B.A. Chemistry

College and University Requirements 23-26

a. English Composition (2 courses) 6
b. Arts and Humanities 8
c. First Year Seminar (1 course) 1-4
d. Social Sciences 8

Common Core

Select one of the following: 8

CHM 040 & CHM 041 Concepts, Models and Experiments I and II 4
CHM 030 & CHM 031 Introduction to Chemical Principles and Chemical Equilibria in Aqueous Systems 4
CHM 110 & CHM 111 Organic Chemistry I and Laboratory I 4
CHM 112 & CHM 113 Organic Chemistry II and Laboratory II 4
CHM 332 Analytical Chemistry 3
See Concentrations - Physical chemistry 3-8
CHM 201 Technical Writing 1 2
CHM 301 Chemistry Seminar 2 1
CHM 307 Advanced Inorganic Chemistry 3

Collateral Requirement

Select one of the following: 19-28

Path A

MATH 021 Calculus I
MATH 022 Calculus II
MATH 023 Calculus III
MATH 205 Linear Methods
PHY 011 & PHY 012 Introductory Physics I and Laboratory I
PHY 021 & PHY 022 Introductory Physics II and Laboratory II
ENGR 010 Applied Engineering Computer Methods 2
or CSE 002 Fundamentals of Programming

Path B

MATH 051 Survey of Calculus I
MATH 052 Survey of Calculus II
MATH 043 Survey of Linear Algebra
PHY 010 & PHY 012 General Physics I and Introductory Physics Laboratory I
PHY 013 & PHY 022 General Physics II and Introductory Physics Laboratory II
Specialization Courses
Select one of the following:  

CHM 341  Molecular Structure, Bonding and Dynamics  
CHM 342  Thermodynamics & Kinetics  
CHM 194  Physical Chemistry for Biological Sciences  
CHM 343  Physical Chemistry Laboratory  
CHM elective  

Total Credits  

3  
2  
3  
3  
65-79
B.A. Chemistry - Business Concentration

College and University Requirements 23-26
a. English Composition (2 courses) 6
b. Arts and Humanities 8
c. First Year Seminar (1 course) 1-4
d. Social Sciences 8

Common Core
Select one of the following: 8
CHM 040 & CHM 041 Concepts, Models and Experiments I and II 4
CHM 030 & CHM 031 Introduction to Chemical Principles and Chemical Equilibria in Aqueous Systems 4
CHM 110 & CHM 111 Organic Chemistry I and Laboratory I 4
CHM 112 & CHM 113 Organic Chemistry II and Laboratory II 4
CHM 332 Analytical Chemistry 3
See Concentrations - Physical chemistry 3-8
CHM 201 Technical Writing 1 2
CHM 301 Chemistry Seminar 2 1
CHM 307 Advanced Inorganic Chemistry 3

Collateral Requirement
Select one of the following: 19-28
Path A
MATH 021 Calculus I
MATH 022 Calculus II
MATH 023 Calculus III
MATH 205 Linear Methods
PHY 011 & PHY 012 Introductory Physics I and Laboratory I
PHY 021 & PHY 022 Introductory Physics II and Laboratory II
ENGR 010 Applied Engineering Computer Methods
or CSE 002 Fundamentals of Programming

Path B
MATH 051 Survey of Calculus I
MATH 052 Survey of Calculus II
MATH 043 Survey of Linear Algebra
PHY 010 & PHY 012 General Physics I and Introductory Physics Laboratory I
PHY 013 & PHY 022 General Physics II and Introductory Physics Laboratory II
## Specialization Courses

CHM elective 3

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHM 341</td>
<td>Molecular Structure, Bonding and Dynamics</td>
<td>3</td>
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<tr>
<td>CHM 342</td>
<td>Thermodynamics &amp; Kinetics</td>
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<tr>
<td>CHM 194</td>
<td>Physical Chemistry for Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>CHM 343</td>
<td>Physical Chemistry Laboratory</td>
<td>2</td>
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<tr>
<td>ECO 001</td>
<td>Principles of Economics</td>
<td>4</td>
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<tr>
<td>BUS 125</td>
<td>Behavioral Skills Workshop</td>
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<tr>
<td>BUS 126</td>
<td>Information Analysis and Financial Decision Making I</td>
<td>3</td>
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<tr>
<td>BUS 127</td>
<td>Information Analysis and Financial Decision Making II</td>
<td>3</td>
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<tr>
<td>BUS 225</td>
<td>Developing, Producing, and Marketing Products and Services I</td>
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<tr>
<td>BUS 226</td>
<td>Developing, Producing, and Marketing Products and Services II</td>
<td>3</td>
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<tr>
<td>BUS 326</td>
<td>Business Strategy</td>
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<tr>
<td>MATH 012</td>
<td>Basic Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits** 85-99
B.A. Chemistry - Health Professions Concentration

Common Core
Select one of the following: 8
CHM 040 & CHM 041 Concepts, Models and Experiments I and II 4
CHM 030 & CHM 031 Introduction to Chemical Principles and Chemical Equilibria in Aqueous Systems 4
CHM 110 & CHM 111 Organic Chemistry I and Laboratory I 4
CHM 112 & CHM 113 Organic Chemistry II and Laboratory II 4
CHM 332 Analytical Chemistry 3
See Concentrations - Physical chemistry 3-8
CHM 201 Technical Writing 1 2
CHM 301 Chemistry Seminar 2 1
CHM 307 Advanced Inorganic Chemistry 3

Collateral Requirement
Select one of the following: 19-28

Path A
MATH 021 Calculus I
MATH 022 Calculus II
MATH 023 Calculus III
MATH 205 Linear Methods
PHY 011 & PHY 012 Introductory Physics I and Laboratory I
PHY 021 & PHY 022 Introductory Physics II and Laboratory II
ENGR 010 Applied Engineering Computer Methods
or CSE 002 Fundamentals of Programming

Path B
MATH 051 Survey of Calculus I
MATH 052 Survey of Calculus II
MATH 043 Survey of Linear Algebra
PHY 010 & PHY 012 General Physics I and Introductory Physics Laboratory I
PHY 013 & PHY 022 General Physics II and Introductory Physics Laboratory II
Specialization Courses

CHM elective 3
Select one of the following: 3

CHM 341 Molecular Structure, Bonding and Dynamics
CHM 342 Thermodynamics & Kinetics
CHM 194 Physical Chemistry for Biological Sciences
CHM 343 Physical Chemistry Laboratory 2

BIOS 115 & BIOS 116 Biology Core II: Genetics & Laboratory 4
BIOS 041 & BIOS 042 Biology Core I: Cellular and Molecular and Lab 4
MATH 012 Basic Statistics 4

Additional courses in BioS are recommended.

Total Credits 75-89

1 Other writing intensive courses may be substituted with the approval of the advisor but any substitute course should have a science focus.

2 CHM 301 may be substituted by any course having a major presentation component with the approval of the major advisor.

3 MATH 012 may be substituted by any statistics course.