

MATERIALS SCIENCE STUDIES (DIV III)

Advisory Committee: Professors: D. AALBERTS*, P. KARABINOS, D. LYNCH, L. PARK*, J. STRAIT. Associate Professors: S. GOH.

Materials Science is an interdisciplinary field which combines microscopic physics and chemistry in order to understand and control the properties of materials such as plastics, semiconductors, metals, liquid crystals, and biomaterials. Williams students with an interest in the properties of materials or in pursuing careers in materials science or a variety of engineering disciplines would benefit from following the courses in this program.

Core Course in Materials Science

CHEM 336 Materials Chemistry

Related Courses

BIOL 101 The Cell

CHEM 155 Principles of Modern Chemistry

CHEM 156 Organic Chemistry: Introductory Level

CHEM 251 Organic Chemistry: Intermediate Level

CHEM 255 Organic Chemistry: Intermediate Level--Special Laboratory Section

CHEM 256 Foundations of Modern Chemical Science

CHEM 335 Inorganic/Organometallic Chemistry

CHEM 336 Materials Chemistry

CHEM 348 Polymer Chemistry

CHEM 361 Physical Chemistry: Structure and Dynamics

CHEM 364/ENVI 364 Instrumental Methods of Analysis

CHEM 366 Physical Chemistry: Thermodynamics

GEOS 202 Mineralogy MATH 209 Differential Equations

PHYS 201 Electricity and Magnetism

PHYS 202 Vibrations, Waves and Optics

PHYS 210/MATH 210 Mathematical Methods for Scientists

PHYS 301 Quantum Physics

PHYS 302 Stat Mechanics & Thermodynamics

PHYS 405 Electromagnetic Theory

PHYS 411 Classical Mechanics