

DEGREE PLAN
BACHELOR DEGREE IN BIOMEDICAL ENGINEERING

Catalog: 2019 - 20

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	Hrs Ernd
COMMUNICATION				
	ENGL 1301 Rhetoric & Composition I			3
	COMS 2302 Prof, Tech Commu, Sci & Eng			3
Total Hrs.				6
US HISTORY				
	HIST 1301 History of US to 1865			3
	HIST 1302 History of US, 1865 to present			3
Total Hrs.				6
GOVERNMENT/POLITICAL SCIENCE				
	POLS 2311 Gov't of the US			3
	POLS 2312 State & Local Gov't			3
Total Hrs.				6
CREATIVE ARTS				
	Elective (choose 1 from Table A)			3
Total Hrs.				3
LANGUAGE, PHILOSOPHY AND CULTURE				
	PHIL 1304 (Contemporary Moral Problems)			3
Total Hrs.				3
SOCIAL AND BEHAVIOR SCIENCE				
	Elective (choose 1 from Table B)			3
Total Hrs.				3
SCIENCE				
	CHEM 1441 Gen Chemistry I (w Lab)			4
	CHEM 1442 Gen Chemistry II (w Lab)			4
	BIOL 1441 Cell & Molecular Biology			4
	BIOL 1442 Struc & Func of Organisms			4
	PHYS 1443 Gen Tech Phys I (w Lab)			4
	PHYS 1444 Gen Tech Phys II (w Lab)			4
Total Hrs.				24
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 courses				
	UNIV 1131 Student success			1
	ENGR 1250 Eng Problem Solving			2
	BE 2315 Introductory Computational Tools for BE			3
Total Hrs.				6

Taken	Grade	Transf	Hrs	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
Total Hrs.				9

Hours Earned

Total Hours Required

127

DEGREE PLAN
BACHELOR DEGREE IN BIOMEDICAL ENGINEERING

Degree Plan Notes

List of notes to make

Classes Taken that are not on degree plan with grades
List of College Abbreviations with College Name
Make notes as detailed as possible
Second Major and/or Minor

Classes Taken that are not on degree plan with grades
TRAN classes used and what for

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

CHANGE OF MAJOR HISTORY

MAJOR

DATE

BE Course Options

BE 3310 Biomechanics and Fluid Flow (w/Lab)
BE 4312 Tissue Biomechanics & Bioengineering
BE 3367 Cell Culture & Drug Delivery Lab
BE 4365 Tissue Engineering Lab
BE 4373 Drug Delivery Lab
BE 4368 Intro to Tiss Engineering & Drug Deliv. Lec
BE 4364 Tissue Engineering Lec
BE 4372 Drug Delivery Lec
BE 4337 Transport Phenomena
BE 4314 Biomedical Implants
BE 4333 Nano Biomaterials and Living Systems
BE 4331 Biopolymers & Biocompatibility