

Photonic Science & Engineering 2016-2017

Major Courses Flowchart*

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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)

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

OSE 3200
Geometric Optics
(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)

Year 4 Fall

OSE 4951
Senior Design I
(3)

OSE 4930
Frontiers of Optics
& Photonics
(2)

OSE 4470
Fiber-Optic
Commun (3)

OSE 4470L (1)

OSE 4830
Imaging and
Display (3)

OSE 4830L (1)

Year 4 Spring

OSE 4952
Senior Design II
(3)

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.

Lab courses are required for PSE majors.
** A grade of C (2.0) or better required.

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

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



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