
HUMA 290 or Alternate GE Fine Arts Requirement ‡	3 credits
Elective Credits §	6 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>80 credits</b>

### Spring Semester

Advanced Inorganic Chemistry (CHEM 320**) *	3 credits
Intercultural GE Requirement ‡	3 credits
Elective Credits §	9 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>95 credits</b>

## Fourth Year

### Fall Semester

Analytical Chemistry (CHEM 310) *	4 credits
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Chemistry Seminar (CHEM 461) *	1 credits
Chemistry Elective Requirement †	4 credits
Engaging Christ in Transition (LIBA 400) ‡	3 credits
Elective Credits §	4 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>111 credits</b>

### Spring Semester

Quantum Chemistry (CHEM 450**) *	3 credits
Experimental Chemistry (CHEM 462) *	2 credits
Elective Credits §	10 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>126 credits</b>

## Notes

PHYS 211 is only offered in the spring semester and PHYS 212 is only offered in the fall semester.

\*\*Class offered in alternate years. Adjust schedule as necessary. See department advisor for additional information.