

Major Concentration Area

Total Credits
 ■ Courses
 ■ Suggested Elective
 * Capstone Design Course

34

Analog Circuits

EE 271 (5 credits)
 EE 331 (5 credits)
 EE 332 (5 credits)
 EE 361 (5 credits)
 EE 433 (5 credits)
 EE 438* (5 credits)
 EE 473 (5) (or 482 [4])
 EE 486 (3 credits)
 EE 341 (5 credits)

33

Biomedical Instrumentation

EE 271 (5 credits)
 EE 331 (5 credits)
 EE 332 (5 credits)
 EE 361 (5 credits)
 EE 436 (4 credits)
 EE 438* (5 credits)
 EE 473 (5) (or 482 [4])
 EE 486 (3 credits)
 EE 341 (5 credits)

26

Photonics

EE 331 (5 credits)
 EE 332 (5) (or 465 [4])
 EE 361 (5 credits)
 EE 482 (4 credits)
 EE 485 (4 credits)
 EE 488* (4 credits)
 EE 433 (5 credits)
 EE 463 (4 credits)

31

Sensors & Devices

EE 271 (5 credits)
 EE 331 (5 credits)
 EE 332 (5 credits)
 EE 361 (5 credits)
 EE 482 (4 credits)
 EE 484* (4 credits) or
 EE 483* (4 credits)
 EE 486 (3 credits)
 EE 433 (5 credits)
 EE 473 (5 credits)
 EE 485 (4 credits)

35

Digital VLSI Circuits

EE 271 (5 credits)
 EE 331 (5 credits)
 EE 332 (5 credits)
 EE 371 (5 credits)
 EE 469 (5 credits)
 EE 476 (5 credits)
 EE 477* (5 credits)
 EE 341 (5 credits)
 EE 361 (5 credits)

29

Embedded Computing Syst.

EE 271 (5 credits)
 EE 331 (5 credits)
 EE 371 (5 credits)
 EE 469 (5 credits)
 EE 474 (4 credits)
 EE 475* (5 credits)
 EE 332 (5 credits)
 EE 341 (5 credits)
 EE 470 (4 credits)
 CSE 351 (4 credits)
 CSE 373 (4 credits)
 CSE 374 (3 credits)

32

Electromagnetics

EE 271 (5 credits)
 EE 331 (5 credits)
 EE 332 (5 credits)
 EE 361 (5 credits)
 EE 462 (4 credits)
 EE 463 (4 credits)
 EE 464* (4 credits)
 EE 416 (4 credits)

24

Digital Signal & Image Processing

EE 341 (5 credits)
 EE 416 (4 credits)
 EE 440 (4 credits)
 EE 442 (3 credits)
 EE 443* (5 credits)
 CSE 373 (3 credits)
 EE 271 (5 credits)
 EE 461 (4 credits)
 CSE 374 (3 credits)

24

Communications

EE 341 (5 credits)
 EE 416 (4 credits)
 EE 417 (4 credits)
 EE 418 (3 credits)
 EE 420* (4 credits)
 EE 461 (4 credits)
 EE 271 (5 credits)
 EE 361 (5 credits)

31

Large Scale Power Systems

EE 331 (5 credits)
 EE 351 (5 credits)
 EE 447 (4 credits)
 EE 452 (5 credits)
 EE 454 (4 credits)
 EE 455 (4 credits)
 EE 456* (4 credits)
 EE 453 (5 credits)
 EE 457 (4 credits)
 EE 461 (4 credits)
 ECON 200 (5 credits)

28

Sustainable Electric Energy

EE 331 (5 credits)
 EE 351 (5 credits)
 EE 452 (4 credits)
 EE 453* (5 credits)
 EE 454 (4 credits)
 EE 456* (4 credits)
 EE 451 (4 credits)
 EE 457 (4 credits)
 EE 482 (4 credits)

28

Pwr. Electronics & Electr. Drives

EE 331 (5 credits)
 EE 351 (5 credits)
 EE 447 (4 credits)
 EE 452 (5 credits)
 EE 453* (5 credits)
 EE 454 (4 credits)
 EE 482 (5 credits)

26

Controls

EE 271 (5 credits)
 EE 341 (5 credits)
 EE 447 (4 credits)
 EE 448* (4 credits)
 EE 449* (4 credits)
 EE 474 (4 credits)

25

Synthetic Biology

EE 341 (5 credits)
 EE 423 (3 credits)
 EE 425 (4 credits)
 EE 426* (4 credits)
 EE 447 (4 credits)
 BIOL 200 (5 credits)
 EE 424 (3 credits)
 EE 436 (4 credits)
 BIOL 302 (4 credits)
 BIOL 405 (3 credits)