

Chemistry Major - Science Option (BS)

Suggested Plan of Study		2015-2016 Catalog	
Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1045 Pre-Calculus Mathematics	5	MATH 1525 Calculus I	5
*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	17	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
World Literature I/II (ENGL 2213 or ENGL 2223)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3
BIOL 1103/1101 University Biology I/Lab	4	MATH 1545 Calculus II	5
CHEM 3003/3001 Organic Chemistry I/Lab	4	CHEM 3103/3101 Organic Chemistry II/Lab	4
Social Science choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, or THEA 2003)	3
Total Semester Hours	14	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
CHEM 3212/3202 Quantitative Chemical Analysis /Lab	4	CHEM 3113/3111 Instrumental Analysis/Lab	4
CHEM 3233/3231 Intermediate Inorganic Chemistry CHEM 3231 Intermediate Inorganic Chemistry Lab**	4	CHEM 3073/3071 Biochemistry I CHEM 3071 Biochemistry I Lab **	4
PHYS 2203/2201 University Physics I/Lab	4	PHYS 2213/2211 University Physics II/Lab	4
Free Elective	3	CHEM Elective	3
Total Semester Hours	15	Total Semester Hours	14/15
Fall - Semester 7		Spring - Semester 8	
CHEM 4403/4401 Physical Chemistry: Thermodynamics/Lab	4	CHEM 4413/4411 Physical Chemistry: Quantum and Kinetics/Lab	4
MATH 2563 Calculus III	3	CHEM 4701 Undergraduate Research	1
Science and Engineering Elective	4	Science and Engineering Elective	4
Free Elective	3	CHEM Elective	2
Total Semester Hours	14	Total Semester Hours	14

Total hours required for major – 120

*Note: Must have six hours of history/government. Three hours must be World History I or II. Three hours must be U.S. History I, U.S. History II or American Government: National.

Chemistry Electives

**Either CHEM 3231 or CHEM 3071 is required for the chemistry core hours.

CHEM 3071 Biochemistry I Lab	CHEM 4701-3 Undergraduate Research
CHEM 4013 Advanced Organic Chemistry	CHEM 4791-3 Advanced Topics in Chemistry I
CHEM 4033 Advanced Inorganic Chemistry	CHEM 4891-3 Advanced Topics in Chemistry II
CHEM 4043/4041 Advanced Analytical Chemistry/Lab	CHEM 4991-3 Advanced Topics in Chemistry III
CHEM 4073 Biochemistry II	