

Transfer Plan

EE Major 2014-2015

PLEASE NOTE: All courses used to satisfy major requirements must be taken for a **LETTER GRADE**. These plans assume that students have completed equivalent lower division MATH, PHYS and CHEM courses at the community college that are required for the major. Due to six different college requirements, only major requirements are listed.

ELECTRICAL ENGINEERING (B.S.)			
	FALL	WINTER	SPRING
Year 1	ECE 15	ECE 45	ECE 30
	ECE 25	MATH 20E	ECE 65
	ECE 35	PHYS 2D	ECE 109
Year 2	ECE 100	ECE 102	Depth #1
	ECE 101	ECE 107	Elective #2
	ECE 103	Elective #1	Elective #3
Year 3	Depth #2	Depth #4	Depth #5
	Depth #3	Eng. Design	Elective #6
	Elective #4	Elective #5	Elective #7

DEPTH SEQUENCES:

Communication Systems: ECE 153, ECE 154A, ECE 154B, ECE 154C, and ECE 158A

Students must select an upper division ECE course to satisfy the 5th Depth course in the following sequences:

Electronics Circuits & Systems: ECE 163, 164, 165, 166
 Electronic Devices & Materials: ECE135A, ECE 135B, ECE 136L, ECE 183
 Machine Learning & Controls: ECE 171A, ECE 174, ECE 175A, one of ECE 171B, ECE 172A, or ECE175B
 Photonics: ECE 181, ECE 182, ECE 183 and either ECE 184 or ECE 185
 Signal and Image Processing: ECE 153, ECE 161A, ECE 161B, ECE 161C
 Computer System Design: CSE 141, ECE 165 and any two of ECE 118, ECE 158A, ECE 111 or CSE 143

MAJOR REQUIREMENTS

Lower Division Requirements

- CHEM 6A (General Chemistry I)
- MATH 20A (Calculus I)
- MATH 20B (Calculus II)
- MATH 20C (Calculus III)
- MATH 20D (Differential Equations)
- MATH 20E (Vector Calculus)
- MATH 20F (Linear Algebra)
- PHYS 2A (Mechanics)
- PHYS 2B (Electricity and Magnetism)
- PHYS 2C (Flu,Wav,Thrmdyn,Optics)
- PHYS 2D (Relativity & Quantum)
- EP Majors only: PHYS 2DL
- EE & Society Majors only:
2 courses in Social Sciences/Humanities
- _____
- _____
- ECE 15 (Engineering Computation)
- ECE 25 (Intro to Digital Design)
- ECE 30 (Intro to Computer Eng)
- ECE 35 (Intro to Analog Design)
- ECE 45 (Circuits & Systems)
- ECE 65 (Components & Circuits Lab)

Upper Division Requirements

- ECE 100 (Linear Electronic Systems)
- ECE 101 (Linear Systems Fundamentals)
- ECE 102 (Intro Active Circuit Design)
- ECE 103 (Fundamentals/Devis & Matrils)
- ECE 107 (Electromagnetism)
- ECE 109 (Eng. Probability & Stats)

DEPTHS:

EE Majors: 5 courses

- _____ _____ _____ _____ _____

EP Majors: 7 courses

- MATH 110A PHYS 110A PHYS 130A PHYS 130B PHYS 140A
- _____ _____

EE & Society Majors: 6 courses

- _____ _____ _____ _____ _____ _____

Design Course: ECE 111, 118, 191, or 190

Electives:

- EE Majors: 3 Professional _____ _____ _____
- and 4 Technical** _____ _____ _____ _____

- EP Majors: 3 Professional _____ _____ _____
- and 2 Technical** _____ _____

- EE & Society Majors: 4 Technical _____ _____ _____ _____

Transfer Plans

EP and EE & Society Majors 2014-2015

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ENGINEERING PHYSICS (B.S.)			
	FALL	WINTER	SPRING
Year 1	ECE 15	ECE 45	ECE 30
	ECE 25	MATH 20E	ECE 65
	ECE 35	PHYS 2D & 2DL	ECE 107
Year 2	ECE 100	ECE 102	ECE 109
	ECE 101	ECE 103	PHYS 130A
	PHYS 110A	MATH 110A	Elective #1
Year 3	Depth #1*	Depth #2*	Elective #3
	PHYS 130B	Eng. Design	Elective #4
	PHYS 140A	Elective #2	Elective #5

Please Note:

PHYS 2DL and PHYS 130A have prerequisites that are not listed above. PHYS 2DL requires PHYS 2BL or 2CL. PHYS 130A requires 100B and 110A. PHYS 100B requires PHYS 100A, 105A and MATH 20F. The upper division prerequisites can be applied towards elective requirements.

* ECE 123 & 166 or ECE 135A & 135B or ECE 182 & (181 or 183):

The 2 depth courses indicated * are not always offered in fall and winter, consult with the ECE Undergraduate Office for more detailed information or visit our website.

EE & SOCIETY (B.A.)			
	FALL	WINTER	SPRING
Year 1	ECE 15	ECE 45	ECE 30
	ECE 25	MATH 20E	ECE 65
	ECE 35	PHYS 2D S/H Elective	S/H Elective
Year 2	ECE 100	ECE 102	Depth #1
	ECE 101	ECE 107	Depth #2
	ECE 103	ECE 109	E. Elective
Year 3	Depth #3	Depth #5	Depth #6
	Depth #4	Eng. Design	E. Elective
	E. Elective	E. Elective	