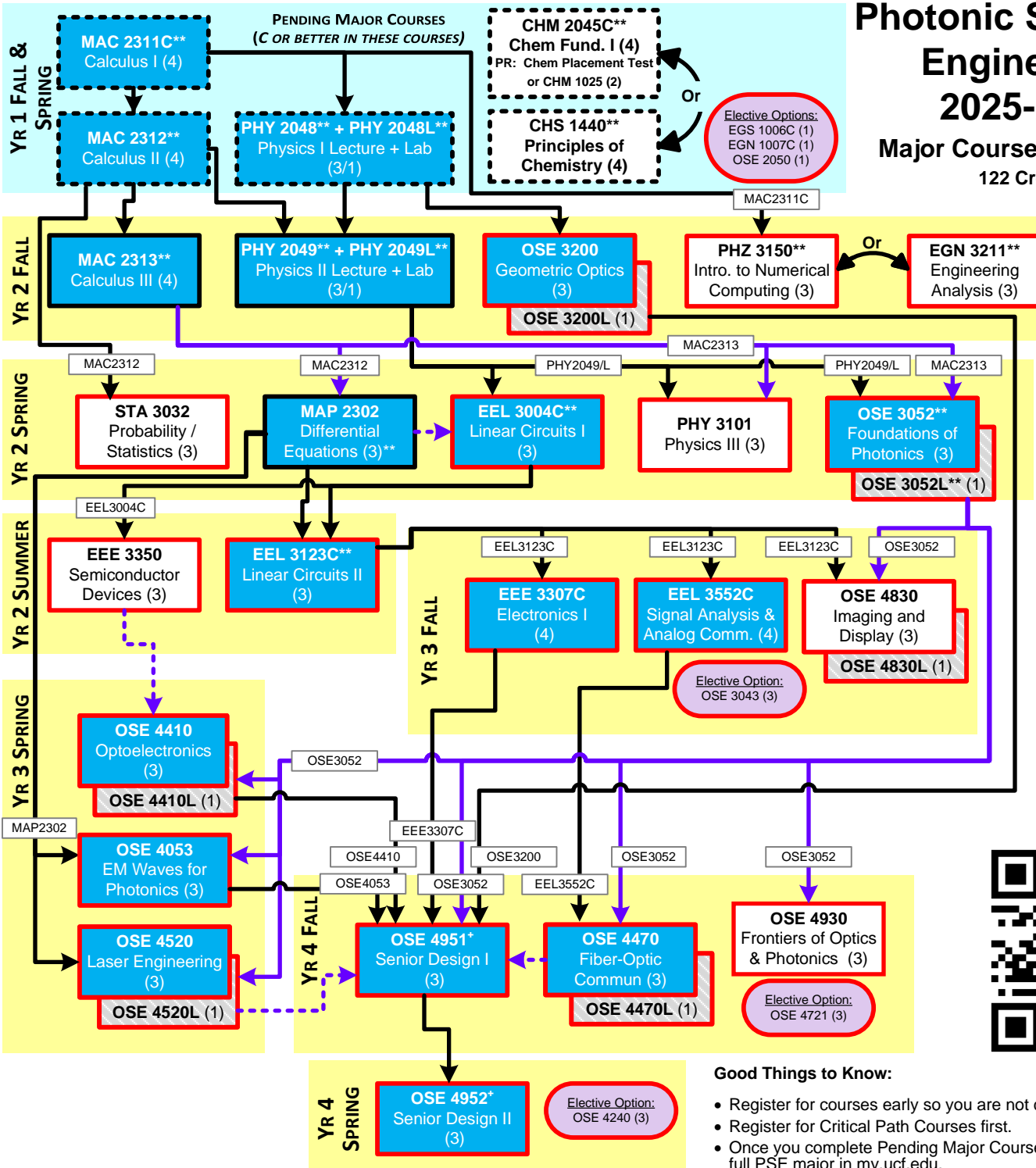


Photonic Science & Engineering 2025-2026 Major Courses Flowchart* 122 Credits



KEY

- PREREQUISITE: (solid arrow)
- COREQUISITE: (dashed arrow)
- CRITICAL PATH COURSES (blue box)
- Pre major requirements (dashed box)
- Lab courses (hatched box)
- Red Outlined Courses Part of Major GPA (red box)
- Restricted Elective Options (red circle)



Good Things to Know:

- Register for courses early so you are not closed out.
- Register for Critical Path Courses first.
- Once you complete Pending Major Courses, change major to full PSE major in my.ucf.edu.

Common Restricted Elective Options

12 CR are needed to satisfy the restricted electives requirement. Electives shown on flowchart represent semesters in which courses are offered. Refer to myKnight Audit for all electives and catalog for prerequisites.

- EGS 1006C Intro. To Engineering (1)¹
- EGN 1007C Engr. Concepts and Methods (1)¹
- OSE 2050 Intro. to Photonic Engineering Design (1)²
- OSE3043 Analytical Methods for Optics (3) PR: MAC 2313
- OSE4721 Biophotonics (3) PR: OSE 3052
- OSE4240 Intro. to Opt. Design (3) PR: OSE 3052, OSE 3200
- OSE 4953 Senior Design Double Major ECE (1)³
- EEE 3342C Digital Systems (3)
- EEL 3470 EM Fields (3)
- EMA 4413 Fundamentals of Electronic Materials (3)

- MAS 3105 Matrix and Linear Algebra (4) PR: MAC 2312
- OSE 4912 Directed Independent Research (1)
- OSE 4903H Honors Directed Reading (3)
- OSE 4970H Honors Thesis (3)
- PHY 3650 Quantum Information Processing (3)
- PHY 4604 Wave Mechanics I (3)
- PHY 4605 Wave Mechanics II (3)
- PHZ 3113 Introduction to Theoretical Methods (3)
- 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 2050 is open to students who have not completed MAP 2302 Differential Equations

³ OSE 4953 is open only to dual major ECE-PSE students and must be taken with EEL4914 and EEL4915L. 1 credit hour per semester.

Lab courses are required for PSE majors. 2.25 Major GPA required for graduation.

** 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.

*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.

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