

<b>REQUIRED COURSES FOR CHEMISTRY MAJORS</b>	<b>BS DEGREE ENTRY 141</b>	<b>BS DEGREE ENTRY 221Z</b>	<b>BA DEGREE ENTRY 141</b>	<b>BA DEGREE ENTRY 221Z</b>
<b>CHEMISTRY CORE COURSES (SEMESTER)</b>				
CHEM 141: General Chemistry I w/ Lab (F)	YES or AP	AP CREDIT	YES or AP	AP CREDIT
CHEM 142: General Chemistry II w/ Lab (S)	YES	N/A	YES	N/A
CHEM 221: Organic Chemistry I w/ Lab (F)	YES		YES	
CHEM 222: Organic Chemistry II w/ Lab (S)	YES		YES	
CHEM 221Z: Organic Structure I (F)		YES		YES
CHEM 222Z: Organic Structure II (S)		YES		YES
CHEM 221L: Organic Chemistry Lab (F) OR CHEM 226L: Organic Chemistry Lab (2 credits) (F)	YES	YES	YES	YES
CHEM 222L: Organic Chemistry Lab CHEM 227L: Organic Chemistry Lab (2 credits) (S)	YES	YES	YES	YES
CHEM 260: Quantitative Analytical Chemistry (F/S)	YES	YES	YES	YES
CHEM 260L: Analytical Chemistry Lab (F/S)	YES	YES	YES	YES
CHEM 300: Physical Chemistry for Life Sciences (F)			YES or 331	YES OR 331
CHEM 301: Biochemistry (F/S)	YES	YES	YES or 350	YES or 350
CHEM 331: Physical Chemistry I (F)	YES	YES	YES OR 300	YES OR 300
CHEM 331L: Physical Chemistry I Lab (F)	YES	YES		
CHEM 332: Physical Chemistry II (S)	YES	YES		
CHEM 332L: Physical Chemistry II Lab (S)	YES	YES		
CHEM 350: Inorganic Chemistry (F)	YES	YES	YES or 301	YES or 301
<b>REQUIRED CHEMISTRY ELECTIVES*</b>				
At 230 level or higher (any combination of lab and/or lecture)	3 hours	6 hours	3 hours	6 hours
<b>NON CHEMISTRY REQUIREMENTS</b>				
MATH 111: CALCULUS I	YES	YES	YES	YES
MATH 112: CALCULUS II	YES	YES		
BIO 141: FOUNDATIONS OF MODERN BIOLOGY I W/LAB	YES**	YES**	YES**	YES**
PHYS 141/L: INTRO PHYSICS I W/LAB OR PHYS 151/L: GENERAL PHYSICS: MECHANICS W/LAB	YES	YES	YES	YES
PHYS 142/L: INTRO PHYSICS II W/LAB OR PHYS 152/L: ELECTRICITY & MAGNETISM W/LAB	YES	YES	YES	YES

**\* Notes on Electives:**

CHEM 110, 120, 130, 399, 495, and 497 may not be used to satisfy departmental major requirements

CHEM 399R / 499R do not count towards the elective for BA majors

ECS 490 (ORDER) does count towards the elective for the BS major but not for the BA major

\*\* BIO 141 is only required as a pre-req for CHEM 301

\*\*\*\*ACS certification requires completion of all BS degree requirements. In addition, 4 elective hours must be in lecture courses at the 301 level or higher, and students must complete CHEM 355L:

Inorganic Lab as well as 40 additional hours of laboratory work (either through lab based course electives or research).