

# MATERIALS SCIENCE MINOR

Course	Title
<b>Program Courses (6 units)</b>	
MAT_SCI 201-0 or MAT_SCI 301-0	Introduction to Materials Science and Engineering Principles
MAT_SCI 315-0	Phase Equilibria & Diffusion of Materials
MAT_SCI 316-1	Microstructural Dynamics
MAT_SCI 316-2	Microstructural Dynamics
2 other 300-level materials science courses <sup>1</sup>	
<b>Foundations in Mathematics and Science (units depend on chemistry and mathematics sequences taken)</b>	
MATH 220-1 & MATH 220-2 or MATH 218-1 & MATH 218-2 & MATH 218-3	Single-Variable Differential Calculus and Single-Variable Integral Calculus Single-Variable Calculus with Precalculus and Single-Variable Calculus with Precalculus and Single-Variable Calculus with Precalculus
MATH 230-1 & MATH 230-2	Multivariable Differential Calculus and Multivariable Integral Calculus (or equivalent) <sup>2</sup>
CHEM 110-0 & CHEM 131-0 & CHEM 132-0 or CHEM 151-0 & CHEM 152-0 or CHEM 171-0 & CHEM 172-0	Quantitative Problem Solving in Chemistry and Fundamentals of Chemistry I and Fundamentals of Chemistry II General Chemistry I and General Chemistry II Advanced General Inorganic Chemistry and Advanced General Physical Chemistry
1 course in thermodynamics:	
MAT_SCI 314-0 or CHEM 342-1 or PHYSICS 332-0	Thermodynamics of Materials Thermodynamics Statistical Mechanics

<sup>1</sup> Excluding MAT\_SCI 394-0 Honors Project in Materials Science, MAT\_SCI 396-1 Senior Project in Materials Science and Engineering, MAT\_SCI 396-2 Senior Project in Materials Science and Engineering, MAT\_SCI 399-0 Projects; MAT\_SCI 395-0 Special Topics in Materials Science and Engineering may count only with permission of the director of undergraduate studies.

<sup>2</sup> e.g., MATH 290-2 MENU: Linear Algebra and Multivariable Calculus, MATH 290-3 MENU: Linear Algebra and Multivariable Calculus or MATH 291-2 MENU: Intensive Linear Algebra and Multivariable Calculus, MATH 291-3 MENU: Intensive Linear Algebra and Multivariable Calculus.