

Department of Bioengineering Curriculum Electives List, Spring 12

BioE Fundamentals	Engineering /Biology Preparation	BioE Topics	Engineering Topics	Upper Div Biology Electives	Technical Electives
BioE 101	E 45	BioE 22/22L	ChemE 140	Chemistry 135	Bio 1B
BioE 102	EE 20N	BioE 101	ChemE 141	IB 115	Chemistry 3B
BioE 104	EE 40 or EE 100 (for non majors)	BioE 102	ChemE 150A	IB 127 & 127L	Chemistry 120A
BioE 110	CS 61B or CS61BL	BioE 104	ChemE 150B	IB 131	Chemistry 120B
BioE 116	MCB C100A/Chem C130	BioE C105B	ChemE 170A	IB 132	Chemistry C130/MCB C100A
BioE 131	Chem 120B may be taken instead	BioE 110	ChemE 170B	IB 135	Chemistry 130B
BioE 150	with consent of instrutor	BioE 111	Chem E170L	IB 148	CS 61B or CS61BL
	CE C30/ME C85	BioE 112	ChemE 171	IB C163	Math 55 or CS 70
		BioE 113	ChemE C178	MCB C100A/Chem C130	Math 110
BioE Lab Courses	Bioengineering Design	BioE 115	CE C30/ME C85	MCB 100B	Math 118
BioE 22/22L	Project or Research	BioE 116	CE 130N	MCB 102	Math 127
BioE 101	BioE 121L	BioE C117	CS 61A	MCB 110	Math 128A
BioE 115	BioE 140L	BioE C118	CS 61B or CS61BL	MCB 111	Math 170
BioE 121L	BioE 168L	BioE C119	CS 170	MCB 130A	NUSC TX 121
BioE C136L	BioE 192 (Capstone Class)	BioE 121	CS 186	MCB 132	Physics 7C
BioE 140L	BioE H194	BioE 121L	CS C191	MCB 133L	Physics 110A
BioE C144L	BioE 196	BioE C125	E7	MCB 136	Physics 112
BioE C145L		BioE 131	E45	MCB 140	Physics 137A
BioE C145M		BioE 132	E115	MCB 140L	Physics 177
BioE 168L		BioE 135	E170	MCB C145/PMB C145	Physics C191
		BioE/IB C135L	E190	MCB C148/PMB C148	Public Health 143
		BioE 140L	EE 20N	MCB 150	Stat 133
		BioE C141	EE 40	MCB C160/NeurSci C160	Stat 134 or *IEOR 172
		BioE 142	EE 100	MCB 160L	Stat 135
		BioE 143	EE 105	MCB 166	Stat 150
		BioE C144	EE 117	PMB/MCB C112	and/or any BioE Topics class
		BioE C144L	EE 120	PMB 185	and/or any Engineering Topics class
		BioE C145L	EE 126		and/or any Upper Div Bio Elective
		BioE C145M	EE 129		
		BioE C146	EE 142		
		BioE 147	EE 143		
		BioE 150	EE 192		

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	Ethics Requirement	BioE Topics	Engineering Topics	Upper Division Biology	Technical Elective
	<i>Fulfills Humanities/Social Studies Requirement and Ethics Content.</i>	BioE 151	IEOR 162		
	Anthro 156B	BioE 163	ME 102B (formerly ME102)		
	BioE 100	BioE 163L	ME 104		
	E125	BioE 164	ME 106		
	ESPM 161	BioE C165	ME 109		
	ESPM 162	BioE 168L	ME118		
	L&S 160B	BioE 190A-H	ME119		
	Philosophy 2, C104, 107		ME 128		
	Engineering 125		ME 132		
	<i>Fulfills Ethics Content Only</i>		ME 133		
	Public Health 116, formerly IDS 130		ME 167		
			ME 185		
			MSE 102		
			MSE 104		
			MSE 111		
			MSE 113		
			MSE 151		
			NE 101		
			NE 107		
			NE 170B		
			BioE 192		
			BioE H194		
			Bio 196		
			and/or any BioE topics class		

Note program of study must include :

45 units of engineering are required (upper & lower division); these must be chosen from the BioE & Engineering Topics Lists.

42 units of upper division technical courses (math, science, engineering) and of these 22 units must be in Bioengineering.

*Students may take either Stat 134 or IEOR 172 which is considered a stat class. Please note **IEOR 172 DOES NOT** count as an engineering elective and can not be counted towards the 45 units of engineering courses. *Students may take either Math 55 or CS70 but not both. CS 70 counts as a Technical Elective and not an Engineering Elective. Courses should be taken from the approved BioE Curriculum Electives List.