

THE UNIVERSITY OF AKRON
Department of Biomedical Engineering
B.S. Biomedical Engineering/Biomaterials & Tissue Engineering Track
Entering Fall 2006 or Later

FALL	SPRING	SUMMER			
First Year					
3300:111 English Comp. I	3	3450:222 Calculus II	4	Optional Engineering Co-op or Internship, School, or Vacation	
3450:221 Calculus I	4	3650:291 Physics I	4		
3150:151 Chemistry I	3	3150:153 Chemistry II	3		
3150:152 Chemistry Lab.	1	3150:154 Qualitative Analysis	2		
4800:101 Tools for BME	<u>3</u>	4800:111 Intro BME Design	<u>3</u>		
	14		16		
Second Year					
3450:223 Calculus III	4	3450:335 Differential Equations	3	Optional Engineering Co-op or Internship, School, or Vacation	
3650:292 Physics II	4	3300:112 English Comp II	3		
4300:201 Statics	3	4600:203 Dynamics	3		
3100:200 Anat & Phys I	3	4300:202 Mechanics of Solids	3		
3100:201 Anat & Phys I Lab	1	3100:202 Anat & Phys II	3		
4800:201 BME Sophomore Sem	<u>1</u>	3100:203 Anat & Phys II Lab	<u>1</u>		
	16		16		
Third Year					
4200:321 Transport Phenomina	3			Social Science Elective	3
3150:263 Organic Chemistry I	3			3470:461 Applied Statistics	4
3150:265 Organic Chemistry I Lab	2	4100:301 Engineering Co-op I		3400:210/221 Humanities	<u>4</u>
4800:360 Biofluid Mechanics	3				11
4800:365 Mech Bio Tissues	3				
7600:105/6 Speech or Oral Com	<u>3</u>				
	17				
Fourth Year					
		4600:300 Thermodynamics I	3		
		4400:307 Basic EE	4		
4100:302 Engineering Co-op II		Humanities Elective	3	4100:403 Engineering Co-op III	
		4800:400 Biomaterials	3		
		4800:220 Biomedical Computing	<u>3</u>		
			16		
Fifth Year					
4800:491 BME Design I	2	4800:492 BME Design II	2		
4800:305 Intro Biophysical Meas	4	4800:445 Exp Tech in Biomat	3		
4800:440 Advanced Biomaterials	3	BME Elective	3		
3600:120 Intro to Ethics (Hum)	3	3250:244 Intro to Econ Anal	3		
BME Elective	3	BME Elective	3		
Area Studies	<u>2</u>	Physical Education	<u>1</u>		
	17		15		

BME Electives must include a minimum of 3 credits from Biomedical Engineering (4800). All other electives may be chosen from a list of approved electives.