Optics (OPT)

Minor in Optics
Department of Physics and Astronomy, College of Arts and Sciences

Required for the Minor in Optics (OPT)

All courses offered for the minor must be passed with a letter grade of C or higher.
Completion of the minor requires 21 credits.

A. Basic courses:
   - PHY 132/134 or 142 Classical Physics II
   - PHY 251/252 Modern Physics and Laboratory
   - or ESG 281 An Engineering Introduction to Solid State
   - PHY 300 Waves and Optics
   - PHY 301 Electromagnetic Theory
   - or ESE 319 Introduction to Electromagnetic Fields and Waves

B. At least two of the following:
   - ESE 321 Electromagnetic Waves and Fiber Optics
   - ESE 362 Optoelectronic Devices and Optical Imaging Techniques
   - ESE 441 Engineering Design I*
   - ESE 499 Research in Electrical Sciences*
   - ESG 441 Engineering Science Design IV*
   - ESM 499 Research in Materials Science*
   - MEC 342* Introduction to Experimental Stress
   - MEC 441 Mechanical Engineering Design II*
   - MEC 499 Research in Mechanical Engineering*

* These courses may be used if the research project is in optics. Each such course must be taken for three credits and the student must obtain written approval of the Department of Physics and Astronomy for his or her research proposal before starting research.