

# COMMUNICATION SYSTEMS DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 17 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 45 PHYS 2C MATH 20D	ECE 30 ECE 65 MATH 20E
Year 3	ECE 100 ECE 101 TECH. ELECTIVE	ECE 102 ECE 107 ECE 109	ECE 153 TECH. ELECTIVE TECH. ELECTIVE
Year 4	ECE 155 ECE 158A PROF. ELECTIVE	ECE 157A* ECE 159 PROF. ELECTIVE	TECH. ELECTIVE DESIGN

\*ECE 157A requires ECE 161A which is offered in the fall. Please plan accordingly.

**Please note:**

- Due to six different college requirements, only **major** requirements are listed. Students must contact their college advisors for questions regarding General Education and University of California requirements.
- Course offerings are subject to change. Please go to <http://www.ece.ucsd.edu/courses> for more information.
- Go to <http://www.ece.ucsd.edu/undergraduate/ee-ep-electives> for a list of acceptable electives.
- Pick one of ECE 111, 115, 140B, 190 or 191 to complete the Design requirement.
- ALL courses used to satisfy major requirements must be taken for a **letter grade and passed with a C- or better**

# COMPUTER SYSTEM DESIGN DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 16 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 17 ECE 45 PHYS 2C MATH 20D	ECE 30 ECE 65 MATH 20E
Year 3	ECE 100 ECE 101 TECH. ELECTIVE	ECE 109 DEPTH 1 TECH. ELECTIVE	DEPTH 2 TECH. ELECTIVE PROF. ELECTIVE
Year 4	DEPTH 3 TECH. ELECTIVE TECH. ELECTIVE	DEPTH 4 PROF. ELECTIVE	DEPTH 5 DESIGN

\* Pick any five of ECE 102,103, 111, 140A-B, 141A-B, 143, 158A-B or 165 to satisfy the Computer System Design Depth. ECE 111 must be taken either as a Depth, Elective or Design course.

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# ELECTRONIC CIRCUITS & SYSTEMS DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 30 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 45 PHYS 2C MATH 20D	ECE 65 PHYS 2D MATH 20E
Year 3	ECE 100 ECE 101 ECE 103	ECE 102 ECE 107 ECE 109	ECE 165 TECH. ELECTIVE PROF. ELECTIVE
Year 4	ECE 164 ECE 166 TECH. ELECTIVE	TECH. ELECTIVE TECH. ELECTIVE PROF. ELECTIVE	TECH. ELECTIVE DESIGN

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- Go to <http://www.ece.ucsd.edu/undergraduate/ee-ep-electives> for a list of acceptable electives.
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# ELECTRONIC DEVICES & MATERIALS DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 30 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 45 PHYS 2C MATH 20D	ECE 65 PHYS 2D MATH 20E
Year 3	ECE 100 ECE 101 ECE 103	ECE 102 ECE 107 ECE 109	TECH. ELECTIVE TECH. ELECTIVE PROF. ELECTIVE
Year 4	ECE 135A TECH. ELECTIVE PROF. ELECTIVE	ECE 135B ECE 183 TECH. ELECTIVE	ECE 136L DESIGN

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# MACHINE LEARNING & CONTROLS DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 17 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 45 PHYS 2C MATH 20D	ECE 30 ECE 65 MATH 20E
Year 3	ECE 100 ECE 101 TECH. ELECTIVE	ECE 107 ECE 109 TECH. ELECTIVE	ECE 171A TECH. ELECTIVE TECH. ELECTIVE
Year 4	ECE 174 ECE 171B* PROF. ELECTIVE TECH. ELECTIVE	ECE 175A ECE 172A* PROF. ELECTIVE	ECE 175B* DESIGN TECH. ELECTIVE

\*Pick one of ECE 171B, 172A or 175B to complete the 4th Depth course requirement.

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- Pick one of ECE 111, 115, 140B, 190 or 191 to complete the Design requirement.
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## PHOTONICS DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 30 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 45 PHYS 2C MATH 20D	ECE 65 PHYS 2D MATH 20E
Year 3	ECE 100 ECE 101 ECE 103	ECE 107 ECE 109 TECH. ELECTIVE	ECE 181 TECH. ELECTIVE PROF. ELECTIVE
Year 4	ECE 182 TECH. ELECTIVE PROF. ELECTIVE	ECE 183 ECE 184* TECH. ELECTIVE	ECE 185* DESIGN TECH. ELECTIVE

\*Pick either ECE 184 or ECE 185 to complete the 4th Depth course requirement.

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## POWER ENGINEERING DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 30 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 45 PHYS 2C MATH 20D	ECE 65 PHYS 2D MATH 20E
Year 3	ECE 100 ECE 101 ECE 103	ECE 102 ECE 107 ECE 109	TECH. ELECTIVE TECH. ELECTIVE PROF. ELECTIVE
Year 4	ECE 121A ECE 128A PROF. ELECTIVE	ECE121B ECE 125A ECE 128B*	ECE 125B* TECH. ELECTIVE DESIGN

\*Pick either ECE 125B or ECE 128B to complete the 5th Depth course requirement.

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- Pick one of ECE 111, 115, 140B, 190 or 191 to complete the Design requirement.
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# SIGNAL & IMAGE PROCESSING DEPTH

	Fall quarter	Winter quarter	Spring quarter
Year 1	ECE 5 or 15 CHEM 6A MATH 18	ECE 15 or 5 ECE 25 MATH 20A	ECE 17 PHYS 2A MATH 20B
Year 2	ECE 35 PHYS 2B MATH 20C	ECE 45 PHYS 2C MATH 20D	ECE 30 ECE 65 MATH 20E
Year 3	ECE 100 ECE 101 TECH. ELECTIVE	ECE 107 ECE 109 TECH. ELECTIVE	ECE 153 TECH. ELECTIVE PROF. ELECTIVE
Year 4	ECE 161A TECH. ELECTIVE TECH. ELECTIVE	ECE 161B TECH. ELECTIVE PROF. ELECTIVE	ECE 161C DESIGN

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