

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

Collateral Requirement

Select one of the following:	19-28
Path A	
<u>MATH 021</u> Calculus I	
<u>MATH 022</u> Calculus II	
<u>MATH 023</u> Calculus III	
<u>MATH 205</u> Linear Methods	
<u>PHY 011</u> & <u>PHY 012</u> Introductory Physics I and Laboratory I	
<u>PHY 021</u> & <u>PHY 022</u> Introductory Physics II and Laboratory II	
<u>ENGR 010</u> Applied Engineering Computer Methods	2
or <u>CSE 002</u> Fundamentals of Programming	
Path B	
<u>MATH 051</u> Survey of Calculus I	
<u>MATH 052</u> Survey of Calculus II	
<u>MATH 043</u> Survey of Linear Algebra	
<u>PHY 010</u> & <u>PHY 012</u> General Physics I and Introductory Physics Laboratory I	
<u>PHY 013</u> & <u>PHY 022</u> General Physics II and Introductory Physics Laboratory II	

Specialization Courses

Select one of the following:		3
<u>CHM 341</u>	Molecular Structure, Bonding and Dynamics	
<u>CHM 342</u>	Thermodynamics & Kinetics	
<u>CHM 194</u>	Physical Chemistry for Biological Sciences	
<u>CHM 343</u>	Physical Chemistry Laboratory	2
CHM elective		3
Total Credits		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
<u>CHM 040</u> & <u>CHM 041</u> Concepts, Models and Experiments I and II	4
<u>CHM 030</u> & <u>CHM 031</u> Introduction to Chemical Principles and Chemical Equilibria in Aqueous Systems	4
<u>CHM 110</u> & <u>CHM 111</u> Organic Chemistry I and Laboratory I	4
<u>CHM 112</u> & <u>CHM 113</u> Organic Chemistry II and Laboratory II	4
<u>CHM 332</u> Analytical Chemistry	3
See Concentrations - Physical chemistry	3-8
<u>CHM 201</u> Technical Writing ¹	2
<u>CHM 301</u> Chemistry Seminar ²	1
<u>CHM 307</u> Advanced Inorganic Chemistry	3

Collateral Requirement

Select one of the following: 19-28

Path A

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

Path B

<u>MATH 051</u>	Survey of Calculus I
<u>MATH 052</u>	Survey of Calculus II
<u>MATH 043</u>	Survey of Linear Algebra
<u>PHY 010</u> & <u>PHY 012</u>	General Physics I and Introductory Physics Laboratory I
<u>PHY 013</u> & <u>PHY 022</u>	General Physics II and Introductory Physics Laboratory II

Specialization Courses

CHM elective		3
Select one of the following:		3
<u>CHM 341</u>	Molecular Structure, Bonding and Dynamics	
<u>CHM 342</u>	Thermodynamics & Kinetics	
<u>CHM 194</u>	Physical Chemistry for Biological Sciences	
<u>CHM 343</u>	Physical Chemistry Laboratory	2
<u>ECO 001</u>	Principles of Economics	4
<u>BUS 125</u>	Behavioral Skills Workshop	1
<u>BUS 126</u>	Information Analysis and Financial Decision Making I	3
<u>BUS 127</u>	Information Analysis and Financial Decision Making II	3
<u>BUS 225</u>	Developing, Producing, and Marketing Products and Services I	3
<u>BUS 226</u>	Developing, Producing, and Marketing Products and Services II	3
<u>BUS 326</u>	Business Strategy	1
<u>MATH 012</u>	Basic Statistics ³	4
Total Credits		85-99

B.A. Chemistry - Health Professions Concentration

Common Core

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

Collateral Requirement

Select one of the following: 19-28

Path A

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

Path B

<u>MATH 051</u>	Survey of Calculus I
<u>MATH 052</u>	Survey of Calculus II
<u>MATH 043</u>	Survey of Linear Algebra
<u>PHY 010</u> & <u>PHY 012</u>	General Physics I and Introductory Physics Laboratory I
<u>PHY 013</u> & <u>PHY 022</u>	General Physics II and Introductory Physics Laboratory II

Specialization Courses

CHM elective		3
Select one of the following:		3
<u>CHM 341</u>	Molecular Structure, Bonding and Dynamics	
<u>CHM 342</u>	Thermodynamics & Kinetics	
<u>CHM 194</u>	Physical Chemistry for Biological Sciences	
<u>CHM 343</u>	Physical Chemistry Laboratory	2
<u>BIOS 115</u> & <u>BIOS 116</u>	Biology Core II: Genetics & Laboratory	4
<u>BIOS 041</u> & <u>BIOS 042</u>	Biology Core I: Cellular and Molecular and Lab	4
<u>MATH 012</u>	Basic Statistics ³	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.