# EXTREME ULTRAVIOLET AND OPTICAL SCIENCE AND TECHNOLOGY GRADUATE INTERDISCIPLINARY STUDIES PROGRAM

## Requirements
## Effective Fall 2008

**Additional coursework may be required due to prerequisites.**

| Code | Title | Credits |
|---|---|---|
| **Core Courses** | | |
| ECE 504 | Physical Optics | 3 |
| ECE 650 | Extreme Ultraviolet and Soft X-Ray Radiation | 3 |
| **Elective Courses** | | |
| Select 9 credits from the following: | | 9 |
| BC 511 | Structural Biology I | |
| BC 565 | Molecular Regulation of Cell Function | |
| BC 611 | Structural Biology II | |
| CHEM 532 | Advanced Chemical Analysis II | |
| CHEM 563A | Physical Methods in Inorganic Chemistry: Group Theory | |
| CHEM 571A | Quantum Chemistry: Foundations | |
| CHEM 571B | Quantum Chemistry: Electronic Structure | |
| CHEM 773 | Atomic and Molecular Spectroscopy | |
| ECE 503 | Ultrafast Optics | |
| ECE 505 | Nanostructures Fundamentals and Applications | |
| ECE 506 | Optical Interferometry and Laser Metrology | |
| ECE 507 | Plasma Physics and Applications | |
| ECE 546 | Laser Fundamentals and Devices | |
| MATH 560 | Linear Algebra | |
| PH 451 | Introductory Quantum Mechanics I | |
| PH 452 | Introductory Quantum Mechanics II | |
| PH 521 | Introduction to Lasers | |
| PH 522 | Introductory Laser Laboratory | |
| PH 572 | Mathematical Methods for Physics II | |
| PH 641 | Electromagnetism I | |
| PH 642 | Electromagnetism II | |
| PH 651 | Quantum Mechanics I | |
| PH 652 | Quantum Mechanics II | |
| **Program Total Credits:** | | **15** |