

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

FALL	SPRING		SUMMER
First Year			
3300:111 English Comp. I	3	3300:112 English Comp II	3
3450:221 Calculus I	4	3450:222 Calculus II	4
3150:151 Chemistry I	3	3650:291 Physics I	4
3150:152 Chemistry Lab.	1	3150:153 Chemistry II	3
4800:101 Tools for BME	<u>3</u>	4800:111 Intro BME Design	<u>3</u>
	14		17
Second Year			
3450:223 Calculus III	4	3450:335 Differential Equations	3
3650:292 Physics II	4	4800:220 Biomedical Computing	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			
4600:300 Thermodynamics I	3		Social Science Elective
4600:321 Kinematics	2		3
4800:360 Biofluid Mechanics	3	4100:301 Engineering	3470:461 Applied Statistics
4800:365 Mech Bio Tissues	3	Co-op I	4
7600:105/6 Speech or Oral Com	3		3400:210/221 Humanities
	<u>14</u>		<u>4</u>
			11
Fourth Year			
		4600:315 Heat Transfer	3
		4400:307 Basic EE	4
4100:302 Engineering		4800:310 Mod & Sim of BME Sys	3
Co-op II		4800:400 Biomaterials	3
		BME Elective	<u>3</u>
			16
			4100:403 Engineering
			Co-op III
Fifth Year			
4800:491 BME Design I	2	4800:492 BME Design II	2
4800:305 Intro Biophysical Meas	4	4800:460 Exp Tech in Biomech	3
Humanities Elective	3	4600:420 Intro FEM	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.