List of Courses for 'BME' Electives Approved on Jan 14, 2022

Updated on Feb 10, 2023

The courses listed below are options for your BME Electives. Please confirm suitability and approval from your advisor.

Course Code	Course Title	Offered		Undergrad Credit only	Undergrad / Grad Credit	Grad Credit only	NOTES
BME 3111	Bioimaging Lab	SPRING	Annual	✓			# ^
BME 3121	Biotransport Lab	SPRING	Annual	✓			# ^
BME 3131	Bioelectricity Lab	FALL	Annual	✓			# ^
BME 3141	Biomechanics Lab	FALL	Annual	✓			# ^
BME 3151	Molecular, Cellular, and Tissue Engineering Lab	FALL	Annual	✓			# ^
BME 3161	Biomedical Micro- and Nanotechnology Lab	SPRING	Annual	✓			# ^
BME 3113	Bioimaging	SPRING	Annual	✓			
BME 3133	Bioelectricity	FALL	Annual	✓			
BME 3153	Molecular, Cellular, and Tissue Engineering	FALL	Annual	✓			
BME 3163	Biomedical Micro- and Nanotechnology	SPRING	Annual	✓			
BME 3440 / 3980	Mentored Research	ALL	Annual	√			See Research for Credit Policy
BME 4050	Design Projects in BME	ALL	Annual	✓			See Research for Credit Policy
BME 4281	Engineering Co-Op Program	ALL	Annual	✓			See Advising Handbook
BME 4013 / 5013	Introduction to Medical Device Design	SPRING	Bi-Annual		✓		*
BME 4533 / 5533	Neural Engineering	FALL	Annual		✓		*
BME 4970 / 5970	Special Topics in Biomedical Engineering	FALL/ SPRING	Annual		✓		
BME 5971	Biomedical Engineering Seminar	FALL/ SPRING	Annual		✓		
BME 5283	Immunoengineering	FALL	Annual		✓		
BME 5413	Nanomedicine	FALL	Annual		✓		
BME 5443	Neural System & Rehabilitation Engineering	SPRING	Irregular		✓		
BME 5990	Independent Study (3 credits)	ALL	Annual		✓		
BME/AME 4970 / 5970	Ear Mechanics	FALL	Bi-Annual		✓		*
BME/AME 4213 / 5213	Biomechanics I	SPRING	Bi-Annual		✓		*
BME/CHE 5243	Biochemical Engineering	SPRING	Bi-Annual		✓		
BME/CHE 5293	Transport in Biological Systems	FALL	Irregular		✓		
BME/CHE 5373	Tissue Engineering	FALL	Irregular		✓		
CHE 5453	Polymer Science & Engineering	SPRING	Annual		✓		
BME / CHE 5970	Genetic Eng & Biotechnology	FALL	Bi-Annual		✓		
ECE 4823	Engineering Principles of the Human Body	SPRING	Bi-Annual		✓		
ECE/BME 5843	Medical Imaging Systems	FALL	Annual		✓		
ECE/BME 5853	Biomedical Signals & Systems	SPRING	Irregular		✓		
ECE 6813	Advanced Topics in Biomedical Engineering	SPRING	Bi-Annual			✓	
ECE 5973	Special Topics in Electrical & Computer Engineering	FALL/ SPRING	Annual			✓	&
ECE/BME 6213	Optical Information Processing	SPRING	Irregular			✓	&

[#] Last Offering is 2021/2022 Academic Year

[^] Needs to be combined with other 1 credit courses to make 3 credits

^{*} Undergrad Credit = 4000 level | Grad credit = & 5000 level

[&]amp; Can be approved for undergrad credit in special cases with petition