

Photonic Science & Engineering 2020-2021

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

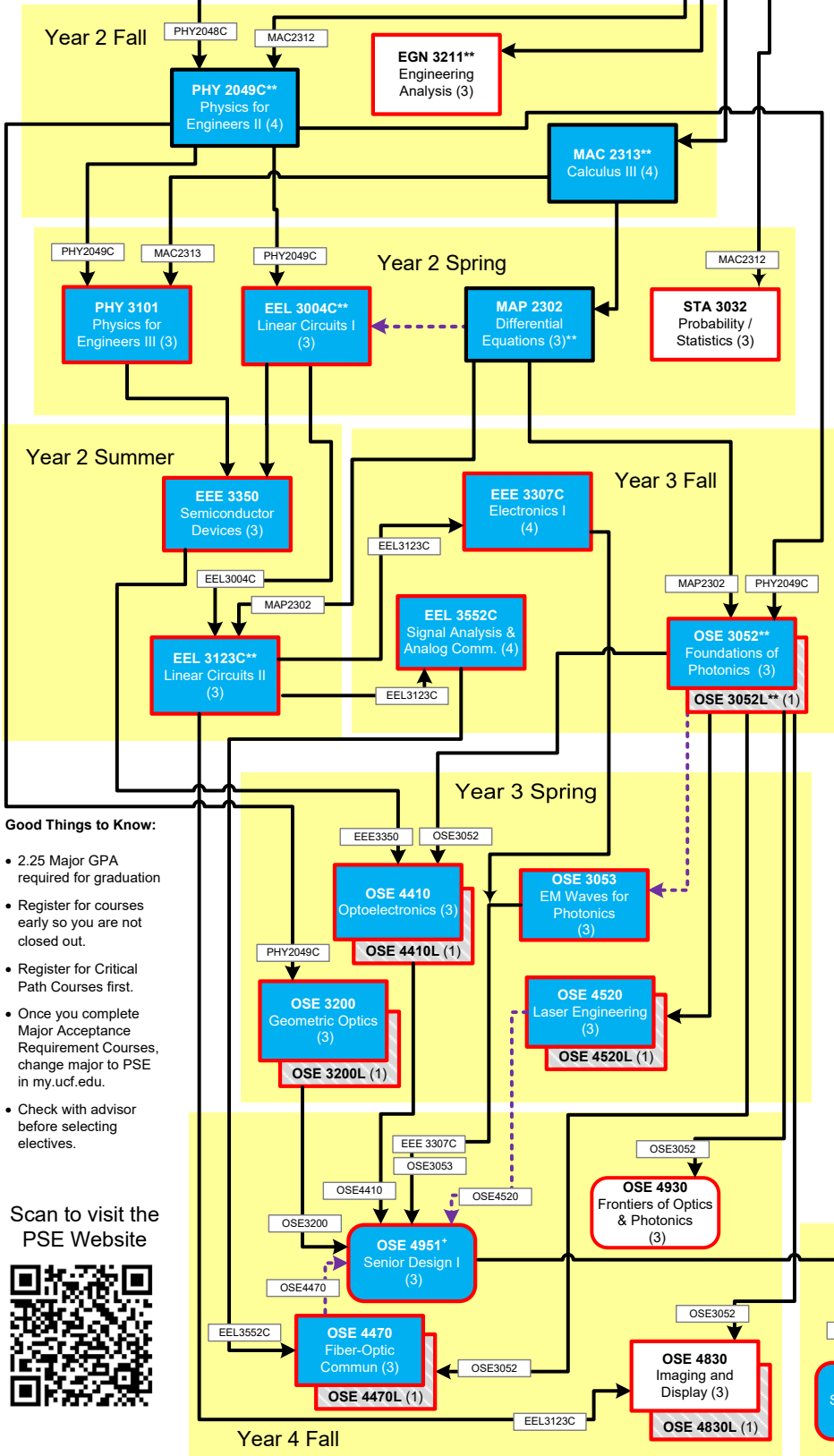
CHS 1440**
Principles of Chemistry (4)
PR: 1 Yr HS Chemistry

MAC 2311C**
Calculus I (4)

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

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

MAC 2312**
Calculus II (4)



KEY

PREREQUISITE: (solid arrow)
COREQUISITE: (dashed arrow)

CRITICAL PATH COURSES: (blue box)
Lab courses: (hatched box)
Senior Standing Required: (grey box)
RED BORDER: Course used for Major GPA Calc. (red border)

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. EGS 1006C and EGN 1007C as well as OSE 4953 will reduce the total by 1 CR for each class completed.

See Advisor Restricted Electives 12CR – (Classes taken below)

EGS 1006C Intro to Engineering (1)	EGN 1007C Engr. Concepts and Methods (1)
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OSE 4953
Senior Design Double Major ECE (2) (1 CR each for SD I and SD II)

Approved Restricted Electives:

Refer to myKnight Audit for full list

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
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

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.

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. In the event of an error, UCF Catalog takes precedence.