

Electrical Engineering Technical Electives: Must take 17 credits

Please check schedule of courses for semester offering

BME 4160 Magnetic Biomaterials
BME4931 Neural Engineering**
BME4931 Neural Systems Model**
BME 5704 Adv. Comp. Meth. for BME
BME 6938: Neural Instrumentation
EEE4210 Intro to Biophotonics
EEE4222/EEL5225 Resonant MEMS
EEE4306/5320 Elec. Circuits 2
EEE4310/5322 Dig. Integrated Circ.
EEE4329/5400 Fut. of Micro. Tech.
EEE4331/5406 Microelec Fab Tech
EEE4373/5934 RF Electronics
EEE4404/5408 Mixed IC Test
EEE4420/5426-Intro to Nanodev.
EEE4701 Automated HW/SW Ver.
EEE4714 Intro to HW Security
EEE4720/EEL5934- Acoustics
EEE5364 Fund. Data Convert
EEE6287 Brain Machine Interface
EEE6321 Analog IC Design 2
EEE6323 Digital IC Design 2
EEE6328 Microwave IC
EEE6374 RF CKts & Systems
EEE6428 Comp. Nanoelectronics
EEE6503 Digital Filtering
EEE6586 Automatic Speech Proc.
EEE6591 Wireless Networks
EEL3402 Remote Sensing
EEL4222 Resonant MEMS
EEL4242C/5317 Power Electronics
EEL4251/EEL5934-Power Sys. Anal.
EEL4271/EEL5934- Power Sys. Prot.
EEL4287/EEL5934- Smart Grid
EEL4403 Comput. Photography
EEL4412/EEL5417- App Mag & Mag Mtls
EEL4421 RF/Microwave Pass. Circ.
EEL4440- Optical Comm. Sys.
EEL4446/EEL5447 Laser Theory & Des.
EEL4458/EEL5441- Fund. Of Phot.
EEL4461- Antenna Systems
EEL4473/EEL6486 E-mag Fields & Apps 2
EEL4495 Lightning
EEL4516/5544 Noise in Lin Sys
EEL4523 Audio Engineering
EEL4540/EEL5547- Intro to Radar
EEL4598/5718 Data Cpr Comm
EEL4599 Wireless and Mobile Net.
EEL4610/5182 State Variable Meth
EEL4713C Digital Comp. Arc
EEL4720/5721 Reconfig Cpr
EEL4732 Adv. Syst. Programming
EEL4736/5737 Prin Cpr Sys Design
EEL4750/EEE5502 Found. of DSP
EEL4853 Cross-Layered Syst. Sec.
EEL4930 Elem. of Mach. Learning
EEL4930 Machine Learning
EEL4930 Microprocessor Apps 2
EEL4930 Mod. Memory Dev. Tech.
EEL4930 Plasma Physics for EE
EEL4930 RF/Power Elect. Devices
EEL4930/5934 Biophotonics
EEL4930/EEL6935 IC Test 2
EEL5451L- Photonics Lab
EEL6287 Brain Machine Interfaces
EEL6487 E-Mag Fields & Apps 3
EEL6507 Queueing Theory
EEL6509 Wireless Comm
EEL6532 Info Theory
EEL6533 Stat Dec Theory
EEL6535 Digital Comm
EEL6550 Error Cor Coding
EEL6614 Modern Control Theory
EEL6617 Linear Multivar Control
EEL6619 Robust Control System
EEL6706 Fault Tolerant Cpr
EEL6763 Parallel Cpr Arch
EEL6781 Automatic Cpr.
EEL6814 Neural Networks
EEL6892 Virtual Computer

^Taking additional EE breadth and depth courses will count towards EE Technical Elective requirements.

^^ BME4931 course code are special topics for the BME major. Please check with EE advisor for BME enrollment