

Engineering for Professionals - Applied Biomedical Engineering Course Planning Schedule

Course Number	Course Title	Fall	Spring	Summer	Status	Acceptable Transfers / Replacements
585.601	Physiology for Applied Biomedical Engineering I	Online	Online			
585.602	Physiology for Applied Biomedical Engineering II		Online			
585.607	Molecular Biology		Online	Online		
585.612	Biomechanical Engineering in Sports				(in development)	
585.615	Mathematical Methods	Online	Online			615.641, 535.641
585.616	Principles of Medical Instrumentation and Devices	Online				
585.617	Rehabilitation Engineering	Online				
585.619	Regulation of Medical Devices		Online			
585.631	Introduction to Biomechanics		Online			
585.635	Ethics in Biomedical Engineering Research and Management	Online	Optional			
585.685	Methods in Neurobiology	Online	Optional			
585.702	Medical Device Innovation and Design		Online			
585.703	Applied Medical Image Processing	Online				
585.704	Principles of Medical Imaging		Online			
585.705	Clinical Imaging				(in development)	
585.708	Biomaterials			Online		
585.709	Biomechanics of Cells and Stem Cells	Online				
585.710	Biochemical Sensors	Online	Online			
586.711	Global Health Innovation and Design				(in development)	
585.717	Rehabilitation Engineering II		Online			
585.718	Biological Solid & Fluid Mechanics			Online		
585.720	Orthopedic Biomechanics	Online	Optional			
585.723	Functional Neuroimaging and Neural Sensors		Online			
585.724	Neural Prosthetics: Science, Technology	Online	Online			
585.725	Biomedical Engineering Practice and Innovation (highly recommended)			Online		
585.726	Biomimetics in Biomedical Engineering			Online		
585.729	Cell and Tissue Engineering	Online				
585.732	Advanced Signal Processing for Biomedical Engineers		Online			
585.734	Biophotonics		Online			
585.735	Applied Bioelectrical Engineering		Virtual Live			
585.739	Models of the Neuron				(in development)	
585.741	MR Imaging in Medicine		Online			
585.742	Regenerative Tissue Engineering		Online			
585.743	Modeling Approaches to Cell and Tissue Engineering		Online			
585.744	Biomedical Applications of Glycoengineering		Virtual Live			
585.746	Biochemical and Cellular Engineering		Online			
585.747	Advances in Cardiovascular Medicine	Online				
585.751	Immunoengineering		Online			
585.761	Bioentrepreneurship	Online	Online			
585.762	Computational Methods in Biomedical Engineering	Online				
585.770	Global Health Engineering		Online			
585.771	Biomedical Data Science	Online	Online			
585.779	Principles and Applications of Modern X-ray Imaging and Computed Tomography				(in development)	
585.781	Frontiers in Neuroengineering		Online			
585.783	Introduction to Brain-Computer Interfaces			Online		
585.785	Computational Medicine: Cardiology		Online			
585.788	Foundations of Computational Biology and Bioinformatics		Virtual Live			
585.800	Independent Study I	Online	Online	Online		

Core courses		Focus Areas - Core courses are HIGHLIGHTED				
Bio (take 2)	Math (take 1)	Biomechanics	Imaging	Medical Devices	Neuroengineering	Translational Tissue Engineering
Fall & Spring						
Spring						
Spring & Summer						
	Fall & Spring	TBD		TBD		
			Fall	Fall		
				Fall		Fall
				Spring		
		Spring				Spring
Fall & Spring (Opt)					Fall & Spr (Opt)	
		Spring	Spring	Spring	Spring	Spring
	Fall		Fall	Fall		
	Spring		Spring			
			TBD	TBD		
Summer						Summer
	Fall	Fall				Fall
Fall/Spring		Fall/Spring	Fall/Spring		Fall/Spring	Fall/Spring
		TBD	TBD	TBD	TBD	TBD
				Spring		Spring
	Spring	Spring				Spring
		Fall & Spr (Opt)		Fall & Spr (Opt)		Fall & Spr (Opt)
			Spring	Spring	Spring	
				Fall/Spring	Fall/Spring	Fall/Spring
		Summer	Summer	Summer	Summer	Summer
		Summer				Summer
						Fall
	Spring		Spring	Spring	Spring	
				Fall	Fall	
				Spring - Virt Live	Spring - Virt Live	
	Spring		Spring			
		Spring	Spring		Spring	Spring
	Spring	Spring			Spring	Spring
						Spring - Virt Live
		Spring	Spring			Spring
		Fall	Fall	Fall		Fall
		Spring				Spring
		Fall/Spring	Fall/Spring	Fall/Spring	Fall/Spring	Fall/Spring
		Spring	Spring	Spring	Spring	Spring
		Spring	Spring	Spring	Spring	Spring
Spring				Spring	Spring	
				Summer	Summer	
		Spring				
						Spring - Virt Live
		Every term	Every term	Every term	Every term	Every term

585.801	Independent Study II	Online	Online	Online		
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		Every term	Every term	Every term	Every term	Every term
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