

# CHEMISTRY - MINOR

Students seeking a minor in chemistry must complete the Declaration of Minor in Chemistry form and have it approved by the undergraduate advisor in chemistry and their academic advisor. A minor in Chemistry should represent course work taken in the discipline beyond courses that might be used to satisfy core curriculum science requirements (8 credits).

Therefore, though CHEM 119 or CHEM 107/CHEM 117 and CHEM 120 are prerequisites to all of the listed courses, they are not considered part of the minor program. The course work listed represents various sub-disciplines within the field of Chemistry and would give the student an overall knowledge base fitting a Minor in Chemistry. This is consistent with the statement on minors published by the American Chemical Society.

## Program Requirements

The student will choose five lecture courses (14-15 credits) and three laboratory courses (3-5 credits) from categories A. through E. below. The student must take at least one course from four of the five categories. Students must have a C average in all courses taken for a minor in Chemistry. CHEM 491 and CHEM 485 credits will not be allowed to count for the minor nor used in the Chemistry GPA calculation. Substitution of courses without the CHEM prefix will not be allowed.

Code	Title	Semester Credit Hours
<b>A. Organic Chemistry</b>		
CHEM 227	Organic Chemistry I	3
CHEM 228	Organic Chemistry II	3
CHEM 237	Organic Chemistry Laboratory	1
CHEM 238	Organic Chemistry Laboratory	1
CHEM 257	Organic Chemistry I - Structure and Function	4
CHEM 258	Organic Chemistry II - Reactivity and Applications	4
<b>B. Analytical Chemistry</b>		
CHEM 315	Fundamentals of Quantitative Analysis <sup>1</sup>	3
CHEM 316	Quantitative Analysis <sup>1</sup>	2
CHEM 318	Quantitative Analysis Laboratory	1
<b>C. Physical Chemistry</b>		
CHEM 310	Elements of Physical Chemistry <sup>2</sup>	3
CHEM 311	Physical Chemistry Laboratory	1
CHEM 322	Physical Chemistry for Engineers <sup>2</sup>	3
CHEM 325	Physical Chemistry Laboratory I	1
CHEM 326	Physical Chemistry Laboratory II	1
CHEM 327	Physical Chemistry I <sup>2</sup>	3
CHEM 328	Physical Chemistry II	3
<b>D. Inorganic Chemistry</b>		
CHEM 220	Physics and Chemistry of Inorganic Materials	3
CHEM 362	Descriptive Inorganic Chemistry	3
CHEM 383	Chemistry of Environmental Pollution	3
<b>E. Advanced Chemistry</b>		

CHEM 415	Analytical Chemistry	3
CHEM 433	Advanced Inorganic Chemistry Laboratory	2
CHEM 434	Analytical Instrumentation Laboratory	2
CHEM 446	Organic Chemistry III	3
CHEM 456	Chemical Biology	3
CHEM 462	Inorganic Chemistry	3
CHEM 464	Nuclear Chemistry	3
CHEM 466	Polymer Chemistry	3
CHEM 468	Materials Chemistry of Inorganic Materials	3
CHEM 470	Industrial Chemistry	3
CHEM 483	Green Chemistry	3
CHEM 489	Special Topics in...	1-4

<sup>1</sup> Students may not count both CHEM 315 and CHEM 316.

<sup>2</sup> Students may only count one from CHEM 310, CHEM 322, or CHEM 327.