

**Chemistry Major - Pre-Health Professional Option Biochemistry (BS)**

Suggested Plan of Study

2014-2015 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1045 Pre-Calculus	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		
<b>Total Semester Hours</b>	<b>17</b>	<b>Total Semester Hours</b>	<b>15</b>
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	BIOL 2023/2021 Vertebrate Zoology/Lab	4
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
<b>Total Semester Hours</b>	<b>14</b>	<b>Total Semester Hours</b>	<b>14</b>
Fall - Semester 5		Spring - Semester 6	
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
BIOL 2083/2081 General Botany/Lab	4	BIOL 3032/3022 General Microbiology/Lab	4
CHEM 3212/3202 Quantitative Chemical Analysis /Lab	4	CHEM 3073/3071 Biochemistry I/Lab	4
Free Elective	3	CHEM 3223/3221 Instrumental Analysis/Lab	4
		CHEM 3051 Junior Seminar - Chemistry	1
<b>Total Semester Hours</b>	<b>15</b>	<b>Total Semester Hours</b>	<b>17</b>
Fall - Semester 7		Spring - Semester 8	
BIOL 3033/3031 Genetics	4	BIOL 3043 Cell Biology	3
CHEM 4073 Biochemistry II	3	BIOL 3123/3111 Embryology/Lab	4
CHEM 4403/4401 Physical Chemistry: Thermodynamics/Lab	4	BIOL 3403 Medical Terminology	3
Science and Engineering Elective	2	CHEM 4051 Senior Seminar - Chemistry	1
Free Elective	3	Science and Engineering Elective	1
<b>Total Semester Hours</b>	<b>16</b>	<b>Total Semester Hours</b>	<b>12</b>

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.