EECE Technical Electives
for students graduating in 2022 or 2023

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
*EECE 397A WIRELESS NETWORKING AND APPLICATIONS (4)
*EECE 397B MACHINE LEARNING FOR ENGINEERS
*EECE 397C ARTIFICIAL INTELLIGENCE AND REINFORCEMENT LEARNING (4)
EECE 300 DIRECTED INDEP. STUDY
EECE 400 DIRECTED INDEPENDENT STUDY
EECE 495 DIRECTED RESEARCH (1-3)
ENGR 170 INTRO TO MATERIALS SCIENCE & ENGR (4)
ENGR 214 STATICS (4)
ENGR 225 MECHANICS OF MATERIALS (4)
ENRG 420 ENERGY SCIENCE II (3)
ENRG 480 APPLICATIONS ENERGY PRODUCTION (4)
ENRG 360 ENERGY EFFICIENT DESIGN (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 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)

Electronics Students Only:
EECE 374 ENERGY PROCESSING (4)
EECE 378 SMART & RENEWABLE POWER (4)

Energy Students Only:
EECE 311 DISCREET SYSTEMS (4)
EECE 321 ELECTRONIC SYSTEMS (4)
EECE 333 DIGITAL SYSTEM DESIGN (4)
EECE 433 DIG. SIGNAL PROCESSING (4)
EECE 460 DIGITAL COMMUNICATIONS (4)
ENRG 464 SUSTAINABLE BUILDING ANALYSIS (4)
ENRG 486 ELECTRIC UTILITY PLANNING (4)

* EECE 397A, 397B, and 397C: If taken as a substitution for a core or concentration requirement, cannot also be counted as a technical elective.