

# Photonic Science & Engineering 2014-2015 Suggested Plan\*

www.creol.ucf.edu  
undergrad@creol.ucf.edu

## Major Acceptance Requirements (C or better in these courses)

**CHM 2045C\*\***  
Chem Fundamentals I (4)  
PR: Chem Placement Test

**CHS 1440\*\***  
Principles of Chemistry (4)  
PR: 1 Yr HS Chemistry

**MAC 2311C\*\***  
Calculus I (4)

**MAC1140C & MAC1114**  
C or better  
or appropriate score on  
math placement exam

**MAC 2312\*\***  
Calculus II (4)

**PHY 2048C\*\***  
Physics for  
Engineers I (4)

### Year 2 Fall

**PHY 2049C\*\***  
Physics for  
Engineers II (4)

**EGN 3211**  
Engineering  
Analysis (3)

**MAC 2313\*\***  
Calculus III (4)

### Year 2 Spring

**PHY 3101**  
Physics for  
Engineers III (3)

**EEL 3004C**  
Electrical  
Networks (3)

**MAP 2302\*\***  
Differential  
Equations (3)

**EGN 3310**  
Engineering  
Statics (3)

### Year 2 Summer

**STA 3032**  
Probability /  
Statistics (3)

**EEE 3350**  
Semiconductor  
Devices 1 (3)

### Year 3 Fall

**EEL 3470**  
Electromagnetic  
Fields (3)

**EGN 3321**  
Engineering  
Dynamics (3)

**EGN 3358**  
Thermo Fluids (3)

**EEL 3123C**  
Networks &  
Systems (4)

**EEE 3307C**  
Electronics I  
(4)

**OSE 3052**  
Introduction to  
Photonics (3)

**OSE 3052L**  
(1)

### Year 3 Spring

**OSE 4410**  
Optoelectronics (3)

**OSE 4410L**  
(1)

**OSE 3053**  
EM Waves for  
Photonics (3)

**OSE 4520**  
Laser Engineering  
(3)

**OSE 4520L**  
(1)

### Year 4 Fall

**OSE 4951**  
Senior Design I  
(3)

**OSE 4470**  
Fiber-Optic  
Commun (3)

**OSE 4470L**  
(1)

**OSE 4930**  
Frontiers of Optics  
& Photonics  
(2)

**OSE 4952**  
Senior Design II  
(3)

**OSE 4830**  
Imaging and  
Display (3)

**OSE 4830L**  
(1)

### Year 4 Spring

## KEY

PREREQUISITE: →

COREQUISITE: ⇌

**TAKE 1 OF THESE 2**

Pre major requirements

Senior Standing Required

CRITICAL PATH COURSES

Lab courses

ENGR MAJOR COURSES

\*\* Course is a state Common Prerequisite; a grade of C (2.0) or better required. Lab courses are required for PSE majors

## FTIC requirements

**EGS 1006C**  
Intro to Engineering  
(1)

**EGN 1007C**  
Engr. Concepts and Methods  
(1)

See Advisor  
Tech Electives  
(9)

## Transfer requirement

See Advisor  
Tech Electives  
(11)

PSE Majors must take these courses concurrently:  
OSE 3052/OSE 3052L  
OSE 4410/OSE 4410L  
OSE 4470/OSE 4470L  
OSE 4520/OSE 4520L  
OSE 4830/OSE 4830L

## Restricted Electives:

OSE4721 Biophotonics  
OSE4240 Optics & Photonics Dsgn  
OSE4720 Visual Optics  
OSE5312 Light Matter Int.  
EEL/PHY/Math 4XXX Courses - with approval from Advisor

\*Flowchart is a general plan. Meet with advisor for personalized plan. Gen. Ed. courses not listed.