

# 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
8	EE 497/498*

### Recommended:

3	EE 421
5	EE 473

## Biomedical Instrumentation

36 – 40 credits

### Required:

5	EE 271
5	EE 331
5	EE 332
5	EE 361
4	EE 482 or
4	EE 484 or
4	EE 447
5	EE 433 or
4	EE 474
8	EE 497/498* or
11	ElH capstone series*

### Recommended:

4	EE 342
3	EE 447
4	EE 482 or
4	EE 484

## Communications

19 credits

### Required:

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

### Recommended:

5	EE 271
5	EE 361
4	EE 342

## Controls

25 credits

### Required:

5	EE 271
4	EE 342
4	EE 447
4	EE 474
8	EE 497/498*

### Recommended:

5	EE 482
5	EE 473

## Digital Signal and Image Processing

27 credits

### Required:

4	EE 342
4	CSE 373
4	EE 416
4	EE 440
3	EE 442
8	EE 497/498*

### 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:

4	EE 342
5	EE 361
4	EE 482
5	EE 473

## 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
4	EE 342
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
4	EE 342

## Neural Engineering

27 credits

### Required:

5	EE 331
4	EE 342
4	EE 416
3	EE 442
3	EE 460
4	EE 466
4	EE 461*

### Recommended:

5	EE 332
3	EE 423
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
5	EE 473

## 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

Where applicable, a concentration-specific capstone may be replaced with the ENGINE capstone (EE 497/498).

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