

Major Concentration Areas

Advanced Electronic and Photonic Devices

33 credits

Required:

5	EE 331
5	EE 361
4	EE 482
4	EE 485
3	EE 486
4	EE 484
4	EE 497/498*

Recommended:

3	EE 421
4	EE 483

Biomedical Instrumentation

33 – 34 credits

Required:

5	EE 271
5	EE 331
5	EE 332
5	EE 361
4	EE 436
5	EE 433 or
4	EE 474
5	EE 438*

Recommended:

5	EE 341
3	EE 447
4	EE 482 or
4	EE 484

Communications

24 credits

Required:

5	EE 341
4	EE 416
4	EE 417
3	EE 418
4	EE 419
4	EE 420*

Recommended:

5	EE 271
5	EE 361

Controls

26 credits

Required:

5	EE 271
5	EE 341
4	EE 447
4	EE 474
4	EE 448*
4	EE 449*

Digital Signal and Image Processing

25 credits

Required:

5	EE 341
4	CSE 373
4	EE 416
4	EE 440
3	EE 442
5	EE 443*

Recommended:

5	EE 271
3	CSE 374
4	EE 419

Digital VLSI

40 credits

Required:

5	EE 271
5	EE 331
5	EE 332
5	EE 371
5	EE 469
5	EE 476
5	EE 477
5	EE 478*

Recommended:

5	EE 341
5	EE 361

Embedded Computing Systems

29 credits

Required:

5	EE 271
5	EE 331
5	EE 371
5	EE 469
4	EE 474
5	EE 475*

Recommended:

5	EE 332
5	EE 341
4	CSE 373
3	CSE 374
4	EE 470

Integrated Systems

30 credits

Required:

5	EE 331
5	EE 332
5	EE 361
5	EE 433
5	EE 437*
5	EE 473

Recommended:

5	EE 271
5	EE 341

Neural Engineering

27 credits

Required:

5	EE 331
5	EE 341
4	EE 416
3	EE 442
3	EE 460
3	EE 466
4	EE 461*

Recommended:

5	EE 332
3	EE 423
4	EE 436
3	AMATH 342
5	Phil 442 or
5	Phil 160

Power Electronics and Drives

28 credits

Required:

5	EE 331
5	EE 351
4	EE 447
5	EE 452
4	EE 454
5	EE 453*
5	EE 458

Recommended:

5	EE 482
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Sustainable Power Systems

31 credits

Required:

5	EE 331
5	EE 351
4	EE 447
5	EE 452
4	EE 454
4	EE 455
4	EE 456*

Recommended:

5	ECON 200
4	EE 419
5	EE 453
4	EE 457

*Capstone Design Course

Students in multi-quarter capstones must complete all courses in the capstone sequence to receive credit.