

## **Electrical Engineering Technical Electives: Must take 17 credits**

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

^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