

BME UNDERGRADUATE COURSES

Course Schedule 2022-23

Required				
BIM 1	2	Introduction to Biomedical Engineering	Choi	Fall
BIM 20	4	Fundamentals of Bioengineering	Yamada	Spring
BIM 20L	2	Graphics Design for BME	Passerini	Spring
BIM 105	4	Probability & Data Science for Biomedical Engineers	Aviran	Fall
BIM 106	4	Biotransport Phenomena	Tan	Winter
BIM 107	2	Manufacturing Processes for BME	Carney	Winter
BIM 108	4	Biomedical Signals and Control	Qi	Spring
BIM 109	4	Biomaterials	Panitch	Spring
BIM 110 ABC	8	BME Senior Design Experience	Choi/Wang	F/W/S
BIM 111	6	Biomedical Instrumentation Laboratory	Wang	Fall
BIM 116 or NPB 101	5	Physiology for Biomedical Engineers	George	Fall
Science Electives				
BIM 202	4	Cellular Dynamics (requires instructor permission)	Yamada	Fall
Engineering Electives				
BIM 140	4	Protein Engineering	Duan	Spring
BIM 141	4	Cell and Tissue Mechanics	Sivasankar	Winter
BIM 142	4	Principles and Practices of Biomedical Imaging	Cherry	Spring
BIM 143	4	Biomolecular Systems Engineering: Synthetic Biology	Facciotti	Spring
BIM 143L	2	Synthetic Biology Lab	Facciotti	Spring
BIM 144	4	Fundamentals of Biophotonics and Bioimaging	Carney	Spring
BIM 152	4	Molecular Control of Biosystems	Saiz	Winter
BIM 162	4	Introduction to the Biophysics of Molecules and Cells	Heinrich	Fall
BIM 163	4	Bioelectricity, Biomechanics & Signaling Systems	Chen-Izu	Spring
BIM 170	2	Aspects of Medical Device Design and Manufacturing	Chigazola	Fall
BIM 171	4	Clinical Applications for Biomedical Device Design	Tran	Fall
BIM 172	2	Introduction to Neuroengineering Lab	Moxon	Winter
BIM 173	4	Cell and Tissue Engineering	Silva	Fall
BIM 189C	4	Computational tools in Bioengineering & Biomedicine	Saiz	Winter
Engineering Electives - Skills Modules				
BIM 174	2	Microcontroller Applications Lab	Choi	Fall
BIM 189C	2	Introduction to Rapid Prototyping for BME	Passerini	Winter
Professional Development Courses (Non-Degree)				
BIM 88V	2	Introduction to Research	Louie	Winter/Spring