

Photonic Science & Engineering 2021-2022

Major Courses Flowchart*

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 or
CHM 1025 (2)
Or
CHS 1440**
Principles of Chemistry (4)
PR: 1 Yr HS Chemistry

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

MAC 2311C**
Calculus I (4)

MAC 2312**
Calculus II (4)

PHY 2048**
PHY 2048L**
Physics I Lecture
and Lab (3/1)

KEY

PREREQUISITE:

COREQUISITE:

Pre major
requirements

Senior
Standing
Required

CRITICAL
PATH
COURSES

Lab 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
+ EE/PSE Double Majors will be required to enroll
in EEL 4914+OSE4953 and EEL4915L+OSE4953
to satisfy Senior Design requirements.

Electives Requirement

12 CR are needed to satisfy the
restricted electives requirement.

Approved Restricted Electives:
Refer to myKnight Audit for full list

- EGS 1006C Intro. To Engineering (1)¹
- EGN 1007C Engr. Concepts and Methods (1)¹
- OSE3043 Analytical Methods for Optics (3) PR: MAP 2302
- OSE4721 Biophotonics (3) PR: OSE 3052
- OSE4240 Intro. to Opt. Design (3) PR: OSE 3052, OSE 3200
- OSE4720 Visual Optics (3) PR: OSE 3052, OSE 3200
- OSE 4953 Senior Design Double Major ECE (1)²
- EEE 3342C Digital Systems (3)
- EEL 3470 EM Fields (3)
- EGN 4931H Eng. Honors Seminar-Research (3)
- EMA 4413 Fundamentals of Electronic Materials
- MAP 4303 Ordinary Differential Equations II (3)
- MAP 4341 Partial Differential Equations (3)
- MAP 4371 Numerical Methods for Diff. Eq. (3)
- MAS 3105 Linear Algebra (4)
- MAS 5145 Adv. Linear Alg. and Matrix Theory (3)
- OSE 4912 Directed Independent Research (1)
- OSE 4903H Honors Directed Reading (3)
- OSE 4970H Honors Thesis (3)
- PHY 4604 Wave Mechanics I
- PHY 4605 Wave Mechanics II
- PHZ 3113 Introduction to Theoretical Methods

Selected EEL/PHY/Math 4XXX Courses

¹ EGS 1006C and EGN 1007C are open only to students
with less than 30 earned credit hours.
² OSE 4953 is open only to dual major ECE-PSE students
and must be taken with EEL4914 and EEL4915L. 1 credit
hour per semester.

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



Year 2 Fall

Year 2 Spring

Year 2 Summer

Year 3 Fall

Year 3 Spring

Year 4 Fall

Year 4 Spring

PSE Advising

The Photonic Science and Engineering
Advising Office is located in CREOL,
Building 53, Room 108B. Email
undergrad@creol.ucf.edu for
questions about the major.

*Flowchart is a suggested plan.
Meet with advisor for personalized
plan. Gen. Ed. courses not listed.
In the event of an error, UCF Catalog
takes precedence.