# Area Courses
## Electromagnetics, Optics, Photonics

### Fundamental Courses
- **EE 470** Electromagnetics II
- **EE 471** Applied Quantum Mechanics for Engineers
  or
- **EE 539** Engineering Quantum Mechanics
- **EE 506** Semiconductor Physics

### Optics and Photonics
- **EE 474** Introduction to Photonics
- **EE 573ab** Antenna Analysis
- **EE 578** Reflector Antennas
- **EE 529** Optics
- **EE 531** Nonlinear Optics
- **EE 540** Introduction to Quantum Electronics
- **EE 551** Principles of Radar
- **EE 558** Optical Fiber Communication Systems
- **EE 559** Optical Information Processing
- **EE 566** Optical Information Processing
- **EE 571ab** Microwave Networks
- **EE 575** Introduction to Quantum Mechanics
- **EE 576** Optical Materials, Instruments and Devices
- **EE 577** Introduction to Quantum Electronics

### Applications
- **EE 529** Optics
- **EE 531** Nonlinear Optics
- **EE 540** Introduction to Quantum Electronics
- **EE 551** Principles of Radar
- **EE 558** Optical Fiber Communication Systems
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**Legend**
- EE 000 Course Title
- Prerequisite Courses
- Corequisite Courses

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This chart shows course relationships. Please check the University Catalogue for specific course details including any recommended prepatory courses and Degree Requirements.