

Photonic Science & Engineering

2015-2016 Suggested Plan*

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undergrad@creol.ucf.edu

Major Acceptance Requirements (C or better in these courses)

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

Or

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)

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

EGN 3211**
Engineering Analysis (3)

MAC 2313**
Calculus III (4)

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)

Or

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)

OSE 4930
Frontiers of Optics & Photonics (2)

OSE 4951
Senior Design I (3)

OSE 4470
Fiber-Optic Commun (3)

OSE 4470L (1)

OSE 4830
Imaging and Display (3)

OSE 4830L (1)

OSE 4952
Senior Design II (3)

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

RED BORDER: Course used for Major GPA Calc.

** 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
Restricted Electives (9)

Transfer requirement

See Advisor
Restricted 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 (3)
OSE4240 Optics & Phot. Dsgn (3)
OSE4720 Visual Optics (3)
OSE5312 Light Matter Int. (3)
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.

- Good Things to Know:**
- 2.25 Major GPA required for graduation
 - Register for courses early so you are not closed out.
 - Register for Critical Path Courses first.
 - Once you complete Major Acceptance Requirement Courses, change major to PSE in my.ucf.edu.
 - Check with advisor before selecting electives.

Scan to visit the PSE Website

