

Bachelor of Science in Chemistry Concentration in Materials Chemistry

Chemistry (CHEM)

General Chemistry lecture and lab	<input type="checkbox"/> 211 (3)	<input type="checkbox"/> 213 (1)	<input type="checkbox"/> 212 (3)	<input type="checkbox"/> 214 (1) (satisfies Natural Science requirement)
Organic Chemistry lecture and lab	<input type="checkbox"/> 313 (3)	<input type="checkbox"/> 315(2)	<input type="checkbox"/> 314 (3)	<input type="checkbox"/> 318 (2)
Quantitative Chemical Analysis	<input type="checkbox"/> 321 (4)			
Physical Chemistry lecture and lab	<input type="checkbox"/> 331 (3)	<input type="checkbox"/> 336 (2)	<input type="checkbox"/> 332 (3)	<input type="checkbox"/> 337 (2)
Prop. and Bonding of Inorganic Compounds	<input type="checkbox"/> 441 (3)			
Inorganic Preparations and Techniques	<input type="checkbox"/> 445 (2)			
Modern Polymer Chemistry	<input type="checkbox"/> 472 (3)			

Electives- 12 credits (choose from the following):

Synthetic/Mech. Organic Chemistry	<input type="checkbox"/> CHEM 413 (3)	*General Biochemistry I	<input type="checkbox"/> CHEM 463 (4)
Instrumental Methods of Chemical Analysis	<input type="checkbox"/> CHEM 422 (3)	Biochemistry Lab	<input type="checkbox"/> CHEM 465 (2)
Instrumental Methods of Chemical Analysis Lab	<input type="checkbox"/> CHEM 423 (2)	*Biomaterials	<input type="checkbox"/> BENG 240 (3)
Solid State Chemistry	<input type="checkbox"/> CHEM 471 (3)	Research	<input type="checkbox"/> CHEM 355 or 451 (3)
Fundamentals of Nanoscience and Nanomaterials	<input type="checkbox"/> CHEM 480 (3)		
Materials Science	<input type="checkbox"/> ME 313 (3)		

*These courses require BIOL 213 as a prerequisite.

Mathematics (MATH)

Analytic Geometry and Calculus	<input type="checkbox"/> 113 -or- 123-124 (4)	<input type="checkbox"/> 114 (4)	<input type="checkbox"/> 213 (3) (satisfies Quant. Reasoning req.)
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Physics (PHYS)

University Physics	<input type="checkbox"/> 160 (3)	<input type="checkbox"/> 260 (3)
University Physics Lab	<input type="checkbox"/> 161 (1)	<input type="checkbox"/> 261 (1)

Mason Core (approved courses are listed in the University Catalog)

Written Communication	<input type="checkbox"/> ENGH 101 (3) -and- <input type="checkbox"/> ENGH 302 (3)
Oral Communication	<input type="checkbox"/> COMM 100 -or- 101 (3)
Global History	<input type="checkbox"/> HIST 125 (3)
Information Technology and Computing	<input type="checkbox"/> ____ (3)
Arts	<input type="checkbox"/> ____ (3)
Global Contexts	<input type="checkbox"/> ____ (3)
Literature	<input type="checkbox"/> ____ (3)
Social and Behavioral Sciences	<input type="checkbox"/> ____ (3)
Mason Apex	<input type="checkbox"/> ____ (3)

General Electives from any area except PRLS/PHED ☐ ____ ()

TOTAL CREDITS REQUIRED: 120 Minimum (of which 45 must be upper-division \geq 300 level); overall GPA \geq 2.00; major requirements GPA \geq 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.

Effective Fall 2021

Revised 4/2021