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

EnvE		***EnvE + BME***	
First year	Units	First year	Units
Fall		Fall	
12-100 Exploring CEE	12	12-100 Exploring CEE or **42-101 Intro to BME**	**12**
21-120 Differential & Integral Calculus	10	21-120 Differential & Integral Calculus	10
33-141 Physics for Engineering Students I	12	33-141 Physics for Engineering Students I	12
99-10x Computing@Carnegie Mellon	3	99-10x Computing@Carnegie Mellon	3
xx-xxx General Education Course	9	**03-121 Modern Biology**	**9**
Total:	**46**	**Total:**	**46**
Spring		Spring	
xx-xxx Introduction to Engineering (other than CEE)	12	12-100 Exploring CEE or **42-101 Intro to BME**	**12**
21-122 Integration & Approximation	10	21-122 Integration & Approximation	10
33-142 Physics II for Engineering Students	12	33-142 Physics II for Engineering Students	12
09-111 Nanolegos: Chemical Building Blocks		09-111 Nanolegos: Chemical Building Blocks	
or 09-105 Introduction to Modern Chemistry I	10	or 09-105 Introduction to Modern Chemistry I	10
09-101 Introduction to Experimental Chemistry	3	09-101 Introduction to Experimental Chemistry	3
Total:	**47**	**Total:**	**47**
Second year		Second year	
Fall		Fall	
12-200 CEE Challenges: Design in a Changing World	9	12-200 CEE Challenges: Design in a Changing World	9
12-221 Environmental Chemisry and Thermodynamics	9	12-221 Environmental Chemisry and Thermodynamics	9
12-222 Environmental Chemistry Lab	3	12-222 Environmental Chemistry Lab	3
15-110 Principles of Computing	10	15-110 Principles of Computing	10
21-254 Linear Algebra and Vector Calculus for Engineers	11	21-254 Linear Algebra and Vector Calculus for Engineers	11
39-210 Experiential Learning I	0	39-210 Experiential Learning I	0
xx-xxx General Education Course	9	**42-202 Physiology or 42-203 BME Laboratory**	**9**
Total:	**51**	**Total:**	**51**
Spring		Spring	
12-271 Computation and Data Science for CEE	9	12-271 Computation and Data Science for CEE	9
12-351 Environmental Engineering	9	12-351 Environmental Engineering	9
12-352 Environmental Engineering Lab	3	12-352 Environmental Engineering Lab	3
21-260 Differential Equations	9	21-260 Differential Equations	9
39-220 Experiential Learning II	0	39-220 Experiential Learning II	0
xx-xxx General Education Course	9	xx-xxx General Education Course	9
xx-xxx Elective 1	9	**42-202 Physiology or 42-203 BME Laboratory**	**9**
		42-201 Professional Issues in BME	**3**
Total:	**48**	**Total:**	**51**
Third year		Third year	
Fall		Fall	
12-301 CEE Projects: Integrating the Built, Natural and Information Environments	9	12-301 CEE Projects: Integrating the Built, Natural and Information Environments	9
12-355 Fluid Mechanics	9	12-355 Fluid Mechanics	9
12-356 Fluid Mechanics Lab	2	12-356 Fluid Mechanics Lab	2
03-121 Modern Biology	9	**42-302 BME Systems Modeling and Analysis or 42-xxx BME Track Elective**	**9**
36-220 Engineering Statistics and Quality Control	9	36-220 Engineering Statistics and Quality Control	9
39-310 Experiential Learning III	0	39-310 Experiential Learning III	0
xx-xxx General Education Course	9	xx-xxx General Education Course	9
		xx-xxx General Education Course	9
Total:	**47**	**Total:**	**56**
Spring		Spring	
12-353 Environmental Biology and Ecology	9	12-353 Environmental Biology and Ecology	9
12-371 Advanced Computing and Problem Solving	9	12-371 Advanced Computing and Problem Solving	9
12-201 Geology	9	12-201 Geology	9
xx-xxx Elective 2	6	**42-302 BME Systems Modeling and Analysis or 42-xxx BME Track Elective**	**9**
xx-xxx Elective 3	9	xx-xxx General Education Course	9
xx-xxx General Education Course	9	xx-xxx General Education Course	9
Total:	**51**	**Total:**	**54**
Forth year		Forth year	
Fall		Fall	
12-401 CEE Design: Imagine, Build, Test	12	12-401 CEE Design: Imagine, Build, Test	12
12-411 Project Management for Construction	9	12-411 Project Management for Construction	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
xx-xxx General Education Course	9	**42-401 Foundations of BME Design**	**6**
		42-xxx BME Track Elective	**9**
Total:	**48**	**Total:**	**54**
Spring		Spring	
12-451 Advanced Environmental Engineering	9	12-451 Advanced Environmental Engineering	9
12-471 Applied Data Analytics for Civil and Environmental Systems	9	12-471 Applied Data Analytics for Civil and Environmental Systems	9
xx-xxx Upper Level Environmental Engineering Elective	9	xx-xxx Upper Level Environmental Engineering Elective	9
xx-xxx Elective 4	9	**42-402 BME Design**	**9**
xx-xxx Elective 5	9	**42-xxx BME Track Elective**	**9**
		xx-xxx General Education Course	9
Total:	**45**	**Total:**	**54**

Minimum no. of units to graduate: 383 (EnvE), 413 (BME/EnvE)

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.