

Updated Breadth- Depth Chart

EEL3211C-Basic Electric Energy Depth Courses (4) Catalog Year 2015-2023

- **EEL4242C-Power Electronics Circuits (3) Fall**
- **EEL4251-Power System Analysis (3)-TBA**
- **EEL4287/EEL5285 Smart Grid for Sustainability (3) Fall**
- **[EEL4930-Fundamentals of Electric Drive Systems \(3\) Spring](#)**

EEL3472- Fundamentals of Electromagnetic Fields (3) Catalog Year 2015-2023

- **EEE4375/EEE5379 - Introduction to RF Circuits (3) Fall**
- **EEL4473/EEL6486 E-mag Fields & Apps 2 (3) Fall**
- **EEL4495 Lightning (3) Fall**
- **[EEL4930-Radio Waves Near-Earth Space \(3\) Spring](#)**
- **[EEL4930 Micronano Mach Metama \(3\) Spring](#)**
- **EEL6487-E-Mag Fields & Apps 3 (3) TBA**

EEE3396 - Solid-State Electronic Devices (3) Catalog Year 2015-2023

- **EEE 4329/5400- Future of Microelec. Tech. (3) Spring**
- **EEE 4331/5406- Microelec Fab Tech (3) Fall**
- **EEE 4420/5426-Intro to Nanodevices (3) Fall**
- **EEE4414 Modern Memory Device Technologies (3) Spring**
- **EEL 4248 Fundamentals of RF and Power Electronic Devices (3) Spring**

EEE4260C-Bio-electrical Systems (3) Catalog Year 2015-2023

- **EEE4800/EEE5283 Neural Signals, Systems and Technology (3) Fall**
- **[EEL4930 Intro Neural Interfaces & Sys \(3\) Spring](#)**
- **[EEL4930 Biosignals and Systems Analysis \(3\) Spring](#)**
- **BME4503 Biomedical Instrumentation (3) Fall, Spring**
- **BME4531-Medical Imaging (3) Fall, Spring**
- **BME4361 Neural Engineering (3) Spring**

EEE4306 Electronic Circuits (3) Catalog Year 2021-2023

- **EEE 4310/EEE5322 VLSI Circuits and Technology 1(3) Fall, Spring**
- **EEE4375/EEE5379 - Introduction to RF Circuits (3) Fall**
- **EEE5364 Fund Data Convert (3)**
- **EEE6321 Analog IC Design 2 (3)**
- **EEE6323 Digital IC Design 2 (3)**
- **EEE6328 Microwave IC (3)**
- **EEE6374 RF CKts & Systems (3)**

EEL4514C-Communications Systems (4) Catalog Year 2015-2023

- **EEL4598/5718 Data Computer Communications (3) SS, Fall**
- **EEL4516/5544 Noise in Linear Systems (3) Fall**
- **EEL4599 Wireless and Mobile Networks (3) Spring**
- **EEL6591 Wireless Networks (3)**
- **EEL6532 Info Theory (3)**
- **EEL6533 Stat Dec. Theory (3)**
- **EEL6535 Digital Communications (3)**
- **EEL6507 Queueing Theory (3)**
- **EEL6509 Wireless Communication (3)**
- **EEL6550 Error Cor. Coding (3)**

EEL4657C-Linear Controls System (4) Catalog Year 2015-2023

- **EEL4287/EEL5934- Smart Grid (3) Fall**
- **EEL 4610/5182 State Variable Methods (3) Fall**
- **EEL 6614 Modern Control Theory (3)**
- **EEL 6617 Linear Multivar Control (3)**
- **EEL 6619 Robust Control System (3)**

EEL4744C Microprocessor Applications (4) Catalog Year 2020-2023

- **EEL4745C- Microprocessor Applications 2 (4) Fall**
- **EEE4511C Real-time DSP Applications (4) Spring**
- **EEL4712C-Digital Designs (4) Fall, Spring**
- **[EEL4930- Autonomous Robots \(3\)](#) Spring**

EEL4750/EEE5502 Foundations of DSP (3) Catalog Year 2021-2023

- **EEE4773 Fundamentals of Machine Learning (3) Spring**
- **EEL4930 Applied Machine Learning (3) Spring**
- **EEE6287 Brain Machine Interface (3)**
- **EEE6503 Digital Filtering (3)**
- **EEE6586 Automatic Speech Proc. (3)**
- **EEL6814 Neural Networks (3)**

2018-2020 Catalog Year for Digital Design

EEL4712 Digital Design (4)

- EEL 4713C Digital Computer Architecture (4) Spring
- EEL 4720/5721 Reconfig. Computing (3) Fall, Spring
- EEL 4736/5737 Principles of Computer System Design (3) Fall
- EEL 6706 Fault Tolerant Cpr (3)
- EEL 6763 Parallel Cpr Arch (3)
- EEL6781 Automatic Cpr. (3)
- EEL6892 Virtual Computers (3)

2015-2019 Catalog Year for Electronic Circuits 1

EEE3308C- Electronic Circuits (4)

- EEL4242C/5317 Power Electronics (3) Fall
- EEE4306/5320 Electronic Circuits 2 (3) Fall
- EEE4310/5322 Digital Integrated Circuits (3) Fall, Spring
- EEE6321 Analog IC Design 2 (3)
- EEE6323 Digital IC Design 2 (3)
- EEE6328 Microwave IC (3)
- EEE6374 RF CKts & Systems (3)
- EEE5364 Fund. Data Convert (3)