# Chemistry

Major

A major in chemistry consists of coursework distributed as follows:

## Core Courses

#### All required:

ltem #	Title	Credits
CH 110	General Chemistry	4.0
CH 203	Organic Chemistry I	4.0
CH 211	Quantitative Analysis	4.0
CH 231	Inorganic Chemistry	4.0

## Scientific Breadth Courses

#### Select two:

Item #	Title	Credits
BI 110	Biological Investigation	4.0
CS 160	Introduction to Computer Science	4.0
PY 201	College Physics I	4.0
PY 202	College Physics II	4.0

## Advanced Courses

#### Select three:

ltem #	Title	Credits
CH 304	Organic Chemistry II	4.0
CH 309	Biochemistry I	4.0
CH 312	Instrumental Methods of Analysis	4.0
CH 323	Thermodynamics	4.0
CH 327	Medicinal Chemistry	4.0
CH 332	Advanced Inorganic Chemistry	4.0
CH 365	Quantum Theory & Spectroscopy	4.0
CH 410	Biochemistry II	4.0
CH 461	Independent Study in Chemistry	1.0-4.0
CH 465	Independent Research in Chemistry	1.0-4.0

## Capstone

### Both required:

ltem #	Title	Credits
CH 441	Senior Seminar I	2.0
CH 442	Senior Seminar II	2.0

# Students may elect to concentrate in a particular sub-field as follows:

## Analytical Chemistry

ltem #	Title	Credits
CH 211	Quantitative Analysis	4.0
CH 312	Instrumental Methods of Analysis	4.0
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#### Biochemistry:

ltem #	Title	Credits
CH 309	Biochemistry I	4.0
CH 410	Biochemistry II	4.0
BI 110	Biological Investigation	4.0
BI 307	Cell and Molecular Biology	4.0

## Inorganic Chemistry

ltem #	Title	Credits
CH 231	Inorganic Chemistry	4.0
CH 304	Organic Chemistry II	4.0
CH 332	Advanced Inorganic Chemistry	4.0

## Physical Chemistry:

ltem #	Title	Credits
CH 323	Thermodynamics	4.0
CH 365	Quantum Theory & Spectroscopy	4.0
CH 312	Instrumental Methods of Analysis	4.0

## Medicinal Chemistry

Item #	Title	Credits
CH 304	Organic Chemistry II	4.0
CH 327	Medicinal Chemistry	4.0

# Pursuit of Graduate Chemistry

Students intending to pursue admission to graduate programs in chemistry or related fields are encouraged to complete the following coursework as described by the American Chemical Society (ACS):

Item #	Title	Credits
CH 110	General Chemistry	4.0
PY 201	College Physics I	4.0
PY 202	College Physics II	4.0
MA 213	Calculus I	4.0
MA 223	Calculus II	4.0
MA 233	Calculus III	4.0
CH 203	Organic Chemistry I	4.0
CH 211	Quantitative Analysis	4.0
CH 231	Inorganic Chemistry	4.0
CH 323	Thermodynamics	4.0
CH 309	Biochemistry l	4.0
CH 304	Organic Chemistry II	4.0
CH 312	Instrumental Methods of Analysis	4.0
CH 332	Advanced Inorganic Chemistry	4.0
CH 365	Quantum Theory & Spectroscopy	4.0
	Total Credits	40