

# CHEMISTRY MAJOR - ACS CERTIFIED CURRICULUM

## Plan of Study

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
CHEM 1171	General Chemistry I	3
CHEM 1171L	General Chemistry I Lab	1
MATH 1141 or MATH 1171	Calculus I for Chemistry, Engineering, and Physics Majors or Calculus I	4
PHYS 1171	General Physics I	3
PHYS 1171L	General Physics I Lab	1
Core Courses		6
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
CHEM 1172	General Chemistry II	3
CHEM 1172L	General Chemistry II Lab	1
MATH 1142 or MATH 1172	Calculus II for Chemistry, Engineering, and Physics Majors or Calculus II	4
PHYS 1172	General Physics II	3
PHYS 1172L	General Physics II Lab	1
Core Courses		6
<b>Credits</b>		<b>18</b>
<b>Second Year</b>		
<b>Fall</b>		
CHEM 2271	Organic Chemistry I	3
CHEM 2271L	Organic Chemistry I Lab	1
MATH 2243 or MATH 2273	Calculus III for Chemistry, Engineering, and Physics Majors or Multivariable Calculus	4
Core Courses and Electives		9
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
CHEM 2272	Organic Chemistry II	3
CHEM 2272L	Organic Chemistry II Lab	1
CHEM 2282	Chemical Analysis	3
CHEM 2282L	Chemical Analysis Lab	1
Core Courses and Electives		9
<b>Credits</b>		<b>17</b>
<b>Third Year</b>		
<b>Fall</b>		
CHEM 3326	Chemical Instrumentation <sup>1</sup>	3
CHEM 3361	Physical Chemistry I	3
CHEM 3361L	Physical Chemistry I Lab	1
MATH 2251	Ordinary Differential Equations	3
Core Courses and Electives		6
<b>Credits</b>		<b>16</b>

### Spring

CHEM 3326L	Instrumental-Analytical Chemistry Lab <sup>1</sup>	3
CHEM 3362	Physical Chemistry II	3
CHEM 3362L	Physical Chemistry II Lab	1
Core Courses and Electives		9
<b>Credits</b>		<b>16</b>

### Fourth Year

#### Fall

CHEM 3341	Advanced Inorganic Chemistry <sup>1</sup>	3
CHEM 3341L	Advanced Inorganic Chemistry Lab <sup>1</sup>	2
CHEM 4971	Research and Seminar I <sup>2</sup>	3
Core Courses and Electives		9
<b>Credits</b>		<b>17</b>

#### Spring

CHEM 3323L or BIOL 3323L	Biochemistry Lab <sup>1</sup> or Biochemistry Lab	1
CHEM 3324 or BIOL 3324	Biochemistry I <sup>1</sup> or Biochemistry I	3
Core Courses and Electives		9
<b>Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>132</b>

<sup>1</sup> May be taken either third or fourth year.

<sup>2</sup> 1-3 credits per semester. May be taken in fall, spring, or both semesters of the fourth year.