## COMMUNICATION SYSTEMS

**Lower Division [72 units]**
- MATH 18, 20A-B-C-D-E
- PHYS 2A-B-C-D
- CHEM 6A
- ECE 5, 15, 25, 30, 35, 45, 65

**Upper Division [68 units]**
- **Breadth**: ECE 100, 101, 102, 107, 109
- **Depth**: ECE 153, 154A-B-C, 158A
- **Technical Electives**: four upper division engineering, math, or physics courses
- **Professional Electives**: two upper division courses
- **Design**: one of ECE 111, 190, or 191

## COMPUTER SYSTEM DESIGN

**Lower Division [72 units]**
- MATH 18, 20A-B-C-D-E
- PHYS 2A-B-C-D
- CHEM 6A
- ECE 5, 15, 25, 30, 35, 45, 65

**Upper Division [68 units]**
- **Breadth**: ECE 100, 101, 102, 103, 109
- **Depth**: CSE 141, ECE 165 and two of ECE 111, 158A or CSE 143
- **Technical Electives**: five upper division engineering, math, or physics courses
- **Professional Electives**: two upper division courses
- **Design**: one of ECE 111 (if not selected as a Depth course), 190, or 191

## ELECTRONIC CIRCUITS & SYSTEMS

**Lower Division [72 units]**
- MATH 18, 20A-B-C-D-E
- PHYS 2A-B-C-D
- CHEM 6A
- ECE 5, 15, 25, 30, 35, 45, 65

**Upper Division [68 units]**
- **Breadth**: ECE 100, 101, 102, 103, 107, 109
- **Depth**: ECE 164, 165, 166
- **Technical Electives**: five upper division engineering, math, or physics courses
- **Professional Electives**: two upper division courses
- **Design**: one of ECE 111, 190, or 191

## ELECTRONIC DEVICES & MATERIALS

**Lower Division [72 units]**
- MATH 18, 20A-B-C-D-E
- PHYS 2A-B-C-D
- CHEM 6A
- ECE 5, 15, 25, 30, 35, 45, 65

**Upper Division [68 units]**
- **Breadth**: ECE 100, 101, 102, 103, 107, 109
- **Depth**: ECE 135A-B, 136L, 183
- **Technical Electives**: four upper division engineering, math, or physics courses
- **Professional Electives**: two upper division courses
- **Design**: one of ECE 111, 190, or 191

## MACHINE LEARNING & CONTROLS

**Lower Division [72 units]**
- MATH 18, 20A-B-C-D-E
- PHYS 2A-B-C-D
- CHEM 6A
- ECE 5, 15, 25, 30, 35, 45, 65

**Upper Division [68 units]**
- **Breadth**: ECE 100, 101, 107, 109
- **Depth**: ECE 171A, 174, 175A and one of ECE 171B, 172A, or 175B
- **Technical Electives**: six upper division engineering, math, or physics courses
- **Professional Electives**: two upper division courses
- **Design**: one of ECE 111, 190, or 191

## PHOTONICS

**Lower Division [72 units]**
- MATH 18, 20A-B-C-D-E
- PHYS 2A-B-C-D
- CHEM 6A
- ECE 5, 15, 25, 30, 35, 45, 65

**Upper Division [68 units]**
- **Breadth**: ECE 100, 101, 103, 107, 109
- **Depth**: ECE 181, 182, 183 and either ECE 184 or 185
- **Technical Electives**: five upper division engineering, math, or physics courses
- **Professional Electives**: two upper division courses
- **Design**: one of ECE 111, 190, or 191

## SIGNAL & IMAGE PROCESSING

**Lower Division [72 units]**
- MATH 18, 20A-B-C-D-E
- PHYS 2A-B-C-D
- CHEM 6A
- ECE 5, 15, 25, 30, 35, 45, 65

**Upper Division [68 units]**
- **Breadth**: ECE 100, 101, 107, 109
- **Depth**: ECE 153, 161A-B-C
- **Technical Electives**: six upper division engineering, math, or physics courses
- **Professional Electives**: two upper division courses
- **Design**: one of ECE 111, 190, or 191
### COMMUNICATIONS SYSTEMS DEPTH

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### MAJOR REQUIREMENTS

**Lower Division Requirements**

- CHEM 6A General Chemistry I
- MATH 18 Linear Algebra
- PHYS 2A Mechanics
- MATH 20A Calculus I
- PHYS 2B Electricity and Magnetism
- MATH 20B Calculus II
- PHYS 2C Flu,Wav,Thrmdyn,Opdcs
- MATH 20C Calculus III
- PHYS 2D Relativity & Quantum
- MATH 20D Differential Equations
- MATH 20E Vector Calculus

**ECE 5 Intro to ECE**
- 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**

**BREADTH**

- ECE 100 Linear Electronic Systems
- ECE 101 Linear Systems Fundamentals
- ECE 102 Intro Active Circuit Design
- ECE 107 Electromagnetism
- ECE 109 Eng. Probability & Stats

**COMMUNICATIONS SYSTEMS DEPTH**

- ECE 153 Probability and Random Processes for Engineers
- ECE 154A Communications Systems I
- ECE 154B Communications Systems II
- ECE 154C Communications Systems III
- ECE 158A Data Networks I

**ELECTIVES**

- 4 Technical
- 2 Professional

- ____________
- ____________
- ____________
- ____________
- ____________
### Computer System Design Depth

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### Major Requirements

#### Lower Division Requirements
- CHEM 6A General Chemistry I
- MATH 20A Calculus I
- PHYS 2A Mechanics
- MATH 20B Calculus II
- PHYS 2B Electricity and Magnetism
- MATH 20C Calculus III
- PHYS 2C Flu, Wav, Thrmdyn, Optics
- MATH 20D Differential Equations
- PHYS 2D Relativity & Quantum
- MATH 20E Vector Calculus
- MATH 18 Linear Algebra

- ECE 5 Intro to ECE
- 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 45 Components & Circuits Lab

#### Upper Division Requirements

**Breadth**
- ECE 100 Linear Electronic Systems
- ECE 101 Linear Systems Fundamentals
- ECE 102 Intro Active Circuit Design
- ECE 103 Fundamentals/Devics & Matrls
- ECE 109 Eng. Probability & Stats

**Computer System Design Depth**
- CSE 141 Intro to Computer Architecture
- ECE 165 Digital Integrated Circuit Design
- ECE 111 Advanced Digital Design Project
- ECE 158A Data Networks I
- CSE 143 Microelectronic System Design

- Design Course: ECE 191 or 190

#### Electives
- 5 Technical
- 2 Professional

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## ELECTRONIC CIRCUITS & SYSTEMS DEPTH

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### MAJOR REQUIREMENTS

#### Lower Division Requirements
- CHEM 6A General Chemistry I
- MATH 20A Calculus I
- PHYS 2A Mechanics
- MATH 20B Calculus II
- PHYS 2B Electricity and Magnetism
- MATH 20C Calculus III
- PHYS 2C Flu, Wav, Thrmdyn, Optics
- MATH 20D Differential Equations
- PHYS 2D Relativity & Quantum
- MATH 20E Vector Calculus
- MATH 18 Linear Algebra

#### Upper Division Requirements
- ECE 100 Linear Electronic Systems
- ECE 101 Linear Systems Fundamentals
- ECE 102 Intro Active Circuit Design
- ECE 103 Fundamentals/Devices & Matrls
- ECE 107 Electromagnetism
- ECE 109 Eng. Probability & Stats

### ELECTRONIC CIRCUITS & SYSTEMS DEPTH
- ECE 164 Analog Integrated Circuit Design
- ECE 165 Digital Integrated Circuit Design
- ECE 166 Microwave Systems and Circuits

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

### ELECTIVES
- 5 Technical
- 2 Professional

ECE Undergraduate Student Affairs Office | Jacobs Hall 2701 & 2702 | ece.ucsd.edu
Questions? Go to vac.ucsd.edu
**MAJOR REQUIREMENTS**

### Lower Division Requirements

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**Upper Division Requirements**

**BREADTH**

- ECE 100 Linear Electronic Systems
- ECE 101 Linear Systems Fundamentals
- ECE 102 Intro Active Circuit Design
- ECE 103 Fundamentals/Devises & Matrials
- ECE 107 Electromagnetism
- ECE 109 Eng. Probability & Stats

**ELECTRONIC DEVICES & MATERIALS DEPTH**

- ECE 135A Semiconductor Physics
- ECE 135B Electronic Devices
- ECE 136L Microelectronics Laboratory
- ECE 183 Optical Electronics

- Design Course: ECE 111, 191, or 190

**ELECTIVES**

- 4 Technical
- 2 Professional

- [http://www.ece.ucsd.edu/undergraduate/ee-ep-electives](http://www.ece.ucsd.edu/undergraduate/ee-ep-electives) for a list of acceptable electives.
## ELECTRICAL ENGINEERING MAJOR
### Machine Learning & Controls Depth
#### Suggested Transfer Plan 2017-2018

### MAJOR REQUIREMENTS

#### Lower Division Requirements
- CHEM 6A General Chemistry I
- PHYS 2A Mechanics
- PHYS 2B Electricity and Magnetism
- PHYS 2C Flu, Wav, Thermdyn, Optics
- PHYS 2D Relativity & Quantum
- ECE 5 or ECE 15
- ECE 25
- ECE 35
- MATH 20E
- PHYS 2D
- ECE 30
- ECE 45
- ECE 65
- ECE 15 or ECE 5
- ECE 45
- MATH 20E
- PHYS 2D

#### Upper Division Requirements

##### BREADTH
- ECE 100 Linear Electronic Systems
- ECE 101 Linear Systems Fundamentals
- ECE 107 Electromagnetism
- ECE 109 Eng. Probability & Stats

##### MACHINE LEARNING & CONTROLS DEPTH
- ECE 171A Linear Control System Theory
- ECE 174 Intro to Linear and Nonlinear Optimization with Applications
- ECE 175A Elements of MI: Pattern Recognition & Machine Learning
- ECE 175B Elements of MI: Probabilistic Reasoning & Graphical Models
- ECE 100 or 107 or 109
- ECE 171B* or 172A* or 175B*
- ECE 174
- Tech. Elective 2
- Tech. Elective 4
- Tech. Elective 5
- Tech. Elective 6
- Design

- *One of: ECE 171B Linear Control System Theory, OR
  ECE 172A Intro to Intelligent Sys: Robotics & Machine Intelligence, OR
  ECE 175B Elements of MI: Probabilistic Reasoning & Graphical Models

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

#### ELECTIVES

- **6 Technical**
- **2 Professional**

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## Major Requirements

### Lower Division Requirements

- **CHEM 6A General Chemistry I**
- **CHEM 18 Linear Algebra**
- **PHYS 2A Mechanics**
- **PHYS 2B Electricity and Magnetism**
- **PHYS 2C Flu, Wav, Thrmdy, Optics**
- **PHYS 2D Relativity & Quantum**
- **ECE 5 Intro to ECE**
- **ECE 15 Intro to Digital Design**
- **ECE 25 Intro to Computer Eng**
- **ECE 30 Intro to Analog Design**
- **ECE 45 Circuits & Systems**
- **ECE 65 Components & Circuits Lab**

### Upper Division Requirements

**BREADTH**
- **ECE 100 Linear Electronic Systems**
- **ECE 101 Linear Systems Fundamentals**
- **ECE 103 Fundamentals/Devsic & Matrls**
- **ECE 107 Electromagnetism**
- **ECE 109 Eng. Probability & Stats**

**PHOTONICS DEPTH**
- **ECE 181 Physical Optics and Fourier Optics**
- **ECE 182 Electromagnetic Optics, Guided-Wave, and Fiber Optics**
- **ECE 183 Optical Electronics**
- **One of: ECE 184 Optical Information Processing and Holography, OR ECE 185 Lasers and Modulators**

### Design Course:
- **ECE 111, 191, or 190**

**Electives**
- 5 Technical
- 2 Professional

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### MAJOR REQUIREMENTS

#### Lower Division Requirements
- **CHEM 6A** General Chemistry I
- **MATH 18** Linear Algebra
- **MATH 20A** Calculus I
- **MATH 20B** Calculus II
- **MATH 20C** Calculus III
- **MATH 20D** Differential Equations
- **MATH 20E** Vector Calculus
- **PHYS 2A** Mechanics
- **PHYS 2B** Electricity and Magnetism
- **PHYS 2C** Flu, Wav, Thrmdyn, Optics
- **PHYS 2D** Relativity & Quantum

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#### Upper Division Requirements
- **ECE 100** Linear Electronic Systems
- **ECE 101** Linear Systems Fundamentals
- **ECE 107** Electromagnetism
- **ECE 109** Eng. Probability & Stats
- **ECE 153** Probability and Random Processes for Engineers
- **ECE 161A** Intro to Digital Signal Processing
- **ECE 161B** Digital Signal Processing I
- **ECE 161C** Applications of Digital Signal Processing

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

### ELECTIVES

- 6 Technical
- 2 Professional

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