USC Viterbi
School of Engineering
Ming Hsieh Department of Electrical Engineering

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 529 Optics
EE 470

EE 530 Optical Materials, Instruments and Devices
EE 529

EE 531 Nonlinear Optics
EE 470

EE 540 Introduction to Quantum Electronics
EE 470

EE 642 Advanced Geometrical Optics
EE 529

Experimental Methods

EE 599 Optics Laboratory

Applications

EE 551 Principles of Radar
EE 470

EE 558 Optical Fiber Communication Systems

EE 566 Optical Information Processing

EE 571ab Microwave Networks
EE 470

EE 573ab Antenna Analysis
EE 470

EE 578 Reflector Antennas
EE 470

Legend

Grouping

EE ooo Course Title
Prerequisite Courses
Corequisite Courses

This chart shows course relationships

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

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