

DEGREE PLAN
BACHELOR DEGREE IN BIOMEDICAL ENGINEERING

Catalog: 2020 - 21

TISSUE ENG

Student Name: _____

Student ID: _____

Expected Date of Graduation: _____

Prepared by: _____ Date _____

Approved by: _____ Date _____

Approved by: _____ Date _____

Certified by: _____ Date _____

Taken	Grade		Transf	Hrs	Ernd
COMMUNICATION					
		ENGL 1301 Rhetoric & Composition I			3
		COMS 2302 Prof, Tech Commu, Sci Eng			3
Total Hrs.					6
US HISTORY					
		HIST 1301 US Hist to 1865 (or HIST 1331)			3
		HIST 1302 US Hist, post-1865 (or HIST 1332)			3
Total Hrs.					6
GOVERNMENT/POLITICAL SCIENCE					
		POLS 2311 US Gov't			3
		POLS 2312 State & Local Gov't			3
Total Hrs.					6
CREATIVE ARTS					
		(Choose one from list of Creative Arts core)			3
Total Hrs.					3
LANGUAGE, PHILOSOPHY AND CULTURE					
		PHIL 1304 (Contemporary Moral Problems)			3
Total Hrs.					3
SOCIAL AND BEHAVIOR SCIENCE					
		(Choose one from list of Soc/Behav core)			3
Total Hrs.					3
SCIENCE					
		CHEM 1441 General Chem I (w/ Lab)			4
		CHEM 1442 General Chem II (w/ Lab)			4
		BIOL 1441 Cell & Molecular Biology			4
		PHYS 1443 Gen Tech Phys I (w Lab)			4
		PHYS 1444 Gen Tech Phys II (w Lab)			4
Total Hrs.					20
MATHEMATICS					
		MATH 1426 Calculus I			4
		MATH 2425 Calculus II			4
		MATH 2326 Calculus III			3
		MATH 3319 Diff Eqs & Linear Algebra			3
		MATH 3316 or IE 3301 Statistics Inference			3
Total Hrs.					17
UNIV, ENGR, BE, EE Prep courses					
		UNIV 1131 Stu Success (ENGR 1101 - transf)			1
		ENGR 1250 Eng Prob Solv (or ENGR 1251)			2
		BE 2315 Intro Comput Tools for BE			3
		EE 2440 or CSE 2440 Ckt Anal w/ Lab (choose one)			4
Total Hrs.					10

Taken	Grade		Transf	Hrs	Ernd
MAJOR: BIOMEDICAL ENGINEERING (TE concentration)					
		BE 1105 Medical Appl of Engineering			1
		BE 1325 Intro to Bioengineering			3
		BE 3301 Cell Physiology for Bioengineers			3
		BE 3317 Linear Systems in Bioengineering			3
		BE 3320 Measurement Lab			3
		BE 3380 Human Physiology in BE			3
		BE 3415 Fundamentals of Biomolecular Eng			4
		BE 4350 Senior Design Project I			3
		BE 4355 Senior Design Project II			3
		BE 4382 Laboratory Principles			3
		BE 3310 or BE 4312 (choose one)			3
		BE 3367 or BE 4365 or BE 4373 (choose one)			3
		BE 4368 or BE 4364 or BE 4372 (choose one)			3
		BE 4333 or BE 4331 (choose one)			3
		BE 4337 or BE 4314 (choose one)			3
Total Hrs.					44
BIOMED ENG ELECTIVES (Choose 3 from below)					
		BE 2310 Eng Appro solving Clinical challenges			3
		BE 3343 MATLAB Appl for Bioengineers			3
		BE 3344 Bioinstrumentation			3
		BE 4329 Neural Engineering			3
		BE 4366 Process Control in Biotech			3
		BE 3346 Medical Imaging			3
		BE 3352 Digital Process of Biol Signals			3
		BE 4324 Biomedical Optics Lab			3
		BE 3325 Fluorescence Microscopy			3
		BE 3327 Tissue Optics			3
		BE 4326 Tissue Ultrasound-optical Imag			3
		BE 4331 Biopolymer and biocompatibility			3
		BE 4368 An Intro Tissue Eng, Drug Delivery			3
		BE 3372 Drug Delivery lecture			3
		BE 4385 Stem Cell Tissue Engineering			3
		BE 4312 Tissue Biomechanics & Bioeng			3
		BE 4314 Medical Implants			3
		BE 4388 Biomed product design & develop			3
		BE 4364 Tissue Eng Lecture			3
		BE 4365 Tissue Eng Lab			3
		BE 4372 Drug Delivery			3
		BE 4373 Drug Delivery Lab			3
		BIOL 3315 Genetics			3
Total Hrs.					9

updated 10/21/2020

Hours Earned

Total Hours Required

127