



# COLLEGE OF SCIENCE AND ENGINEERING

## BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING

### FOUR-YEAR PATHWAY

FOR Honors College Students

1 ST YEAR	FALL	SCHs	SPRING	SCHs
	FYS 1300 Freshman Year Seminar*	3	CHEM 2415 or BIOL 2454 Science with Lab	4
	ENGL 1313 English Comp & Literature	3	ENGL 1323 English Comp & Literature II	3
	ENSC 1411 Engineering and Cyber Projects I	4	ENSC 1412 Engineering and Cyber Projects II	4
	COSC 1351 Introduction to Computer Programming	3	COSC 1352 Intermediate Computer Programming	3
	MATH 1434/1034 Precalculus with Lab**	4	MATH 1451/1051 Calculus I with Lab	4
	Semester Credit Hours	17	Semester Credit Hours	18
	Total Semester Credit Hours (Year 1)			35

2 ND YEAR	FALL	SCHs	SPRING	SCHs
	HNRS 1610 Walking to Piraeus	6	HNRS 1640 Roads to Rome	6
	HNRS 1030 Honors Lecture I	0	HNRS 1060 Honors Lecture II	0
	PHYS 2413/2013 Principles of Physics I with Lab	4	ENSC 2361 Electrical Engineering and Circuits	3
	ELEN 2342 Intro to Digital Design	3	PHYS 2423/2023 Principles of Physics II with Lab	4
	MATH 1452/1052 Calculus II with Lab	4	MATH 3333 Ordinary Differential Equations	3
	Semester Credit Hours	17	Semester Credit Hours	16
	Total Semester Credit Hours (Year 2)			68

3 RD YEAR	FALL	SCHs	SPRING	SCHs
	HNRS 2311 Faith, Reason & Romance	3	HNRS 2640 Enlightenment & Modernity	6
	HNRS 2030 Honors Lecture III	0	HNRS 2060 Honors Lecture IV	0
	ELEN 3360 Electrical Circuits II	3	ELEN 3361 Linear Systems	3
	ELEN 3363 Electronic Circuits	3	ELEN 3364 Electronic Circuits II	3
	ELEN 4374 OT Networks	3	CYEN 4374 OT Network Security	3
	MATH 2451/2051 Calculus III with Lab	4	MATH 3314 Probability and Statistics	3
	Semester Credit Hours	16	Semester Credit Hours	18
	Total Semester Credit Hours (Year 3)			102

4 TH YEAR	FALL	SCHs	SPRING	SCHs
	HNRS 3610 The Last 200 Years	6	HNRS 3640 The Story of Scripture	6
	HNRS 3030 Honors Lecture V	0	HNRS 3060 Honors Lecture VI	0
	ELEN 3325 Electrical and Magnetic Fields	3	ELEN 3342 Digital Signal Processing	3
	ELEN 3374 Automatic Control Systems	3	ENSC 4312 Senior Project II	3
	ELEN 4341 Embedded Systems	3	ENSC 4315 Internship/Professional Experience	3
	ENSC 4311 Senior Project I	3		
	Semester Credit Hours	18	Semester Credit Hours	15
	Total Semester Credit Hours (Year 4)			135**

#### Advising Notes for Students:

\*\*\*Includes ENSC 4315 Internship/Professional Experience taken summer between 2nd/3rd or 3rd/4th years

This document is for course planning purposes only.

Please refer to the official degree plan and consult with your academic advisor for full degree requirements.

\*FYS 1300 (freshmen only) - University requirement for all students entering with less than 32 completed semester hours of credit. These 3 hours may not count in the total degree hours.

\*\*MATH 1434/1034 does not count in the total degree hours.

