

Course Detail Information

Course Number:	1051-313
Course Name:	INTERACTIONS BETWEEN LIGHT AND MATTER
Course Title:	INTERACT BTWN LIGHT&MAT
Course Description:	Fundamental aspects of the interaction of electromagnetic radiation and materials. The course is designed to provide students with an understanding of the physical mechanisms underlying instruments used to detect, measure, and image electromagnetic energy (CCDs, silver halide film, OPC, vidicon, etc.). Basic concepts of quantum theory, atomic structure and the particle/wave duality of light and matter are introduced. Electronic transitions in materials and the physical and chemical results of light absorption are explored, with practical examples in image detection. Applications in detector sensitivity, spectroscopy, human vision, and colorimetry will be touched on. (1016-283, 1017-314) Class 4, Credit 4 (F)
Credit Hours:	4
Course Notes:	
Section Types Offered:	Lecture
Replaces Course:	2051-313
Future Term Offerings:	<i>No future term offerings currently available.</i>