9/19/2018

Engineering Dual Degree Requirements Biomedical Engineering & Science, Technology and Society

University Core Curriculum				Common Engineering			
Com	mon Core Requirements	Credits	Mathematics			Credits	
FYS	101 First Year Seminar	3	MA	106	Calculus & Analytical Geometry 1	4	
FYS	102 First Year Seminar	3	MA	107	Calculus & Analytical Geometry 2	4	
GHS	201-209 Global and Historical Studies	3	MA	208	Calculus & Analytical Geometry 3	4	
GHS	201-209 Global and Historical Studies	3	MA	215	Linear Algebra	3	
			MA	334	Differential Equations	3	
General Core Requirements Credits							
TI	Text and Ideas	3	Scienc	е		Credits	
PCA	Perspectives in the Creative Arts	3	СН	105	General Chemistry 1**	5	
SW	The Social World (exempt)	3	СН	106	General Chemistry 2**	5	
AR	Analytical Reasoning (exempt)	3	PH	201	Introduction to Analytical Physics 1**	5	
NW	The Natural World (exempt)	5	PH	202	Introduction to Analytical Physics 2**	5	
PWB	Physical Well-Being	1					
Core Credits 19(30			Engine	ering	5	Credits	
Addit	tional Core Requirements		DD	190	Elementary Engineering Design	3	
BCR	Butler Cultural Requirement	8 events	DD	297	MATLAB	1	
ICR	Indianapolis Community Requirement	1 course	CS	142	Intro to Comptuer Science & Prog	3	
SAC	Speaking Across the Curriculum	1 course					
WAC	Writing Across the Curriculum	1 course	Other			Credits	
			COM	101	Rhetoric and the American Demo	3	
Liber	al Arts and Science Requirements	Credits	TCM	250	Career Planning for Engineers	1	
Foreign Language (min 6 cr 200 level or above)		6-14	тсм	360	Comm in Engineering Practice (WAC/SAC)	2	
	Spanish, French, German, Chinese, Latin		ENGR	200	Engineering Internship	1	
	Credits	25-33			Credits	52	
Scien	ce. Technology and Society	Credits	Biome	dical	Engineering	Credits	
ST	200 Intro to Science & Technology Studies	3	СН	351	Organic Chemistry 1	3	
ST	205 Science and Society Speaker Series	3	СН	352	Organic Chemistry 2	5	
01	This is a one credit course offered each term	0	BI	210	Genetics	4	
	that must be completed three times before		BI	220	Cellular and Molecular Biology	4	
	that must be completed three times before		BI	433	Advanced Cell Biology	4	
Selec	graduation. t 2 from the following 3 courses:	6	BME	222	Biomeasurements	4	
ST	310 Social Studies of Science and Technology	0	BME	241	Biomechanics	4	
ST	320 Philosophy of Science		BME	271	Probability & Statistics for BMF	ד 2	
ST	330 Language Rhetoric and Science		BME	322	Biosignals and Systems	3	
STS F	lectives (*credits used toward 18 cr reg)	18	BME	331	Biomedical Computing	3	
515 L	Electives (credits used toward 10 cr req)	10	BME	357	Cell/Tissue Behavior and Properties	2	
	Of these evolutions of the 200 level or		BME	354	Prohs in Cell/Tissue Behavior & Pron	1	
	Of these credits, 12 must be at the 300 level of		BME	281	Implantable Materials & Biological Resp	3	
	above. A total of three hours of independent		BME	202	Prohs in Implant Materials & Bio Resp	1	
	study or internship credit can be used. Only one			102	Sonior Sominar in BME	1	
	research methods course is allowed.			402		1	
Coi /T	ach Flact (**aradita usad taward 15 ar rag)		BIVIE	411		3	
Sci/ Lech Elect (** credits used toward 15 cr req)		- 20	BIVIE	442	Biofiuld & Biosolid Mechanics	3	
	Credits	50	BIVIE	401	Pierre diast Engine ania a Design L	5	
			BIVIE	491	Biomedical Engineering Design I	3	
			BIME	492	BIOMEDICAI Engineering Design II	3	
			BIME G	atew		3	
			BMF/1	ech l		3	
			BME/S	ci/Te	CN LIECTIVES'	6	
					Credits	73	

ⁱ BME/Sci/Tech electives must be selected in consultation with an advisor to form an appropriate Depth Area

180 - 188 Total Credits