

ELECTRICAL AND COMPUTER ENGINEERING TRACKING SHEET

FIRST YEAR

FALL Freshman

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| Freshman Engineering Clinic I (ENGR01.101) | 2 | |
| Accelerated Calculus I (MATH01.140) | 4 | |
| Adv. College Chemistry I (CHEM06.105) | 4 | |
| Composition I (ENGL01.111) | 3 | |
| Digital I (ECE09.241) | 3 | |
| Total | 16 | |

SPRING Freshman

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|---|-----------|--|
| Freshman Engineering Clinic II (ENGR01.102) | 2 | |
| Accelerated Calculus II (MATH01.141) | 4 | |
| Introductory Mechanics (PHYS02.200) | 4 | |
| Computer Science and Programming (CS04.103) | 4 | |
| Gen Ed / Rowan Exp I ¹ | 3 | |
| Total | 17 | |

SECOND YEAR

FALL Sophomore

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|---|-----------|--|
| Sophomore Engineering Clinic I (ENGR01.201) | 4 | |
| Math for Engineering Anal I (MATH01.235) | 4 | |
| Electricity and Magnetism (PHYS02.201) | 4 | |
| Network I (ECE09.201) | 2 | |
| Network II (ECE09.202) | 2 | |
| Total | 16 | |

SPRING Sophomore

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|--|-----------|--|
| Sophomore Engineering Clinic II (ENGR01.202) | 4 | |
| Math for Engineering Anal II (MATH01.236) | 4 | |
| Statics (ENGR01.271) | 2 | |
| Dynamics (ENGR01.291) | 2 | |
| Electronics I (ECE09.311) | 2 | |
| Gen Ed / Rowan Exp I ¹ | 3 | |
| Total | 17 | |

THIRD YEAR

FALL Junior

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|--|-----------|--|
| Junior Engineering Clinic I (ENGR01.301) | 2 | |
| Engineering Clinic Consultant I ¹ (ECE09.360) | 1 | |
| Systems & Control I (ECE09.321) | 3 | |
| Engineering Electromagnetics I (ECE09.301) | 2 | |
| Engineering Electromagnetics II (ECE09.302) | 2 | |
| Computer Architecture I (ECE09.443) | 2 | |
| Gen Ed / Rowan Exp III (MicroeconECON04.102) | 3 | |
| Total | 15 | |

SPRING Junior

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|--|-----------|--|
| Junior Engineering Clinic II (ENGR01.302) | 2 | |
| Engineering Clinic Consultant I ¹ (ECE09.362) | 1 | |
| Data Structures for Engineers ² (CS04.225) | 3 | |
| Digital Signal Processing (ECE09.351) | 3 | |
| Electrical Communication Systems (ECE09.331) | 4 | |
| Digital II: Microprocessors (ECE09.242) | 3 | |
| Total | 16 | |

FOURTH YEAR

FALL Senior

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|---|-----------|--|
| Senior Engineering Clinic I (ENGR01.401) | 2 | |
| Engineering Clinic Consultant II ¹ (ECE09.460) | 1 | |
| CpE Core Elective ⁴ | 3 | |
| CpE Elective ⁴ | 3 | |
| EE Core Elective ⁴ | 3 | |
| Technology Focus Elective ⁵ | 3 | |
| Total | 15 | |

SPRING Senior

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|---|-----------|--|
| Senior Engineering Clinic II (ENGR01.402) (WI) | 2 | |
| Engineering Clinic Consultant II ¹ (ECE09.462) | 1 | |
| Seminar: Engineering Frontiers (ECE09.498) | 1 | |
| ECE Elective ⁴ | 3 | |
| Technology Focus Elective ⁵ | 3 | |
| Gen Ed / Rowan Exp IV ¹ | 3 | |
| Gen Ed / Rowan Exp V ¹ | 3 | |
| Total | 16 | |

Notes:

1. General Education courses chosen to satisfy banks of Social and Behavioral Science (SBS), 6 SCH; History, Humanities, and Language (HHL), 6 SCH; and Artistic and Creative Experience (ACE), 3 SCH. Also must satisfy Multicultural/Global (MC/G), Literature (LIT).
2. Java-based language course if available.
3. Clinic consultant is a 1-hour experience guided by the ECE Discipline Managers.
4. Computer Engineering (CpE), Electrical Engineering (EE), and Electrical and Computer Engineering (ECE) electives are chosen w/ consent of advisor to meet student and program goals. CpE electives may include approved CS courses.
5. Technology Focus Electives are chosen w/ consent of advisor to meet student and program goals and are typically multidisciplinary engineering or interdisciplinary courses.