Chemflex Overview:

Common Chemistry core

CHM 40, 41 (or CHM 30, 31)	8	Introductory chemistry
CHM 110,111,112,113	8	Organic chemistry
CHM 332	3	Analytical chemistry
CHM 201***	2	Technical writing
CHM 301*	1	Undergraduate seminar
CHM 307	3	Advanced inorganic chemistry

Total = 25 credits

Collateral Requirements

PATH A (CREDITS)		PATH B (CREDITS)	
Math 21 (4)	Calculus I	Math 51 (4)	Survey of Calculus I
Math 22 (4)	Calculus II	Math 52 (3)	Survey of Calculus II
Math 23 (4)	Calculus III	Math 43 (3)	Survey of Linear Methods
Math 205 (3)	Linear methods	Phys 10, 12 (5)	General Physics I and lab
Phys 11, 12 (5)	Introductory Physics I and lab	Phys13, 22 (4)	General Physics II and lab
Phys 21, 22 (5)	Introductory Physics II and lab		
Eng 1or CSC 12 (3)	Survey of Computer Science		
Total credits = 28		Total credits = 19	

Degrees:

BS Chemistry (ACS certified Degree)

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A	28	see above
and the following:	21 (for concentration)	
CHM 343	1	Physical chemistry laboratory
CHM 341	4	Physical chemistry I
CHM 342	4	Physical chemistry II
CHM 334	3	Advanced chemistry laboratory I
CHM 335	3	Advanced chemistry laboratory II
CHM 371	3	Elements of biochemistry I
CHM ELECT 3__	3	Advanced chemistry elective

BS Chemistry - Analytical/Physical Concentration

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A	28	see above
and the following:	15 (for concentration)	
CHM 343	1	Physical chemistry laboratory
CHM 341	4	Physical chemistry I
CHM 342	4	Physical chemistry II
CHM 334	3	Advanced chemistry laboratory I
CHM 335	3	Advanced chemistry laboratory II

BS Chemistry – Polymers Concentration

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A	28	see above
and the following:	18	
CHM 341	4	Physical chemistry I
CHM 342	4	Physical chemistry II
CHM 343	1	Physical chemistry laboratory
CHM 388	3	Polymer synthesis and characterization lab
CHM 393	3	Physical polymer science
CHM 394	3	Organic polymer science

BS Pharmaceutical Chemistry

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A or B	28 or 19	see above
and the following:	26 (for concentration)	
CHM 194 (or CHM 341)	3	Physical Chemistry for Biological Sciences
CHM 358	3	Advanced organic
CHM 371	3	Elements of biochemistry I
CHM 372	3	Elements of biochemistry II
CHM 3__	3	Advanced chemistry elective
BioS 41, 42	4	Cellular and molecular biology
BioS 115	3	Genetics
Math 12**	4	Statistics

BS Chemistry – Materials Concentration

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A	28	see above
and the following:	18 (for concentration)	
CHM 343	1	Physical chemistry laboratory
CHM 341	4	Physical chemistry I
CHM 342	4	Physical chemistry II
CHM 334	3	Advanced chemistry laboratory I
CHM 335	3	Advanced chemistry laboratory II
Mat 33	3	Engineering materials and processing

BA Chemistry

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A or B	28 or 19	see above
and the following:	7-8 (for concentration)	
CHM 341 or CHM 194	3-4	Physical chemistry
CHM 343	1	Physical chemistry laboratory
CHM elective	3	

BA Chemistry - Business Concentration

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A or B	28 or 19	see above
and the following:	29-30 (for concentration)	
CHM elective	3	
CHM 341 or CHM 194	3-4	Physical chemistry
CHM 343	1	Physical chemistry laboratory
Eco 1	4	Principles of economics
Bus 125	1	Behavioral skills workshop
Bus 126	3	Information analysis and financial decision making I
Bus 127	3	Information analysis and financial decision making II
Bus 225	3	Developing, producing, and marketing products and services I
Bus 226	3	Developing, producing, and marketing products and services II
Bus 326	1	Business strategy
Math 12**	4	Statistics

Please note: admission to the Business minor program is controlled by the Business College.

BA Chemistry – Health Professions Concentration

Course Number	Number of Credits	Name of Course
Common core	25	see above
Path A or B	28 or 19	see above
and the following:	18-19	
CHM elective	3	
CHM 341 or CHM 194	3-4	Physical chemistry
CHM 343	1	Physical chemistry laboratory
EES 31, 32	4	Introduction to Environmental and Organismal Biology
BioS 41	4	Biology Core I: Molecular and Cellular Biology
Math 12**	4	Statistics

Additional courses in Biological Sciences are recommended.

* CHM 301 may be substituted by any course having a major presentation component with the approval of the major advisor.
** Math 12 may be substituted by any statistics course.
*** Other writing intensive courses may be substituted with the approval of the advisor but should have a science focus.
****CHM 301 is not required for the Biochemistry degree.