

Sample Schedule for ECE/BME Additional Major
Updated 11/1/2023

ECE		ECE+BME	
First year	Units	First year	Units
Fall		Fall	
15-112 Fundamentals of Programming and Computer Science	12	15-112 Fundamentals of Programming and Computer Science	12
21-120 Differential and Integral Calculus	10	21-120 Differential and Integral Calculus	10
18-100 Intro to ECE	12	18-100 Intro to ECE or 42-101 Intro to BME	12
99-101 Computing @ Carnegie Mellon	3	99-101 Computing @ Carnegie Mellon	3
76-101 Interpretation and Argument	9	76-101 Interpretation and Argument	9
Total:	46	Total:	46
Spring		Spring	
21-122 Integration and Approximation	10	21-122 Integration and Approximation	10
xx-xxx Introduction to Engineering	12	18-100 Intro to ECE or 42-101 Intro to BME	12
33-141 Physics I for Engineering Students	12	33-141 Physics I for Engineering Students	12
xx-xxx General Education Course	9	03-121 Modern Biology (Math/Science Elective 1)	9
Total:	43	Total:	43
Second year		Second year	
Fall		Fall	
18-200 ECE Sophomore Seminar	1	18-200 ECE Sophomore Seminar	1
18-2xx ECE Core Course	12	18-2xx ECE Core Course	12
18-202 Mathematical Foundations of Electrical Engineering	12	18-202 Mathematical Foundations of Electrical Engineering	12
33-142 Physics II for Engineering and Physics Students	12	33-142 Physics II for Engineering and Physics Students	12
xx-xxx General Education Course	9	xx-xxx General Education Course	9
39-210 Experiential Learning I	0	42-202 Physiology or 42-203 BME Laboratory	9
Total:	46	39-210 Experiential Learning I	0
		Total:	55
Spring		Spring	
18-2xx ECE Core Course	12	18-2xx ECE Core Course	12
15-122 Principles of Imperative Computation	12	15-122 Principles of Imperative Computation	12
21-127 Concepts of Mathematics	12	21-127 Concepts of Mathematics	12
36-219 Probability Theory and Random Processes	9	36-219 Probability Theory and Random Processes	9
xx-xxx Free Elective	9	42-202 Physiology or 42-203 BME Laboratory	9
39-220 Experiential Learning II	0	39-220 Experiential Learning II	0
Total:	54	Total:	54
Third year		Third year	
Fall		Fall	
18-2xx ECE Core Course	12	18-2xx ECE Core Course	12
18-3xx/4xx ECE Area Requirement	12	18-3xx/4xx ECE Area Requirement	12
xx-xxx Math/Science Elective 1	9	42-302 BME Systems Modeling and Analysis or 42-xxx BME Track Elective	9
xx-xxx General Education Course	9	42-201 Professional Issues in BME	3
xx-xxx Free Elective	9	xx-xxx General Education Course	9
39-310 Experiential Learning III	0	xx-xxx General Education Course	9
Total:	51	39-310 Experiential Learning III	0
		Total:	54
Spring		Spring	
18-2xx ECE Core Course	12	18-2xx ECE Core Course	12
18-3xx/4xx ECE Area Requirement	12	18-3xx/4xx ECE Area Requirement	12
xx-xxx Math/Science Elective 1	9	xx-xxx Math/Science Elective 2	9
xx-xxx General Education Course	9	xx-xxx General Education Course	9
xx-xxx Free Elective	9	42-302 BME Systems Modeling and Analysis or 42-xxx BME Track Elective	9
Total:	51	Total:	51
Forth year		Forth year	
Fall		Fall	
18-xxx ECE Coverage Requirement	12	18-xxx ECE Coverage Requirement	12
18-3xx/4xx ECE Area Requirement	12	18-3xx/4xx ECE Area Requirement	12
xx-xxx Free Elective	9	42-401 Foundations of BME Design	6
xx-xxx General Education Course	9	42-xxx BME Track Elective	9
Total:	42	xx-xxx General Education Course	9
		Total:	48
Spring		Spring	
18-500 ECE Design Experience	12	18-500 ECE Design Experience	12
xx-xxx Free Elective	9	42-402 BME Design	9
xx-xxx Free Elective	7	42-xxx BME Track Elective	9
xx-xxx General Education Course	9	xx-xxx General Education Course	9
xx-xxx General Education Course	9	xx-xxx General Education Course	9
Total:	46	Total:	48

Minimum no. of units to graduate: 379 (ECE), 399 (BME/ECE)

Note: This sample schedule serves as a starting point to help students plan their class schedules. Students are advised and strongly encouraged to discuss their plans with the academic advisors.