

Bioengineering Curriculum

Typical course offerings shown, but schedule can vary. 40 courses required.

First Year	Offered			Taken	Sophomore Year	Offered		
	F	W	S			F	W	S
ESC100 Exploring Engineering	x				BNG101 Graphics and Image Processing	x		
CSC10x Introduction to Computer Programming	x	x	x		BNG201 Biomechanics I		x	
MTH113 AP Calculus *	x	x			MTH130 Ordinary Differential Equations		x	x
MTH115 Calculus III	x	x	x		ECE225 Electric Circuits	x	x	
PHY120 - Matter in Motion	x	x	x		ECE240 Circuits and Systems		x	x
PHY121 Principles of Electromagnetics	x	x	x		ECE241 Discrete Systems	x		x
First Year Preceptorial	x	x			BNG202 Biomechanics II			x
CHM110/101 Introductory Chemistry ***	x	x			Sophomore Research Seminar	x	x	x
Elective **					BIO112 Physiology of Cells and Organisms		x	x
Elective **					BIO225 Molecular Biology of the Cell	x		x

Junior Year	Offered			Taken	Senior Year	Offered		
	F	W	S			F	W	S
MTH117 Integral Vector Calculus	x	x	x		BNG495 Capstone Design	x		
BNG386 Bioinstrumentation		x			BNG Core Biomechanics	x	x	x
BNG Core Biology BIO110 or BIO3xx	x	x	x		BNG Elective ***			
BNG Core Biology BIO3xx	x	x	x		BNG Elective ***			
BNG Core Biomechanics	x	x	x		BNG Elective ***			
BNG Elective ***					BNG Elective ***			
Elective **					Elective **			
Elective **					Elective **			
Elective **					Elective **			
Elective **					Elective **			

* Other math starting points are possible - those starting with MTH 110 or MTH 100 will have one or two fewer electives, respectively.

** Electives should be chosen to satisfy the Common Curriculum and WAC requirements as well as any minors or other academic goals.

*** BNG Electives should be chosen in consultation with your advisor

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