Photonic Science & Major Acceptance Requirements (C or better in these courses) MAC1140C & **Engineering** CHM 2045C** MAC1114 Chem Fundamentals I (4) C or better or appropriate score on MAC 2311C* PR: Chem Placement Test or <u>Transfer:</u> EGS 1006C (1) EGS 1007C (1) 2024-2025 math place CHM 1025 (2) Or CHS 1440** PHY 2048** **Major Courses Flowchart*** FTIC: OSE 2050 (1) PHY 2048L** Principles of Chemistry (4) PR: 1 Yr HS Chemistry MAC 2312** www.creol.ucf.edu undergrad@creol.ucf.edu **KEY** Year 2 Fall MAC2312 PHY2048 PREREQUISITE: PHY2048L **CRITICAL PATH COREQUISITE:** PHZ 3150* PHY 2049 **OSE 3200** COURSES Or EGN 3211** MAC 2313* PHY 2049L** Intro. to Calculus III (4) Engineering Numerical Analysis (3) Computing (3) OSE 3200L (1) Pre major requirements ! Lab courses Restricted **RED BORDER:** PHY2049 PHY2049L PHY2049 **Elective** Course used for MAC2313 Year 2 Spring MAC2313 PHY2049L MAC2313 MAC2312 Major GPA Calc. **Options** Lab courses are required for PSE majors. **MAP 2302 OSE 3052 STA 3032** EEL 3004C** **PHY 3101** Linear Circuits Probability / Differentia Physics III (3) ** A grade of C (2.0) or better required Statistics (3) Equations (3) + EE/PSE Double Majors will be required to enroll OSE 3052L** (1) in EEL 4914+OSE4953 and EEL4915L+OSE4953 to satisfy Senior Design requirements. **Restricted Elective Options** Year 3 Fall Year 2 MAP2302 EEL3004C EEL3123C 12 CR are needed to satisfy the restricted electives requirement. Summer Electives shown on flowchart represent semesters in which courses are offered. **OSE 4830 EEE 3307C EEL 3123C*** Imaging and Linear Circuits II Refer to myKnight Audit for full list Display (3) EGS 1006C Intro. To Engineering $(1)^1$ EGN 1007C Engr. Concepts and Methods $(1)^1$ EEL3004C OSE 4830L (1) OSE 2050 Intro. to Photonic Engineering Design (1)² **EEE 3350** EEL3123C OSE3043 Analytical Methods for Optics (3) PR: MAC 2313 **EEL 3552C** Semiconductor OSE4721 Biophotonics (3) PR:OSE 3052 Devices (3) <u>Transfer:</u> DSE 3043 (3 OSE4240 Intro. to Opt. Design (3) PR:OSE 3052, OSE 3200 alog Comm. (4) OSE 4953 Senior Design Double Major ECE (1) EEE 3342C Digital Systems (3) EEL 3470 EM Fields (3) EGN 4931H Eng. Honors Seminar-Research (3) EMA 4413 Fundamentals of Electronic Materials (3) MAP 4303 Ordinary Differential Equations II (3) MAP 4341 Partial Differential Equations (3) Year 3 Spring MAP 4371 Numerical Methods for Diff. Eq. (3) Good Things to Know: MAS 3105 Matrix and Linear Algebra (4) PR: MAC 2312 OSE3052 OSE 4912 Directed Independent Research (1) • 2.25 Major GPA OSE 4903H Honors Directed Reading (3) FTIC/ OSE 4970H Honors Thesis (3) required for graduation OSE3052 Transfer: OSE 4240 (3) **OSE 4410** PHY 3650 Quantum Information Processing (3) Register for courses PHY 4604 Wave Mechanics I (3) OSE 4720 (3 early so you are not PHY 4605 Wave Mechanics II (3) closed out. PHZ 3113 Introduction to Theoretical Methods (3) OSE 4410L (1) · Register for Critical Selected EEL/PHY/Math 4XXX Courses Path Courses first. OSE3052 **OSE 4520** ¹ EGS 1006C and EGN 1007C are open only to students · Once you complete with less than 30 earned credit hours. Major Acceptance OSE 2050 is open to students who have not completed Requirement Courses. OSE 4520L (1) MAP 2302 Differential Equations change major to PSE OSE 4953 is open only to dual major ECE-PSE students in mv.ucf.edu. and must be taken with EEL4914 and EEL4915L. 1 credit · Check with advisor hour per semester. before selecting OSE3200 Year 4 Fall electives. EEE 3307C OSE3053 OSE4410 OSE4520 **PSE Advising** FTIC/ Scan to visit the The PSE Advising Office is SE 4721 (3 **PSE** Website located in CREOL. Room OSE 4951⁺ OSE3052 A213 or email at Senior Design | Year 4 undergrad@creol.ucf.edu OSE4470 **Spring OSE 4930** Frontiers of Optics FTIC/ *Flowchart is a sugggested OSE3052 EEL3552C **OSE 4470** & Photonics plan. Meet with advisor for <u>Transfer:</u> DSE 4240 (3) (3) OSE 4952* personalized plan. Gen. Ed. or OSE 4720 (3) Senior Design II courses not listed. In the event of an error. UCF OSE 4470L (1) OSE4951 Catalog takes precedence.