

## Area Courses

# Electromagnetics, Optics, Photonics

### Fundamental Courses

**EE 470** Electromagnetics II

3 units

**EE 471** Applied Quantum Mechanics for Engineers

4 units

EE 470

or

**EE 539** Engineering Quantum Mechanics

4 units

**EE 506** Semiconductor Physics

4 units

EE 471, MASC 501

### Optics and Photonics

**EE 474** Introduction to Photonics

3 units

**EE 529** Optics

4 units

EE 470

**EE 530** Optical Materials, Instruments and Devices

3 units

EE 529

**EE 531** Nonlinear Optics

3 units

EE 470

**EE 540** Introduction to Quantum Electronics

4 units

EE 470

**EE 642** Advanced Geometrical Optics

3 units

EE 529

### Applications

**EE 551** Principles of Radar

3 units

EE 470

**EE 558** Optical Fiber Communication Systems

3 units

**EE 566** Optical Information Processing

3 units

EE 483

**EE 571ab** Microwave Networks

a:3 units, b:3 units

EE 470

**EE 573ab** Antenna Analysis

a:3 units, b:3 units

EE 470

**EE 578** Reflector Antennas

3 units

EE 470

### Legend

#### Grouping

EE 000 Course Title

Course Units

Recommended Prep.

Prerequisite Courses

Corequisite Courses

This chart shows course relationships

Please check the University Catalogue for specific course details including any recommended preparatory courses and Degree Requirements