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

CivE		***CivE + 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	xx-xxx General Education Course	9
Total:	**46**	**Total:**	**46**
Spring		Spring	
xx-xxx Introduction to Engineering	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
09-101 Introduction to Experimental Chemistry	3	09-101 Introduction to Experimental Chemistry	3
xx-xxx General Education Course	9	**03-121 Modern Biology**	**9**
Total:	**46**	**Total:**	**46**
Second year		Second year	
Fall		Fall	
12-200 CEE Challenges	9	12-200 CEE Challenges	9
12-212 Statics	9	12-212 Statics	9
12-233 CEE Infrastructure Systems in Action	2	12-233 CEE Infrastructure Systems in Action	2
21-259 Calculus in Three Dimensions	9	21-259 Calculus in Three Dimensions	9
15-110 Principles of Computing	10	15-110 Principles of Computing	10
xx-xxx General Education Course	9	**42-202 Physiology or 42-203 BME Laboratory**	**9**
39-210 Experiential Learning I	0	39-210 Experiential Learning I	0
		42-201 Professional Issues in BME	**3**
Total:	**48**	**Total:**	**51**
Spring		Spring	
12-231 Solid Mechanics	9	12-231 Solid Mechanics	9
12-234 Sensing and Data Acquisition for Engineering Systems	4	12-234 Sensing and Data Acquisition for Engineering Systems	4
12-271 Computation and Data Science for Civil & Environmental Engineering	9	12-271 Computation and Data Science for Civil & Environmental Engineering	9
21-260 Differential Equations	9	21-260 Differential Equations	9
36-220 Engineering Statistics and Quality Control	9	36-220 Engineering Statistics and Quality Control	9
xx-xxx General Education Course	9	**42-202 Physiology or 42-203 BME Laboratory**	**9**
39-220 Experiential Learning II	0	39-220 Experiential Learning II	0
Total:	**49**	**Total:**	**49**
Third year		Third year	
Fall		Fall	
12-301 CEE Projects	9	12-301 CEE Projects	9
12-335 Soil Mechanics	9	12-335 Soil Mechanics	9
12-355 Fluid Mechanics	9	12-355 Fluid Mechanics	9
12-356 Fluid Mechanics Lab	2	12-356 Fluid Mechanics Lab	2
09-111 Nanolegos: Chemical Building Blocks	9	09-111 Nanolegos: Chemical Building Blocks	9
xx-xxx Elective 1	9	**42-302 BME Systems Modeling and Analysis or 42-xxx BMEC Track Elective**	**9**
39-310 Experiential Learning III	0	39-310 Experiential Learning III	0
		xx-xxx General Education Course	9
Total:	**47**	**Total:**	**56**
Spring		Spring	
12-351 Environmental Engineering	9	12-351 Environmental Engineering	9
27-357 Introduction to Materials Selection	6	27-357 Introduction to Materials Selection	6
12-371 Advanced Computing and Problem Solving in Civil and Environmental Engineering	9	12-371 Advanced Computing and Problem Solving in Civil and Environmental Engineering	9
12-333 Experimental & Sensing Systems Design and Computation for Infrastructure Systems	4	12-333 Experimental & Sensing Systems Design and Computation for Infrastructure Systems	4
xx-xxx Elective 2	9	**42-302 BME Systems Modeling and Analysis or 42-xxx BME Track Elective**	**9**
xx-xxx General Education Course	9	xx-xxx General Education Course	9
		xx-xxx General Education Course	9
Total:	**46**	**Total:**	**55**
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 Engineering and Construction	9	12-411 Project Management for Engineering and Construction	9
xx-xxx Elective 3	9	**42-401 Foundations of BME Design**	**6**
xx-xxx Elective 4	9	**42-xxx BME Track Elective**	**9**
xx-xxx General Education Course	9	xx-xxx General Education Course	9
		xx-xxx General Education Course	9
Total:	**48**	**Total:**	**54**
Spring		Spring	
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 Elective 5	9	**42-402 BME Design**	**9**
xx-xxx Elective 6	9	**42-xxx BME Track Elective**	**9**
xx-xxx Elective 7	9	xx-xxx Elective 7	9
xx-xxx Elective 8	9	xx-xxx Elective 8	9
Total:	**54**	**Total:**	**54**

Minimum no. of units to graduate: 384 (CivE), 411 (BME/CivE)

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.