

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	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				
	PSYC 1315 Intro to Psychology			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 Student success			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	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

Hours Earned

Total Hours Required

127

DEGREE PLAN
BACHELOR DEGREE IN BIOMEDICAL ENGINEERING

Catalog: 2020-21

IMAGING

Student Name: _____

Student ID: _____

Prepared by: _____ Date _____

Approved by: _____ Date _____

Expected Date of Graduation: _____

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Taken	Grade	Transf	Line	Hrs Ernd
COMMUNICATION (RQ-2934)				
	ENGL 1301 Rhetoric & Composition I			3
	COMS 2302 Prof, Tech Commu, Sci Eng			3
Total Hrs.				6
US HISTORY (RQ-2998)				
	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 (RQ-2999)				
	POLS 2311 US Gov't			3
	POLS 2312 State & Local Gov't			3
Total Hrs.				6
CREATIVE ARTS (RQ-2997)				
	(Choose one from list of Creative Arts core)			3
Total Hrs.				3
LANGUAGE, PHILOSOPHY AND CULTURE (RQ-2996)				
	PHIL 1304 (Contemporary Moral Problems)			3
Total Hrs.				3
SOCIAL AND BEHAVIOR SCIENCE (RQ-3000)				
	(Choose one from list of Soc/Behav core)			3
Total Hrs.				3
SCIENCE (RQ-2995)				
	CHEM 1441 General Chem I (w/ Lab)			4
	CHEM 1442 General Chem II (w/ Lab)			4
	BIOL 1441 Cell & Molecular Biology			4
	PHYS 1443 General Tech Phys I (w/ Lab)			4
	PHYS 1444 General Tech PhysII (w/Lab)			4
Total Hrs.				20
MATHEMATICS (RQ-2985)				
	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 (RQ-2987)				
	UNIV 1131 Student Success			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	Line	Hrs Ernd
MAJOR: BIOENGINEERING (Medical Imaging) (RQ-2987)				
	BE 1105 Med 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 3344 Bioinstrumentation			3
	BE 3346 Medical Imaging			3
	BE 3352 Digital process of Biol Signals			3
	BE 4324 Biomedical Optics Lab			3
Total Hrs.				41
BIOMED ENGINEERING ELECTIVES (Choose 4 from below)				
	BE 2310 Eng Appro solving Clinical challenges			3
	BE 3310 Biomech. & Fluid Flow (w/Lab)			3
	BE 3325 Fluorescence Microscopy			3
	BE 3327 Tissue Optics			3
	BE 3343 MATLAB Appl for Bioengineers			3
	BE 3367 Cell Culture and drug delivery Lab			3
	BE 3372 Drug delivery lecture			3
	BE 4312 Tissue Biomechanics & Bioeng			3
	BE 4314 Medical Implants			3
	BE 4326 Tissue Ultrasound-optical imag			3
	BE 4329 Neural Engineering			3
	BE 4333 Nano Biomaterials, Living sys inter			3
	BE 4331 Biopolymer & Biocompatibility			3
	BE 4337 Transport Phenomena in BME			3
	BE 4364 Tissue Eng Lecture			3
	BE 4365 Tissue Eng Lab			3
	BE 4366 Process Control in Biotech			3
	BE 4368 An Intro Tissue Eng, Drug Delivery			3
	BE 4372 Drug Delivery			3
	BE 4373 Drug Delivery Lab			3
	BE 4385 Stem Cell Tissue Engineering			3
	BE 4388 Biomed product design & develop			3
	EE 3407 Electromagnetics			4
	BIOL 3315 Genetics			3
Total Hrs.				12

Hours Earned
Total Hours Required

127