

The information presented here is as of 7/29/2011.

MATERIALS SCIENCE STUDIES

Advisory Committee: Professors: AALBERTS, S. BOLTON, KARABINOS, D. LYNCH*, L. PARK, STRAIT**. Associate Professors: S. GOH**. Assistant Professor: LOPES.

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 016 Glass and Glassblowing
CHEM 156 Organic Chemistry: Introductory Level
and CHEM 251 Organic Chemistry: Intermediate Level
CHEM 255 Organic Chemistry: Intermediate Level –Special Laboratory Section
CHEM 155 Current Topics in Chemistry
or CHEM 256 Foundations of Modern Chemical Science
CHEM 335 Inorganic/Organometallic Chemistry
CHEM 348 Polymer Chemistry
CHEM 361 Physical Chemistry: Structure and Dynamics
CHEM/ENVI 364 Instrumental Methods of Analysis
CHEM 366 Physical Chemistry: Thermodynamics
GEOS 202 Mineralogy and Geochemistry
MATH 209 Differential Equations and Vector Calculus
MATH 315 Groups and Characters
PHYS 014 Electronics
PHYS 201 Electricity and Magnetism
PHYS 202 Waves and Optics
PHYS/MATH 210 Mathematical Methods for Scientists
PHYS 301 Quantum Physics
PHYS 302 Statistical Physics
PHYS 405T Electromagnetic Theory
PHYS 411T Classical Mechanics