

## Appendix 2: Optics Technical Electives

Three technical electives are required. *Suggested* technical elective themes are listed in blue in the first row of the table below. **The combinations listed below are not a mandatory sequence of technical electives; they serve as a starting point for students considering technical elective combinations.** Classes in **green** are Optics core courses that pair up nicely with suggested electives. Choose classes in the vertical column below the technical elective theme you wish to explore or consult your adviser for additional class themes and/or combinations.

**Effective Spring 2015, any 200-level engineering course may be counted as a technical elective with faculty adviser approval. This approval must be documented via email or on the semester course planning form.**

Biomedical Optics	Optics + Math	Lens Design	Photonic Materials/ Devices	Optics & Physics	Lab Special	Lasers and Photonics	Optomechanics
OPT 241	OPT 287	OPT 241	OPT 225	OPT 223	OPT 204	OPT 225	OPT 242
OPT 248	MTH 2XX	OPT 243	ME 280	PHY 235	OPT 253	ECE 235	ME 226
OPT 276	MTH 2XX	OPT 244	OPT 421*	PHY 227	OPT 257	OPT 465*	OPT 232
PHY 253	MTH 2XX	OPT 246	ECE 235	PHY 246	PHY 243W	OPT 468*	OPT 432*
BME 270		OPT 247	OPT 468*				
		OPT 444*					

\*For students pursuing graduate studies at The Institute, these courses cannot count for both the Bachelor's and Master's degrees in Optics

Class	Title
OPT 232	Opto-Mechanics
OPT 243	Optical Fabrication and Testing
OPT 244	Lens Design
OPT 246	Thin Film Coatings
OPT 247	Advanced Optical Coatings
OPT 248	Vision and the Eye
OPT 253	Quantum Optics Lab
OPT 257	Advanced Senior Laboratory
OPT 276	Biomedical Optics
OPT 421	Optical Properties of Materials
OPT 432	Intro to Optomechanics
OPT 444	Lens Design
OPT 465	Laser Systems
OPT 468	Waveguide Optoelectronic Devices
BME 270	Biomedical Microscopy
ECE 235	Intro to Optoelectronics
ME 226	Intro to Solid Mechanics
ME 280	Intro to Material Science
MTH 2XX	Any upper division math course
PHY 227	Thermo and Stat Mechanics
PHY 235	Advanced Classical Mechanics
PHY 243W	Advanced Lab Topics
PHY 246	Quantum Theory
PHY 253	Biological Physics