### 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 471** Applied Quantum Mechanics for Engineers
- **EE 530** Optical Materials, Instruments and Devices
- **EE 540** Introduction to Quantum Electronics
- **EE 509** Optics
- **EE 531** Nonlinear Optics
- **EE 506** Semiconductor Physics
- **EE 530** Optical Materials, Instruments and Devices
- **EE 540** Introduction to Quantum Electronics
- **EE 529** Advanced Geometrical Optics

### Experimental Methods

- **EE 599** Optics Laboratory

### Applications

- **EE 551** Principles of Radar
- **EE 558** Optical Fiber Communication Systems
- **EE 566** Optical Information Processing
- **EE 571ab** Microwave Networks
- **EE 573ab** Antenna Analysis
- **EE 578** Reflector Antennas

### 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 preparatory courses and Degree Requirements.

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