

## ELECTRICAL AND COMPUTER ENGINEERING TRACKING SHEET

### FIRST YEAR

#### FALL Freshman

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	
<b>Total</b>	<b>16</b>	

#### SPRING Freshman

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 <sup>1</sup>	3	
<b>Total</b>	<b>17</b>	

### SECOND YEAR

#### FALL Sophomore

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	
<b>Total</b>	<b>16</b>	

#### SPRING Sophomore

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 <sup>1</sup>	3	
<b>Total</b>	<b>17</b>	

### THIRD YEAR

#### FALL Junior

Junior Engineering Clinic I (ENGR01.301)	2	
Engineering Clinic Consultant I <sup>1</sup> (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	
<b>Total</b>	<b>15</b>	

#### SPRING Junior

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

### FOURTH YEAR

#### FALL Senior

Senior Engineering Clinic I (ENGR01.401)	2	
Engineering Clinic Consultant II <sup>1</sup> (ECE09.460)	1	
CpE Core Elective <sup>4</sup>	3	
CpE Elective <sup>4</sup>	3	
EE Core Elective <sup>4</sup>	3	
Technology Focus Elective <sup>5</sup>	3	
<b>Total</b>	<b>15</b>	

#### SPRING Senior

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

#### 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.