Physics

PHYS 402  Light  credit: 0 TO 4 hours.
Wave kinematics; geometrical optics: basic concepts, ray-tracing and matrix formalism, Gaussian imaging by thick lenses, stops, apertures, and intensity relations; interference; interference spectroscopy and coherence; diffraction: Fresnel-Kirchhoff formulation, Fraunhofer case, Fresnel case, and holography; polarized light. 4 undergraduate hours. 3 or 4 graduate hours (3 hours without lab).
Prerequisite: MATH 285; PHYS 102 or PHYS 214.

CRN | Type   | Section | Time             | Days | Location                              | Instructor |
----|--------|---------|------------------|------|---------------------------------------|------------|
36694| Lecture| AA      | 11:00 AM - 12:20 PM | TR   | 158 - Loomis Laboratory              | Nayfeh, M  |
44817| Lecture| BB      | 11:00 AM - 12:20 PM | TR   | 158 - Loomis Laboratory              | Nayfeh, M  |
36707| Laboratory| BL1 | 01:00 PM - 03:50 PM | R    | 6107 - Engineering Sciences Building | Sivil, D   |
36714| Laboratory| BL3 | 01:00 PM - 03:50 PM | F    | 6107 - Engineering Sciences Building | Sivil, D   |