

# AMERICAN CHEMICAL SOCIETY CERTIFICATION REQUIREMENTS

The Professional Chemists Comprehensive degree and Chemistry Comprehensive:Biochemistry emphasis meet these requirements. All others require additional coursework.

Code	Title	Credit Hours
<b>Introductory Chemistry Sequence</b>		
CHEM 160	General Chemistry	3
CHEM 160L	General Chemistry Laboratory	1
CHEM 161	General Chemistry	3
CHEM 161L	General Chemistry Laboratory	1
<b>Core Curriculum Sequence</b>		
CHEM 169	Chemistry Foundations and Careers	1
CHEM 301	Analytical Chemistry	3
CHEM 301L	Analytical Chemistry Lab	1
CHEM 310	Safety in Chemistry	1
CHEM 351	Biochemistry I	4
CHEM 360	Organic Chemistry	4
CHEM 360L	Organic Chemistry Laboratory	1
CHEM 430	Inorganic Chemistry	3
CHEM 469	Advanced Seminar in Chemistry	1
CHEM 480	Physical Chemistry	3
CHEM 490L	Advanced Chemistry Laboratory I	2
CHEM 499L	Research in Chemistry	1-3
<b>Advanced Chemistry Requirements</b>		
Select 4 lecture courses (11 credit hours) of the following:		
CHEM 300-CHEM 499		
Select 4 lab credit hours of the following:		
CHEM 300-CHEM 499L <sup>1</sup>		
<b>Supporting Courses</b>		
MATH 115	Calculus I with Analytic Geometry <sup>2</sup>	5
MATH 202	Calculus II with Analytic Geometry	5
PHYS 275	General Physics I (Calculus)	4
PHYS 275L	General Physics I (Calculus) Laboratory	1
PHYS 276	General Physics II (Calculus)	4
PHYS 276L	General Physics II (Calculus) Laboratory	1

1

Except CHEM 399

2

Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:

- MATH 102
- MATH 103