

**Sample Schedule for ECE/BME Additional Majors in the BSIP Track**

Updated 4/26/22

**Electrical and Computer Engineering**

**First Year**

	<b>Fall</b>	<b>Units</b>
21-120	Differential & Integral Calculus	10
33-141	Physics I for Engineering Students	12
18-100	Introduction to ECE	12
76-101	Interpretation and Argument	9
99-101	Computing@Carnegie Mellon	3
	<b>Total:</b>	<b>46</b>

	<b>Spring</b>	<b>Units</b>
21-122	Integration & Approximation	10
15-112	Fundamentals of Programming and CS	12
xx-101	Engineering Intro Elective (12 units)	12
xx-xxx	General Education Course	9
	<b>Total:</b>	<b>43</b>

**Second Year**

	<b>Fall</b>	<b>Units</b>
18-200	Sophomore ECE Seminar	1
18-xxx	ECE Core Requirement (12)	12
18-202	Mathematical Foundations of Electrical Engineering	12
xx-xxx	General Education Course	9
33-142	Physics II for Engineering and Physics Students	12
	Free Elective	9
39-210	Experiential Learning I	0
	<b>Total:</b>	<b>55</b>

	<b>Spring</b>	<b>Units</b>
18-xxx	ECE Core Requirement	12
21-127	Concepts of Math	10
15-122	Principles of Imperative Computation	10
xx-xxx	Free Elective	9
xx-xxx	General Education Course	9
39-220	Experiential Learning II	0
	<b>Total:</b>	<b>50</b>

**Third Year**

	<b>Fall</b>	<b>Units</b>
18-xxx	ECE Core Requirement	12
18-xxx	ECE Area 1	12
36-225	Probability and Statistics	9
xx-xxx	Free Elective	9
xx-xxx	General Education Course	9
39-310	Experiential Learning III	0
	<b>Total:</b>	<b>51</b>

**Electrical and Computer Engineering + BME**

**First Year**

	<b>Fall</b>	<b>Units</b>
21-120	Differential & Integral Calculus	10
33-141	Physics I for Engineering Students	12
18-100 or <b>42-101</b>	Introduction to ECE or <b>Intro to Biomedical Engineering</b>	12
76-101	Interpretation and Argument	9
99-101	Computing@Carnegie Mellon	3
	<b>Total:</b>	<b>46</b>

	<b>Spring</b>	<b>Units</b>
21-122	Integration & Approximation	10
18-100 or <b>42-101</b>	Introduction to ECE or <b>Intro to Biomedical Engineering</b>	12
15-112	Fundamentals of Programming and CS	12
<b>03-121</b>	<b>Modern Biology</b>	9
	<b>Total:</b>	<b>43</b>

**Second Year**

	<b>Fall</b>	<b>Units</b>
18-200	Sophomore ECE Seminar	1
18-xxx	ECE Core Requirement (12)	12
18-202	Mathematical Foundations of Electrical Engineering	12
xx-xxx	General Education Course	9
33-142	Physics II for Engineering and Physics Students	12
<b>42-201</b>	<b>Professional Issues in BME</b>	3
<b>42-202 or 42-203</b>	<b>Physiology or BME Laboratory</b>	9
39-210	Experiential Learning I	0
	<b>Total:</b>	<b>58</b>

	<b>Spring</b>	<b>Units</b>
18-xxx	ECE Core Requirement	12
21-127	Concepts of Math	10
15-122	Principles of Imperative Computation	10
<b>42-202 or 42-203</b>	<b>Physiology or BME Laboratory</b>	9
xx-xxx	General Education Course	9
39-220	Experiential Learning II	0
	<b>Total:</b>	<b>50</b>

**Third Year**

	<b>Fall</b>	<b>Units</b>
18-xxx	ECE Core Requirement	12
18-xxx	ECE Area 1	12
36-225	Probability and Statistics	9
<b>42-xxx or 42-302</b>	<b>BSIP Track Elective or BME Systems Modeling and Analysis</b>	9
xx-xxx	General Education Course	9
39-310	Experiential Learning III	0
	<b>Total:</b>	<b>51</b>

	<b>Spring</b>	<b>Units</b>
18-xxx	ECE Core Requirement	12
18-xxx	ECE Area 2	12
xx-xxx	Math/Science Elective	9
xx-xxx	Free Elective	9
xx-xxx	General Education Course	9
	<b>Total:</b>	<b>51</b>

**Fourth Year**

	<b>Fall</b>	<b>Units</b>
xx-xxx	ECE Coverage	12
18-xxx	ECE Course 2 from Area 1	12
xx-xxx	Math/Science Elective II	9
xx-xxx	Free Elective	3
xx-xxx	General Education Course	9
	<b>Total:</b>	<b>45</b>

	<b>Spring</b>	<b>Units</b>
18-5xx	ECE Capstone Design	12
xx-xxx	Free Elective	9
xx-xxx	Free Elective	9
xx-xxx	General Education Course	9
	<b>Total:</b>	<b>39</b>

	<b>Spring</b>	<b>Units</b>
18-xxx	ECE Core Requirement	12
18-xxx	ECE Area 2	12
xx-xxx	Math/Science Elective	9
<b>42-xxx or 42-302</b>	<b>BSIP Track Elective or BME Systems Modeling and Analysis</b>	<b>9</b>
xx-xxx	General Education Course	9
	<b>Total:</b>	<b>51</b>

**Fourth Year**

	<b>Fall</b>	<b>Units</b>
xx-xxx	ECE Coverage	12
18-xxx	ECE Course 2 from Area 1	12
<b>42-401</b>	<b>Foundations of BME Design</b>	<b>6</b>
<b>42-xxx</b>	<b>BSIP Track Elective</b>	<b>9</b>
xx-xxx	General Education Course	9
	<b>Total:</b>	<b>48</b>

	<b>Spring</b>	<b>Units</b>
18-5xx	ECE Capstone Design	12
<b>42-xxx</b>	<b>BSIP Track Elective</b>	<b>9</b>
<b>42-402</b>	<b>BME Design</b>	<b>9</b>
xx-xxx	General Education Course	9
xx-xxx	General Education Course	9
	<b>Total:</b>	<b>48</b>

Minimum no. of units to graduate: 380 (ECE), 385 (ECE/BME)