EECE Technical Electives
for students graduating in 2024 or later

Any 300- or 400-level EECE course that is not already being used to fulfill some other EECE degree requirement may be used toward the technical elective requirement; in addition, any of the following non-EECE courses can be used as technical electives:

- BIOL 204, 205, 206 INTRODUCTORY SERIES (5)
- BIOL 348 HUMAN ANATOMY AND PHYSIOLOGY (5)
- CHEM 162, 163 GENERAL CHEMISTRY II, III (5,5)
- CSCI 145 COMPUTER PROGRAM. & LINEAR DATA STRUCT. (4)
- CSCI 247 COMPUTER SYSTEMS I (5)
- CSCI 241 DATA STRUCTURES (4)
- CSCI 3XX and CSCI 4XX
- ENGR 170 INTRO TO MATERIALS SCIENCE & ENGR (4)
- ENGR 214 STATICS (4)
- ENGR 225 MECHANICS OF MATERIALS (4)
- ENRG 320 SCIENCE OF ENERGY RESOURCES (4)
- ENRG 360 ENERGY EFFICIENT DESIGN (4)
- ENRG/ESCI 380 ENERGY AND ENVIRONMENT (4)
- ENRG/ECON 386 THE ECONOMICS OF ELECTRICITY MARKETS (4)
- ENRG 420 ENERGY SCIENCE II (3)
- ENRG 464 SUSTAINABLE BUILDING ANALYSIS (4)
- ENRG 480 APPLICATIONS ENERGY PRODUCTION (4)
- ENRG 486 ELECTRIC UTILITY PLANNING (4)
- MATH 225 MULTIVARIABLE CALC. AND GEOM. II (4)
- MATH 226 LIMITS AND INFINITE SERIES (4)
- MATH 302 INTRO TO PROOFS VIA NUMBER THEORY (4)
- MATH 304 LINEAR ALGEBRA (4)
- MATH 307 MATHEMATICAL COMPUTING (4)
- MATH 309 INTRO TO PROOF IN DISCRETE MATH (4)
- MATH 342 STATISTICAL METHODS I (4)
- MATH 343 STATISTICAL METHODS II (4)
- MATH 344 HONORS PROBABILITY AND STATS (4)
- MATH 410 MATHEMATICAL MODELING (4)
- MATH 430 FOURIER SERIES/DIFFNTL EQNS (4)
- MATH 432 SYSTEM OF DIFFERENTIAL EQUATIONS (4)
- MATH 441 PROBABLITY (4)
- MATH 458 STOCHASTIC PROCESSES (4)
- MATH 473 NUMERICAL LINEAR ALGEBRA (4)
- M/CS 335/375 LINEAR OPTIMIZATION/NUMERICAL COMPUT (4)
- M/CS 435/475 NONLINEAR OPTIMIZATION/NUM ANALYSIS (4)
- MFGE 341 QUALITY ASSURANCE (4)
- MFGE 342 DESIGN OF EXPERIMENTS (4)
- MFGE 453 INDUSTRIAL ROBOTICS (4)
- OPS 360 OPERATIONS MANAGEMENT (4)
- OPS 460 DESIGNING AND IMPROVING OPERATIONS (4)
- OPS 461 PROJECT MANAGEMENT (4)
- OPS 463 ENTERPRISE RESOURCE PLANNING SYSTEMS (4)
- PHYS 220 PHYSICS W/ CALCULUS IV (4)
- PHYS 224 MODERN PHYSICS I (4)
- PHYS 225 MODERN PHYSICS II (3)
- PHYS 339 OPTICS (3)
- PHYS 350 ENGINEERING THERMODYNAMICS (3)
- PHYS 368 ELECTROMAGNETISM I (3)
- PHYS 369 ELECTROMAGNETISM II (3)
Higher Level EECE Electives
for students graduating in 2024 or later

Students must take 5 classes (20 credits) of Higher-Level EECE Electives chosen from the following list. The student’s chosen concentration requires 3 specific Higher-Level EECE Electives to be taken, leaving 2 for the student to choose:

- EECE 321 ELECTRONIC SYSTEMS (4)
- EECE 333 DIGITAL SYSTEM DESIGN (4)
- EECE 361 SIGNAL PROPAGATION (4)
- EECE 362 WIRELESS NETWORKING AND APPLICATIONS (4)
- EECE 372 ELECTRICAL POWER AND ELECTROMECHANICAL DEVICES (4)
- EECE 374 ENERGY PROCESSING (4)
- EECE 378 POWER SYSTEM ANALYSIS AND THE SMART GRID (4)
- EECE 383 MACHINE LEARNING FOR ENGINEERS (4)
- EECE 384 ARTIFICIAL INTELLIGENCE AND REINFORCEMENT LEARNING (4)
- EECE 433 DIG. SIGNAL PROCESSSING (4)
- EECE 460 DIGITAL COMMUNICATIONS (4)