

Photonic Science & Engineering 2013-2014

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Major Acceptance Requirements (C or better in these courses)

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

CHS 1440**
Chem for Engrs (4)
PR: 1 Yr HS Chemistry

MAC 2311C**
Calculus I (4)

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

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

MAC 2312**
Calculus II (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 3053
EM Waves for
Photonics (3)

OSE 4470
Fiber-Optic
Commun (3)

OSE 4470L
(1)

OSE 4520
Laser Engineering
(3)

OSE 4520L
(1)

Year 4 Fall

OSE 4410
Optoelectronics (3)

OSE 4410L
(1)

OSE 4930
Frontiers of
Photonics (2)

Year 4 Spring

OSE 4911
Senior Design I
(3)

OSE 4830
Imaging and
Display (3)

OSE 4830L
(1)

OSE 4912
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

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

FTIC requirements

EGN 1006
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