

ELECTRICAL ENGINEERING: COMPUTER

Department of Electrical and Computer Engineering



Sample Four-Year Plan

First Year

1st Semester	sh	2nd Semester	sh
ALL RHET:1030 Rhetoric	4	ALL General Education Course	3
F/S MATH:1550 Math I: Single Variable Calculus <i>(P: ALEKS score ≥ 75 or MPT Level 3 score ≥ 9)</i>	4	F/S MATH 1560 Math II: Multivariable Calculus <i>(P: MATH:1550)</i>	4
ALL CHEM:1110 Principles of Chemistry I <i>(P: ALEKS score ≥ 55 or MPT Level 3 score ≥ 9)</i>	4	ALL MATH:2550 Math III: Matrix Algebra <i>(P: MATH:1550)</i>	2
F ENGR:1100 Intro to Engineering Problem Solving	3	ALL PHYS:1611 Introductory Physics I / Lab <i>(C: MATH:1550)</i>	4
F ENGR:1000 Engineering Success for First-Year Students <i>(First semester standing)</i>	1	F/S ENGR:1300 Intro to Engineering Computing <i>(C: MATH:1550)</i>	3
16		16	

Second Year

3rd Semester	sh	4th Semester	sh
ALL General Education Course	3	F/S MATH:3550 Engineering Math V: Vector Calculus <i>(P: MATH:1560 & MATH:2550; C: MATH:2560)</i>	3
ALL MATH:2560 Math IV: Differential Equations <i>(P: MATH:1560 & MATH:2550)</i>	3	ALL CS:2110 Discrete Structures	3
F/S PHYS:1612 Introductory Physics II <i>(P: PHYS:1611; C: MATH:1560)</i>	4	F/S CS:2230 Computer Science II, Data Structures <i>(P: ENGR:2730 minimum C- or CS:1210 minimum C-)</i>	4
F/S ENGR:2120 Electrical Circuits <i>(C: MATH:2560)</i>	3	F/S ECE:2400 Linear Systems I <i>(P: ENGR:2120 & MATH:2560)</i>	3
F/S ENGR:2730 Computers in Engineering <i>(P: ENGR:1300)</i>	3	F/S ECE:2410 Principles of Electronic Instrumentation <i>(P: PHYS:1612, ENGR:2120, & MATH:2560)</i>	4
16		17	

Third Year

5th Semester	sh	6th Semester	sh
F/S STAT:2020 Probability & Statistics For Engr & Phys Sci <i>(P: MATH:1560)</i>	3	ALL General Education Course	3
ALL CS:3330 Algorithms <i>(P: CS:2230 ≥ C-, CS:2210 ≥ C-, & MATH:1550)</i>	3	S ECE:3350 Computer Architecture and Organization <i>(P: ECE:3320 & ENGR:2730)</i>	3
F ECE:3320 Intro to Digital Design <i>(Sophomore Status)</i>	3	F/S ECE:3360 Embedded Systems <i>(P: ENGR:2730 & ECE:3320; C: ECE:2410)</i>	3
F/S ECE:3300 Intro to Software Design <i>(P: ENGR:2730)</i>	3	ALL Elective: Focus Area - ECE	3
F ECE:3700 Electromagnetic Theory <i>(P: MATH:3550 & PHYS:1612)</i>	3	ALL Elective: Focus Area, Minor, Certificate, etc. (minimum 2 sh)	2
F ECE:3000 Professional Seminar: Electrical Engineering <i>(Junior Status)</i>	1	ALL Elective: Focus Area -Technical	3
16		17	

Fourth Year

7th Semester	sh	8th Semester	sh
ALL General Education Course	3	ALL General Education Course	3
F/S ECE:4880 Principles of ECE Design <i>(P: Senior Status; ECE:2410, & ENGR:2730)</i>	3	F/S ECE:4890 ECE Design <i>(P: ECE:4880 and 3 of: ECE:3330, ECE:3350, ECE:3360, ECE:3400, ECE:3410, ECE:3500, ECE:3600, CS:3330)</i>	3
ALL Elective: Focus Area - 5000 level ECE	3	ALL Elective: Focus Area - 5000 level ECE	3
ALL Elective: Focus Area -Technical	3	ALL Elective: Focus Area, Minor, Certificate, etc.	3
ALL Elective: Focus Area - Breadth	3	ALL Elective: Focus Area - Depth	3
15		15	