

# Major Concentration Areas

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

Required Courses

Suggested Courses

\*Capstone Design Course

## Biomedical Instrumentation (36-40 credits)

EE 271 (5)  
EE 331 (5)  
EE 332 (5)  
EE 361 (5)  
EE 436 (4)  
EE Capstone\*  
[See advising]  
EE 473 (5) or  
EE 482 (4)

EE 341 (5)  
EE 486 (3)

## Integrated Syst. (30 credits)

EE 331 (5)  
EE 332 (5)  
EE 361 (5)  
EE 433 (5)  
EE 473 (5)  
EE 473 (5)  
EE 437 (5)

EE 271 (5)  
EE 341 (5)

## Sensors & Devices (39 credits)

EE 271 (5)  
EE 331 (5)  
EE 332 (5)  
EE 361 (5)  
EE 482 (4)  
EE 484 (4)  
EE 486 (3)  
EE 497\* (4) &  
EE 498\* (4)

EE 433 (5)  
EE 473 (5)  
EE 485 (4)

## Digital VLSI (40 credits)

EE 271 (5)  
EE 331 (5)  
EE 332 (5)  
EE 371 (5)  
EE 469 (5)  
EE 476 (5)  
EE 477 (5)  
EE 478\* (5)

EE 341 (5 credits)  
EE 361 (5 credits)

## Embedded Computing Systems (29 credits)

EE 271 (5)  
EE 331 (5)  
EE 371 (5)  
EE 469 (5)  
EE 474 (4)  
EE 475\* (5)

EE 332 (5)  
EE 341 (5)  
EE 470 (4)  
CSE 351 (4)  
CSE 373 (4)  
CSE 374 (3)

## Electromagnetics (40 credits)

EE 271 (5)  
EE 331 (5)  
EE 332 (5)  
EE 361 (5)  
EE 462 (4)  
EE 463 (4)  
EE 464 (4)  
EE 497\* (4) &  
EE 498\* (4)

EE 416 (4 credits)

## Digital Signal & Image Processing (24 credits)

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

EE 271 (5)  
EE 461 (4)  
CSE 374 (3)

## Communications (24 credits)

EE 341 (5)  
EE 416 (4)  
EE 417 (4)  
EE 418 (3)  
EE 420\* (4)  
EE 461/419 (4)

EE 271 (5)  
EE 361 (5)

## Sustainable Power Syst. (31 credits)

EE 331 (5)  
EE 351 (5)  
EE 447 (4)  
EE 452 (5)  
EE 454 (4)  
EE 455 (4)  
EE 456\* (4)

EE 453 (5)  
EE 457 (4)  
EE 461 (4)  
ECON 200 (5)

## Power Electronics & Drives (28 credits)

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

EE 482 (5)

## Controls (26 credits)

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