

No	Course Name	Number	Notes	Term
1	Machine Learning for Biomedical Engineers and Biomechanics	BMEN 619.18		Fall
2	Comp Models in Neuroimaging	BMEN 619.22		Fall
3	Biomaterials & Biocompatibility	BMEN 619.33	Not offered	Fall
4	Statistics for BME	BMEN 619.36	Not offered	Fall
5	Diagnostics	BMEN 619.38		Fall
6	Introduction to Scientific Computing	BMEN 642		Fall
7	Reproducible and Responsible AI	BMEN 619.45		Fall
8	Advanced Topics in Fluid Mechanics	ENCH 631	Not offered	Fall
9	Theory and Applications of the Finite Element Method	ENCI 653	Not offered	Fall
10	Virtual Environments and Applications	ENEL 602	Not offered	Fall
11	Non-linear Control	ENEL 615	Not offered	Fall
12	Micro/Nano System Design, Fabrication and Integration	ENEL 616	Not offered	Fall
13	Experimental Design	ENEL 619.85	Not offered	Fall
14	Data Mining & Machine Learning	ENEL 645		Fall
15	Wireless Networks	ENEL 633 (H)		Fall
16	Analog Integrated Circuit Design	ENEL 647		Fall
17	Advanced Cell and Tissue Engineering	ENCH 659 (H)	Not offered	Fall
18	Advanced Continuum Mechanics	ENME 653 (H)		Fall
19	Advanced Data Analytics	ENSF 620		Fall
20	Inverse Theory and Applications	GOPH 671	Not offered	Fall
21	Biostatistics I: Essentials of Biostatistics	MDCH 610		Fall
22	Cardiovascular Physiology	MDSC 629.01 (H)	Not offered	Fall
23	Medical Imaging Techniques	MDSC 689.01 (H)		Fall
24	Intro to Biostatistical Methods	VETM 605 / MDCH 605		Fall
25	Directed Study	MDSC 755		Fall/Winter
26	Joint Injury and Disease – Biomechanical Focus	MDSC 751.31		Spring
27	Digital Health	BMEN 619.37		Winter
28	Intro to Molecular and Cellular Engineering Techniques	BMEN 619.49		Winter
29	Biometric Technologies and System Design	ENEL 610	Not offered	Winter
30	Advanced Topics in Image Analysis and Machine Learning	ENSF 619.01	Not offered	Winter
31	Wearables and Haptics	CPSC 599.50/601.70	Not offered	Winter
32	Wearable Applications	CPSC 601.36	Not offered	Winter
33	Deep Learning for Vision	CPSC 601.76	Not offered	Winter
34	Chemical Reactor Design	ENCH 623	Not offered	Winter
35	Engineering Principles in Biotechnology	ENCH 673		Winter
36	Fundamentals of Biometric Systems Design	ENCM 509		Winter
37	Micro/Nano System Design, Fabrication and Integration	ENEL 616	Not offered	Winter
38	Biometric Tech & Sys Design	ENEL 619.76 / BMEN 619.16	Not offered	Winter
39	Advanced DSP processor Architecture	ENEL/ENCM 653 (H)	Not offered	Winter
40	Finite Element Method	ENME 647		Winter
41	Fundamentals of Optics and Optical Engineering	ENME 619	Not offered	Winter
42	Image Analysis and Machine Learning	ENSF 619.03	Not offered	Winter
43	Control of Posture and Movement	KNES 603.43 (Lec 02)		Winter
44	Statistical Techniques in Kinesiology	KNES 609		Winter
45	Advanced Muscle Mechanics	KNES 663 (H)	Not offered	Winter
46	Bone/Joint Biomechanics Osteoarthritis	KNES 664		Winter
47	Machine Learning for Health Data Science	MDCH 615		Winter
48	Genes and Development	MDSC 609.02		Winter
49	Cardiovascular Pathophysiology	MDSC 629.02 (H)	not offered	Winter
50	Advanced Magnetic Resonance Imaging	MDSC 689.02 (H)		Winter
51	Advanced Medical Image Processing	BMEN 689/MDSC 689.03 (H)		Winter
52	Medical Imaging Applications	MDSC 689.11 (H)		Winter
53	Basic Principles in Inflammation	MDSC 639.04		Winter
54	Advanced Topics in Stem Cell Biology and Regenerative Medicine	VETM 702		Winter