

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: _____

Approved by: _____ Date _____

Certified by: _____ Date _____

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