

# CHEMISTRY (B.S.) PRE-PROFESSION CONCENTRATION

## Curriculum Map

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 381	CHEMISTRY SEMINAR	0.5
CHEM 380	INDEPENDENT STUDY	1
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>12.5</b>

<b>Spring</b>		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 380	INDEPENDENT STUDY	1
CHEM 382	CHEMISTRY SEMINAR	0.5
Statistics Option		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>13.5</b>

<b>Senior</b>		
<b>Fall</b>		
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 481	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
Social & Behavioral Science Option		3
<b>Hours</b>		<b>14.5</b>

<b>Spring</b>		
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
CHEM 432	BIOCHEMISTRY II	3
CHEM 482	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
Humanities & Fine Arts Option		3
<b>Hours</b>		<b>13.5</b>
<b>Total Hours</b>		<b>120</b>

### Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

### Statistics Option Courses

Code	Title	Hours
Select one of the following courses		
MATH 271	ELEMENTARY STATISTICS I	3
BIO 202	ELEMENTARY BIostatISTICS	3
PSY 211	STATISTICS I	3

### Pre-Professional Option Courses

Code	Title	Hours
Students must choose six (6) hours of the following pre-professional courses		
CHEM 421	CHEMICAL INSTRUMENTATION	3
CHEM 342	PHYSICAL CHEMISTRY II	3
CHEM 441	INORGANIC CHEMISTRY II	3
BIO 318	INTRODUCTORY GENETICS	3
BIO 440	CELL BIOLOGY	3
BIO 441	HISTOLOGY	3
BIO 470	HUMAN PHYSIOLOGY	3