# COMPUTER ENGINEERING

## Catalog Term: Spring 2018

### FRESHMAN

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| ENGL 101 (3)  
College English I  
Grade C- or better | ENGL 102 (3)  
College English II  
Grade of C- or better  
Prereq: ENGL 101 Grade C or better |
| MATH 242 (5)  
Calculus I  
Prereq: See Course Catalog | MATH 243 (5)  
Calculus II  
Prereq: MATH 242 Grade C or better |
| General Education  
H/FA/S&BSc (3)  
Note b | General Education  
H/FA/S&BSc (3)  
Note b |
| CS 194 (4)  
Introduction to Digital Design  
Prereq: Math 111 or equivalent | CS 211 (4)  
Intro to Programming  
Prereq: Math 111 or equivalent |

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| COMM 111 (3)  
Public Speaking  
Grade C- or better | Math 555 (3)  
Differential Equations I  
Prereq: Math 243 Grade C or better or Departmental Consent |
| MATH 321/CS 321 (3)  
Discrete Structures I  
Prereq: Math 242 or equivalent  
Grade C or better | PHYS 314 (4)  
Physics for Scientist II  
Prereq: MATH 243 and PHYS 313 Grade C or better |
| PHYS 313 (4)  
Physics for Scientist I  
Coreq: MATH 243 Grade C or better | EE 284 (3)  
Circuits II  
Prereq: EE 282 & MATH 243 C- or better  
Coreq: MATH 555 |
| CS 238 (3)  
Assembly Language Programming  
Prereq: CS 211 Grade C- or better | CS 311 (4)  
Object-Oriented Programming  
Prereq: CS 211 Grade C- or better |
| EE 282 (4)  
Circuits I  
Coreq: Math 243 | CS 394 (3)  
Introduction to Computer Architecture  
OFFERED SPRING ONLY  
Prereq: CS 194 and CS 211 Grade C- or better |

### JUNIOR

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| IME 255 (3)  
Engineering Economy  
Coreq: MATH 242 or 251 | Phil 254 (3)  
Ethics & Computers  
OFFERED SPRING ONLY  
Prereq: Junior standing or Departmental consent |
| MATH 511 (3)  
Linear Algebra  
Prereq: MATH 243 Grade C or better | IME 254 (3)  
Engineering Probability & Statistics I  
Prereq: MATH 243 or 252 Grade C or better |
| CS 400 (4)  
Data Structures  
Prereq: CS 311 Grade C- or better | Chemistry 211 (5)  
General Chemistry I  
Prereq: CHEM 101, 103 or 110  
Coreq: MATH 111 |
| EE 492 (4)  
Electronic Circuits I  
Coreq: EE 284 | CS 540 (3)  
Operating Systems  
Prereq: CS 238 and 311 Grade C- or better |
| General Education  
H/FA/S&BSc (3)  
Note b | Technical Elective (3)  
Note b |
| Engineer of 2020 Requirement (1 of 3) | Engineer of 2020 Requirement (2 of 3) |

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| General Education  
H/FA/S&BSc (3)  
Note b | General Education  
H/FA/S&BSc (3)  
Note b |
| AE 223 (3)  
Statics  
Prereq: PHYS 313  
Coreq: MATH243 | ME 398 (3)  
Thermodynamics I  
Prereq: MATH 243 and PHYS 313 Grade C or better |
| CS 594 (4)  
Microprocessor Based System Design  
OFFERED FALL ONLY  
Prereq: CS 238 and CS 394 Grades C- or better | CS 464 (3)  
Computer Networks  
OFFERED SPRING ONLY  
Prereq: CS 311 and IME 254 Grade C or better |
| Technical Elective (4)  
Note a | Technical Elective (4)  
Note a |
| EE 585 (2)  
Electrical Design Project I  
Prereq: Senior Standing, PHIL 354 or 385 and CS 480 or EE 492 Grades C- or better in each | EE 595 (2)  
Electrical Design Project II  
Prereq: EE 585 Grade C- or better |
| Engineer of 2020 Requirement (3 of 3) | Engineer of 2020 Requirement (3 of 3) |

### SENIOR

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Note b | General Education  
H/FA/S&BSc (3)  
Note b |
| AE 223 (3)  
Statics  
Prereq: PHYS 313  
Coreq: MATH243 | ME 398 (3)  
Thermodynamics I  
Prereq: MATH 243 and PHYS 313 Grade C or better |
| CS 594 (4)  
Microprocessor Based System Design  
OFFERED FALL ONLY  
Prereq: CS 238 and CS 394 Grades C- or better | CS 464 (3)  
Computer Networks  
OFFERED SPRING ONLY  
Prereq: CS 311 and IME 254 Grade C or better |
| Technical Elective (4)  
Note a | Technical Elective (4)  
Note a |
| EE 585 (2)  
Electrical Design Project I  
Prereq: Senior Standing, PHIL 354 or 385 and CS 480 or EE 492 Grades C- or better in each | EE 595 (2)  
Electrical Design Project II  
Prereq: EE 585 Grade C- or better |
| Engineer of 2020 Requirement (3 of 3) | Engineer of 2020 Requirement (3 of 3) |

### NOTES:
- (a) At least 6 of the 11 technical elective hours must be from the EECS Department. Up to 2 credit hours of Co-op courses can be used as non-departmental technical electives.
- (b) Humanities/Fine Arts/Social & Behavioral Science/Natural Science courses must be from an approved list which appears in the Schedule of Courses. Prereq = Prerequisite. Coreq = Corequisite. All prerequisites for EECS courses must be passed with a C- or better.

Last Updated: 10/2017