

NAME			MAJOR:		Biomedical Engineering						
STUDENT ID#			FOCUS		AREA: Biomedical Systems and Imaging						
TRANSFER FROM			MINOR:								
TERM/YEAR ADMITTED:			CATEGORY:								
TERM/YEAR COMPLETED:			(BS;BS/MS,etc)								
Category and Course	Equivalent Alternative	Type and Purpose of Course	Year/Quarter Suggested	Year/Quarter Taken	Sci/Math Credits	Engineer Credits	Design Y/N	General Credits	Liberal Y/N	Free Elective	Total Credits
Term 1											
MATH 121 Calculus I		Required - Engineering Curriculum	Frosh-1		3	1	Y				4
CS 121 Computational Laboratory I		Required - Engineering Curriculum	Frosh-1			1	Y				1
CHEM 101 General Chemistry I		Required - Engineering Curriculum	Frosh-1		3.5						3.5
ENGR 101 Engineering Design Laboratory I		Required - Engineering Curriculum	Frosh-1		0.5	1.5	Y				2
ENGL 101 Expository Writing and Reading		Required - Engineering Curriculum	Frosh-1					3	Y		3
University Seminar		Required - University Curriculum	Frosh-1					1			1
BMES 125 - Found. of Biomedical Engineering		Required - BME Curriculum	Frosh - 1		1	1					2
											16.5
Term 2											
MATH 122 Calculus II		Required - Engineering Curriculum	Frosh -2		3	1	Y				4
PHYS 101 Fundamentals of Physics I		Required - Engineering Curriculum	Frosh -2		3	1	Y				4
CHEM 102 Chemistry II		Required - Engineering Curriculum	Frosh -2		3.5	1					4.5
ENGR 102 Engineering Design Laboratory II		Required - Engineering Curriculum	Frosh -2		0.5	1.5	Y				2
ENGL 102 Persuasive Writing and Reading		Required - Engineering Curriculum	Frosh -2					3	Y		3
CS 122 Computational Laboratory II		Required - Engineering Curriculum	Frosh -2			1	Y				1
University Seminar		Required - University Curriculum	Frosh -2					0.5			0.5
CO-OP 101		Required - University Curriculum	Frosh -2								
											19
Term 3											
MATH 200 Multivariate Calculus		Required - Engineering Curriculum	Frosh - 3		3	1	Y				4
PHYS 102 Fundamentals of Physics II		Required - Engineering Curriculum	Frosh - 3		3	1	Y				4
BIO 122: Cells and Genetics or similar		Required - Engineering Curriculum	Frosh - 3		4.5						4.5
ENGR 103 Engineering Design Laboratory III		Required - Engineering Curriculum	Frosh - 3		0.5	1.5	Y				2
ENGL 103 Analytical Writing and Reading		Required - Engineering Curriculum	Frosh - 3					3	Y		3
CS 123 Computational Laboratory III		Required - Engineering Curriculum	Frosh - 3			1	Y				1
University Seminar		Required - University Curriculum	Frosh - 3					0.5			0.5
CO-OP 101		Required - University Curriculum	Frosh - 3								
											19
Term 4											
ENGR 221: Linear Systems Engineering		Required - Engineering Curriculum	Soph - 1		3						3
PHYS 201 Physics III		Required - Engineering Curriculum	Soph - 1		3	1					4
MEM 202 Statics		Required - BME Curriculum	Soph - 1			3					3
BMES 212 The Body Synthetic		Required - BME Curriculum	Soph - 1		1	2					3
Sophomore Design/Professional Techniques I (?)		Required - Engineering Curriculum	Soph - 1			2					2
BIO 201 Human Physiology I		Required - BME Curriculum	Soph - 1		3.5	0.5					4
											19
Term 5											
ENGR 222 : Dynamic Systems Engineering		Required - Engineering Curriculum	Soph - 2		3						3
BMES 480 Biosimulation		Required - BME Curriculum	Soph - 2		2	2			Y		4
Sophomore Design/Professional Techniques I (?)		Required - Engineering Curriculum	Soph - 2			2					2
BIO 203 Human Physiology II		Required - BME Curriculum	Soph - 2		3.5	0.5					4
ECE 201 Fund Electric Circuits		Required - BME Curriculum	Soph - 2			3					3
											16
Term 6											
BMES 321 - Eng. Principles of Living Systems I		Required - BME Curriculum	PreJun - 1		1	2					3
MATE 101		Required - Engineering Curriculum	PreJun - 1			4					4
BMES 301 Biomed. Eng Lab I: Biomechanics		Required - BME Curriculum	PreJun - 1		1	1					2
BMES 310 - Biomedical Statistics		Required - BME Curriculum	PreJun - 1		4						4
HIST 285 History of Technology		Required - Engineering Curriculum	PreJun - 1					3	Y		3
											16
Term 7											
BMES 322 Eng. Principles of Living Systems II		Required - BME Curriculum	PreJun - 2		1	2					3
BMES 302: Biomed. Eng Lab. II: Measurements		Required - BME Curriculum	PreJun - 2		1	1					2

BMES 315: Experimental Design		Required - Systems/Imaging	PreJun - 2	2	2				4
BMES 338 Biomedical Ethics and Law		Required - BME Curriculum	PreJun - 2				3		3
ECES 302 - Transform Methods and Filtering		Pre-Requsite ECES 304/BMES 421	PreJun - 2	1	3				4
									16
Term 8									
BMES 303: Biomed. Eng Lab III: Electronics		Required - BME Curriculum	Junior - 1		2				2
BIO 202 Human Physiology Laboratory		Required - Systems/Imaging	Junior - 1	2					2
BMES 401 - Biosensors I		Required - Systems/Imaging	Junior - 1	1	3				4
ECES 306: Introduction to Modulation and Coding		Pre-Requsite for BMES 421 & 432	Junior - 2	1	3				4
Liberal Studies		Required - BME Curriculum	PreJun - 2				3	Y	3
BMES 381 - Junior Seminar I		Required - BME Curriculum	Junior - 1		2				2
									17
Term 9									
BMES 304: Biomed. Eng Lab IV: Ultrasound Imag.		Required - BME Curriculum	Junior - 2	1	1				2
BMES 375 - Computational Bioengineering		Required - Systems/Imaging	Junior - 2	1	3	Y			4
ECES 304 - Dynamic Systems and Stability		Pre-Requsite ECES 356/BMES 421	Junior - 2	1	3				4
ECES 352 - Digital Signals		Pre-Requsite for BMES 421 & 432	Junior - 2	1	3				4
BMES 382 - Junior Seminar II		Required - BME Curriculum	Junior - 2				2	Y	2
									16
Term 10									
BMES 421 - Biomedical Imaging I		Required - Systems/Imaging	Senior - 1	1	3				4
ECES 356 - Theory of Control		Required - Systems/Imaging	Senior - 1	1	3				4
BMES 391 - Biomedical Instrumentation I		Required - Systems/Imaging	Senior - 1	1	2				3
BMES 432 - Biomedical Systems and Signals		Required - Systems/Imaging	Senior - 1		3				3
Senior Design I		Required - BME Curriculum	Senior - 1		2	Y			2
									16
Term 11									
BMES 422 - Biomedical Imaging II		Required - Systems/Imaging	Senior - 2	1	3				4
BMES 392 - Biomedical Instrumentation II		Required - Systems/Imaging	Senior - 2	1	2				3
General Studies		Required - BME Curriculum	Senior - 2				3		3
General Studies		Required - BME Curriculum	Senior - 2				3		3
Senior Design II		Required - BME Curriculum	Senior - 2		2	Y			2
									15
Term 12									
BMES 423 - Biomedical Imaging III		Required - Systems/Imaging	Senior - 3	1	3				4
Liberal Studies		Required - BME Curriculum	Senior - 3				3	Y	3
Liberal Studies		Required - BME Curriculum	Senior - 3				3	Y	3
Senior Design III		Required - BME Curriculum	Senior - 3		4	Y			4
									14
TOTALS - Biomedical Systems and Imaging	199.50			73.00	92.50		34.00		0.00
TOTALS - ABET BASIC REQUIREMENTS	192 Total Credits			48	72				