ELECTRICAL & COMPUTER ENGINEERING

FIRST YEAR

Fall

MTH 095 or MTH 103
Algebraic Reasoning
F,W,S,U(4)

MTH 111
College Algebra
F,W,S,U(4)

CS 161
Intro to Computer Sci. I
F,W,S,U(4)

Perspectives
Western Culture
F,W,S,U(3)

Perspectives
Cultural Diversity
F,W,S,U(3)

WR 121
English Composition
F,W,S,U(3)

Perspectives
Biological Science with Laboratory
F,W,S,U(4)

COMM 111/114
Speech
F,W,S,U(3)

Perspectives
Literature and Arts
F,W,S,U(3)

Lifetime Fitness
HHS 231 + Lab/PAC
F,W,S,U(2+1)

Academic Year: 2014-2015

Winter

MTH 112
Elementary Functions
F,W,S,U(4)

CS 162
Intro to Computer Sci. II
F,W,S,U(4)

Difference, Power & Discrimination
F,W,S,U(3-4)

Spring

ECE 111
F(3)

CS 261
Data Structures in ‘C’
F,W,S,U(4)

ECE 112
W(3)

Perspectives
Cultural Diversity
F,W,S,U(3)

Difference, Power & Discrimination
F,W,S,U(3-4)

Perspectives
Social Processes & Institutions
F,W,S,U(3)

Spring

Second Year

Fall

ECE 111
F(3)

CS 261
Data Structures in ‘C’
F,W,S,U(4)

ECE 112
W(3)

Perspectives
Biological Science with Laboratory
F,W,S,U(4)

Difference, Power & Discrimination
F,W,S,U(3-4)

Perspectives
Social Processes & Institutions
F,W,S,U(3)

Winter

MTH 231
Differential Calculus
F,W,S,U(4)

Perspectives
Western Culture
F,W,S,U(3)

Perspectives
Western Culture
F,W,S,U(3)

PH 211
Physics w/Calculus
F,S,U(4)

Difference, Power & Discrimination
F,W,S,U(3-4)

Perspectives
Social Processes & Institutions
F,W,S,U(3)

Spring

MTH 231 or MTH 251 (concurrent)

MTH 251
Integral Calculus
F,W,S,U(4)

MTH 252
Integral Calculus
F,W,S,U(4)

Perspectives
Social Processes & Institutions
F,W,S,U(3)

Shaded courses are required by the college prior to admission to the Professional Engineering Program.

Shaded courses are additional prerequisites for third-year courses.

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Rev. 5/14
Academic Year: 2015-2016

THIRD YEAR

Fall

MTH 251 & MTH 252

ENGR 201
Electrical Fundamentals
F, W, S, U (3)

MTH 111 (concurrent)

CH 201 F(3)
or CH 231 F, W, U(5)
(CH 211 recommended)
Chemistry

MTH 252

PH 212
Physics w/Calculus
(PH 222 recommended)
F, W, S, U (3)

MTH 254

ENGR 202
Electrical Fundamentals
W, S, U (3)

ECE 375
Comp. Organiz. & Assembly Language
Programming
F, W(4)

MTH 256

ENGR 203
Electrical Fundamentals
F, S, U (3)

ECE 371 & ‘C’ programming

MTH 254

MTH 252

PH 213
Physics w/Calculus
(PH 223 recommended)
W, S, U (3)

MTH 256

FALL

ENGR 201
Electrical Fundamentals
F, W, S, U (3)

ENGR 202
Electrical Fundamentals
W, S, U (3)

ENGR 203
Electrical Fundamentals
F, S, U (3)

MTH 251 & MTH 252

MTH 254

PH 212
Physics w/Calculus
(PH 222 recommended)
F, W, S, U (3)

MTH 256

PH 213
Physics w/Calculus
(PH 223 recommended)
W, S, U (3)

MTH 254

ECE 375
Comp. Organiz. & Assembly Language
Programming
F, W(4)

ECE 371 & ‘C’ programming

MTH 254

MTH 252

MTH 256

ENGR 351
Signals & Systems I
F, W(3)

MTH 254

ENGR 352
Signals & Systems II
W, S(4)

MTH 256

ENGR 353
Intro. to Probability &
Random Signals
W, S(3)

ECE 271 & ‘C’ programming

MTH 254

MTH 256

ECE 351
Signals & Systems I
F, W(3)

ECE 352
Signals & Systems II
W, S(4)

MTH 254

MTH 256 & ENGR 203

ECE 353
Intro. to Probability &
Random Signals
W, S(3)

MTH 254

ENGR 203
Electronics I
F, W(4)

ECE 322
Electronics II
F, W, S, U (3)

ECE 323
Electronics II
F, W, S, U (3)

WR 121

WR 327
Technical Report Writing
F, W, S, U (3)

ECE 323
Electronics II
F, W, S, U (3)

ENGR 203
Electronics I
F, W(4)

ECE 322
Electronics II
F, W, S, U (3)

ENGR 391
Transmission Lines
F, W, S, U (3)

ECE/CS 372
Intro. to Computer Networks
F, W, S, U (4)

ENGR 391
Transmission Lines
W(3)

Synthesis
Contemporary Global Issues
F, W, S, U (3)

ECE 351
Signals & Systems I
F, W(3)

ECE 352
Signals & Systems II
W, S(4)

ECE 353
Intro. to Probability &
Random Signals
W, S(3)

ENGR 391
Transmission Lines
F, W, S, U (3)

ENGR 351
Intro. to Probability &
Random Signals
W, S(3)

CS 391
Ethics in CS
F, W, S, U (3)

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ELECTRICAL & COMPUTER ENGINEERING

FIFTH YEAR

Fall

- ECE 390
  Or
  CS 311
  F, (4)

Winter

- ECE 4xx
  Senior level elective

- ECE 441
  Engineering Design Project
  F(3)

Spring

- Elective 4xx
  Senior level elective

- ECE 442
  Engineering Design Project
  W(3)

- ECE 443
  Engineering Design Project
  S(2)

- ECE 4xx
  Senior level elective

- ECE 4xx
  Senior level elective

- ECE 4xx
  Senior level elective

- Restricted Elective
  Elective (3-4)

- Restricted Elective
  Elective (3-4)

MTH 255, & ENGR 203 con.

ECE 322 & ECE 351 & CS 261 & WR 327 & (Senior Standing in ECE)

Shaded courses are part of the pro-core coursework

Electives are chosen from an approved list available at

Academic Year: 2016-2017