

The University of Texas at Arlington
Five Year Dual Program
B.S. in Biology and Master of Science in Biomedical Engineering
2009

Tissue Engineering Track

Must have 3.0 GPA and a grade of C or better in all coursework to apply to MS program.

NAME: _____ STUDENT ID: _____

ADDRESS: _____ PHONE: _____

PREPARED BY: _____ APPROVED BY: _____
 Advisor Date Department Chairman Date

APPROVED BY: _____ CERTIFIED: _____
 Academic Dean Date Registrar Date

	Hours Earned	Hours Needed		Hours Earned	Hours Needed
English (9 Hours)			Chemistry (19 Hours)		
1301 - Composition I		3	1441 - Gen Chem I w/lab		4
1302 - Composition II		3	1442 - Gen Chem II w/lab		4
3 hrs. Literature		3	2321, 2181 - Org Chem I w/lab		4
Total		9	2322, 2182 - Org Chem II w/lab		4
			4311 - Biochemistry I		3
Liberal Art/Speech Requirement (3 Hours)		3			
COMS 3302 or BIOL 3305 Total		3	Total Chemistry		19
Political Science (6 Hours)					
2311 - U.S. Govt.		3			
2312 - State & Local		3	BIOLOGY (30 Hours)		
Total		6	1441 - Cell & Molecular		4
			1442 - Structure & Function		4
History (6 Hours)			3315 - Genetics		3
1311 - U.S. History I		3	3444 - General Microbiology		4
1312 - U.S. History II		3	3301 - Cell Physiology		3
Total		6	Tissue Culture -- 3310 or new #3302		3
			3312 - Immuno		3
Mathematics (14 Hours)			4346 - Techniques in Micro Gen*		3
1426 - Calc I, 2425 - Calc II		8	5314 - Biometry		3
2326 - Calc III, 3319 - DE, Lin.Algebra		6			
Total		14	*if not offered, may sub 4302		
			Total Biology Hours:		30
ELECTIVES (6 Hrs.)					
Fine Arts		3			
Social Science		3	BME Coursework (31-34 Hrs.)		
Total		6	1225 - Intro to BME		2
			4325 Fundamentals of BME		3
Physics (8 Hrs.)			5309D - Human Physiology BIOL 5300-00		3
1443, 1444 (Technical Physics I and II)		8	5382 - Lab Principles		3
Total		8	5364 - Tissue Engineering		3
			5361 - Biomaterials/Blood Comp.		3
Core Engineering (28-31 Hrs.)			5335 - Biomaterials/Mech/Proces		3
CE 2312 - Statics & Dynamics		3	5366 - Process Control in Biotech		3
MAE 3310 - Thermodyn or CHEM 3321		3	5365 - Cell Culture in Biotech		3
CSE 1310 - Intro to Programming		3	5390 - Resarch Project		3
MAE 2314 - Fluid Mechanics		3	5293 - Master Comp Exam		2
EE 2320 - Circuit Analysis		3	5300-- Transport Phenomena		3
MAE 2381 - Measurement Lab 1		3	Total		34
MAE 3183 - Measurement Lab 2		1	Must apply to Graduate Program upon completion		
MAE 3314 - Heat Transfer		3	of 85 to 90 undergraduate credits - see Grad Advisor		
MAE 3319 - Dyn Sys Modeling & Simulation		3	BME Advisor: 817-272-0783		
MAE 3317 OR EE 3317 - Linear System		3			
MAE 4345 OR EE 4315 - Intro to Robotics		3	Community College Hrs. - 72 Hrs. Max.		
Total		28			
			GRAND TOTAL:		163
TOTAL HOURS NEEDED: 163					

Advisors: Jane Pugh - Room 345-C Life Science
 Linette Tucker - Room 345-A

Camesha Flowers - Room 345-B LS
 Alex Ferracuti - Room 346 LS