

## BS in Chemistry

**Approved by UIC Faculty Senate, March, 2007**

### **Requirements for the Curriculum**

The Requirements for the Curriculum include courses necessary to complete the General Education and Writing-in-the-Discipline requirements described in the *College of Liberal Arts and Sciences* section of the Undergraduate Catalog.

<b>Courses</b>	<b>Hours</b>
MATH 180—Calculus I <sup>b,c</sup>	5
MATH 181—Calculus II <sup>c</sup>	5
MATH 210—Calculus III <sup>c</sup>	3
PHYS 141—General Physics I (Mechanics) <sup>c</sup>	4
PHYS 142—General Physics II (Electricity and Magnetism) <sup>c</sup>	4
<b>One of the following sequences in general and analytical chemistry:</b>	14
CHEM 116—Honors General Chemistry I (5) <sup>cd</sup>	
CHEM 118—Honors General Chemistry II (5) <sup>cd</sup>	
CHEM 222—Analytical Chemistry (4) <sup>d</sup>	
<b>OR</b>	
CHEM 112—General College Chemistry I (5) <sup>c</sup>	
CHEM 114—General College Chemistry II (5) <sup>c</sup>	
CHEM 222—Analytical Chemistry (4)	
CHEM 232—Organic Chemistry I	4
CHEM 233—Organic Chemistry Laboratory I	1
CHEM 234—Organic Chemistry II	4
CHEM 314—Inorganic Chemistry	4
CHEM 333—Advanced Synthetic Laboratory	3
CHEM 342—Physical Chemistry I	3
CHEM 343—Physical Chemistry Laboratory <sup>e</sup>	3
CHEM 346—Physical Chemistry II	3
CHEM 402—Chemical Information Systems	2
CHEM 421—Instrumental Analysis	4
CHEM 452—Biochemistry I	4
<b>One of the following advanced lecture courses:</b>	2
CHEM 414—Advanced Inorganic Chemistry (2)	
CHEM 432—Advanced Organic Chemistry (2)	
CHEM 444—Advanced Physical Chemistry (2)	
<b>One of the following advanced laboratory courses:</b>	3
CHEM 415—Inorganic Chemistry Laboratory (3)	
CHEM 455—Biochemistry Laboratory (3)	
CHEM 499—Supervised Research (3)	
Electives at the 300-level or above in the natural sciences or mathematics, as approved by the departmental adviser	3
Electives	5–21
<b>Total Hours—Requirements for the Curriculum</b>	<b>120</b>

<sup>a</sup> Students should consult the General Education section of the catalog for a list of approved courses in this category.

<sup>b</sup> MATH 180 fulfills the LAS Quantitative Reasoning requirement.

<sup>c</sup> This course is approved for the Analyzing the Natural World General Education category.

<sup>d</sup> CHEM 116, 118, and 222 are recommended.

<sup>e</sup> CHEM 343 fulfills the LAS Writing-in-the-Discipline requirement.