Bachelor of Science in Chemistry Concentration in Materials Chemistry

Chemistry (CHEM) General Chemistry lecture and lab Organic Chemistry lecture and lab Quantitative Chemical Analysis Physical Chemistry lecture and lab Prop. and Bonding of Inorganic Compounds Inorganic Preparations and Techniques Modern Polymer Chemistry	□ 211 (3) □ 313 (3) □ 321 (4) □ 331 (3) □ 441 (3) □ 445 (2) □ 472 (3)	□ 213 (1) □ 315(2) □ 336 (2)	□ 212 (3) □ 314 (3) □ 332 (3)	□ 214 (1) (s □ 318 (2) □ 337 (2)	satisfies Natural Science requirement)
Electives- 12 credits (choose from the following):					
Synthetic/Mech. Organic Chemistry Instrumental Methods of Chemical Analysis Instrumental Methods of Chemical Analysis Lab Solid State Chemistry Fundamentals of Nanoscience and Nanomaterials Materials Science	□ CHEM 413 (3) □ CHEM 422 (3) □ CHEM 423 (2) □ CHEM 471 (3) □ CHEM 480 (3) □ ME 313 (3)		*General Biochemistry I Biochemistry Lab *Biomaterials Research		□ CHEM 463 (4) □ CHEM 465 (2) □ BENG 240 (3) □ CHEM 355 or 451 (3)
			*These courses require BIOL 213 as a prerequisite.		
Mathematics (MATH) Analytic Geometry and Calculus	□ 113 -or-	123-124 (4)	□ 114 (4)	□ 213 (3) (s	atisfies Quant. Reasoning req.)
Physics (PHYS)					
University Physics	□ 160 (3)	□ 260 (3)			
University Physics Lab	□ 161 (1)	□ 261 (1)			
Mason Core (approved courses are listed in the University Catalog)					
Written Communication	□ ENGH 101 (3)		□ ENGH 302	(3)	
Oral Communication	□ COMM 100 or 101 (3)				
Western Civilization/World History	□ HIST 100	or 125 (3)			
Information Technology	<u>(3)</u>				
Literature Fine Arts	□(3) □(3)				
Social and Behavioral Sciences	□ (3)				
Global Understanding	(3)				
Synthesis	(3)				
General Electives from any area except PRLS/PHED ()					

TOTAL CREDITS REQUIRED: 120 Minimum (of which 45 must be upper-division ≥ 300 level); overall GPA ≥ 2.00; major requirements GPA ≥ 2.30; maximum of two courses of CHEM with a "D" grade. All CHEM prerequisite courses require a grade of C or better. See the "Prerequisites for CHEM Courses" document for a complete list.

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