

**DEPARTMENT OF NATURAL SCIENCES**  
**MAJOR: CHEMISTRY (PRE-PROFESSIONAL CONCENTRATION) (47 HOURS)**

NO MINOR REQUIRED

ADDITIONAL HOURS REQUIRED (16 HOURS)

TOTAL HOURS TO COMPLETE: 63 HOURS

<b>CHEMISTRY MAJOR REQUIREMENTS (34 HOURS)</b>				
	COURSE NAME	HRS	TERM	PREREQUISITES
CHEM 201	ORGANIC CHEMISTRY I	4	FALL	CHEM 112 with a minimum grade of "C."
CHEM 202	ORGANIC CHEMISTRY II	4	SPRING	CHEM 201 with a minimum grade of "C."
CHEM 301	ANALYTICAL CHEMISTRY	4	FALL (AS NEEDED)	CHEM 201
CHEM 302	INSTRUMENTAL ANALYSIS	4	SPRING (AS NEEDED)	CHEM 201
CHEM 351	INORGANIC CHEMISTRY	4	SPRING (AS NEEDED)	CHEM 202
CHEM 401	PHYSICAL CHEMISTRY I	4	FALL (AS NEEDED)	CHEM 201 and MATH 152
CHEM 402	PHYSICAL CHEMISTRY II	4	SPRING (AS NEEDED)	CHEM 401
CHEM 422	BIOCHEMISTRY (cross-listed with BIOL 422)	4	FALL	CHEM 202 with a minimum grade of "C."
CHEM 391	CHEMISTRY SEMINAR (W13)	1	FALL, SPRING	CHEM 202
CHEM 491	CHEMISTRY SEMINAR (W13 & PRE)	1	FALL, SPRING	CHEM 391
<b>TOTAL MAJOR HOURS</b>		<b>34</b>		

<b>PRE-PROFESSIONAL CONCENTRATION REQUIREMENTS (13 HOURS)</b>				
	COURSE NAME	HRS	TERM	PREREQUISITES
BIOL 203	HUMAN ANATOMY AND PHYSIOLOGY I	4	FALL, SPRING	BIOL 101 or BIOL 111 with a grade of "C" or higher, or SEE CATALOG
BIOL 204	HUMAN ANATOMY AND PHYSIOLOGY II	4	FALL, SPRING, and SUMMER (variable)	BIOL 203 with a grade of "C" or higher, or Permission from Instructor
BIOL 222	MEDICAL TERMINOLOGY	1	SPRING	BIOL 203
CHOOSE ONE	SELECT 4 CREDIT HOURS FROM THE FOLLOWING:			
BIOL 206	GENERAL MICROBIOLOGY	4	SPRING	BIOL 111 or Permission from Instructor
BIOL 301	GENETICS	4	SPRING	BIO 111 and CHEM 201
BIOL 352	CELL BIOLOGY	4	FALL	BIOL 111 and CHEM 112 with a minimum grade of "C."
BIOL 411	IMMUNOLOGY	4	SPRING (ODD YEARS)	CHEM 202
<b>TOTAL CONCENTRATION HOURS</b>		<b>13</b>		

ADDITIONAL REQUIREMENTS (16 HOURS)*				
	COURSE NAME	HRS	TERM	PREREQUISITES
CHEM 112	GENERAL CHEMISTRY II**	4	SPRING	CHEM 111 with a minimum grade of "C."
PHYS 203	GENERAL PHYSICS FOR SCIENTISTS AND ENGINEERS I	4	FALL	MATH 151 or higher.
PHYS 204	GENERAL PHYSICS FOR SCIENTISTS AND ENGINEERS II	4	SPRING	PHYS 203 or Permission from Instructor, and MATH 151 or higher.
MATH 152	CALCULUS II	4	FALL, SPRING	MATH 151
<b>TOTAL ADDITIONAL HOURS</b>		<b>16</b>		

*NOTE: BIOL 111, CHEM 111, MATH 151, and PSYC 201 are required to fulfill General Education requirements. Students must receive a grade of "C" or better in all biology courses for this concentration; The general pre-professional concentration is designed for students interested in pursuing careers in medicine, pharmacy, and dentistry within the context of a chemistry major. Specific professional programs may require additional courses.*

*\*NOTE: Will be considered satisfactory if completed with a passing grade (D- or better) with the exception of CHEM 112.*

*\*\*NOTE: Must be completed with a "C" or better; Chemistry majors electing to complete a Forensics minor will earn credit for CHEM 112 as part of that minor; Chemistry majors electing to complete and Environmental Science minor will earn credit for CHEM 112 as part of that minor.*