

2017-2018 Computer Engineering Technical Electives

Offered Spring
(prerequisites)

Offered Fall
(prerequisites)

Offered
Fall and Spring
(prerequisites)

CE Focus Technical Electives: You must take at least *three* of these

ECE 417
Introduction to
Robotics
(ECE177 & MAT228)

ECE 471
Embedded
Systems
(ECE271)

ECE 478
Industrial
Computer Control
(ECE271)

COS 3xx
Computer Science
Elective
(varies)

ECE 477
Hardware
Applications in C
(ECE277)

ECE 498
Selected Topics
with CE focus
(varies)

COS 4xx
Computer Science
Elective
(varies)

If you wish to specialize in an area, some possibilities are:

Embedded Control
ECE478, ECE477,
ECE471, ECE414

High Performance Computing
ECE331, ECE477

Robotics
ECE417, ECE477,
ECE471, ECE487

ECE 414
Feedback
Control Systems
(ECE314)

ECE 484
Communications
Engineering
(ECE314 & ECE316)

ECE 323
Electric
Power Conversion
(ECE214 & C- in ECE210)

ECE 444
Analog IC
Design
(ECE314 & ECE343)

ECE 462
Semiconductor
Devices
(Chy131,PHY122,MAT258)

ECE 498
Selected Topics
(varies)

ECE 351
Fields and
Waves
(ECE210 & MAT228)

ECE 427
Electric Power
Systems
(C- in ECE210)

ECE 445
Digital IC
Design
(ECE342)

ECE 464
Microelectronics
Engineering
(Chy131,PHY122,MAT258)

Other Courses
with
Adviser Approval
(varies)

ECE 453
Microwave
Engineering
(ECE351)

ECE 465
Introduction to
Sensors
(junior standing)