Electronic, Optical, and Magnetic Materials (EOM)

Minor in Electronic, Optical, and Magnetic Materials
Department of Materials Science and Engineering, College of Engineering and Applied Sciences
CHAIRPERSON: Michael Dudley, Materials Science and Engineering  UNDERGRADUATE PROGRAM DIRECTOR: Gary P. Halada
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1. ESE 218 Digital Systems Design and ESE 380 Embedded Microprocessor Systems Design I
or ESE 312 Microwave Electronics and ESE 315 Control System Design

2. Five courses chosen from:
   ESG 201 Engineering Responses to Society
   ESE 319 Introduction to Electromagnetic Fields and Waves
   ESE 321 Electromagnetic Waves and Wireless Communication
   ESM 325 Diffraction Techniques and Structure of Solids
   ESM 336 Electronic Materials
   ESM 369 Polymers
   ESM 488 Cooperative Industrial Practice
   ESM 499 Research in Materials

Requirements for all other students:
1. ESE 218 Digital Systems Design and ESE 380 Embedded Microprocessor Systems Design I
or ESE 312 Microwave Electronics and ESE 315 Control System Design
2. ESG 100 Introduction to Engineering Science
or ESE 123 Introduction to Electrical and Computer Engineering
or MEC 101 and 102 Engineering Computing and Problem Solving I, II
3. ESG 201 Engineering Responses to Society

4. Three courses chosen from:
   ESE 319 Introduction to Electromagnetic Fields and Waves
   ESE 321 Electromagnetic Waves and Wireless Communication
   ESM 325 Diffraction Techniques and Structure of Solids
   ESM 336 Electronic Materials
   ESM 369 Polymers
   ESM 488 Cooperative Industrial Practice
   or ESM 499 Research in Materials

Completion of the minor requires 18 to 24 credits.

Requirements for students majoring in Engineering Science (ESG):

Accurate as of Fall 2005