

NAME			MAJOR:		Biomedical Engineering						
STUDENT ID#			FOCUS		Neuroengineering						
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											
BIO 203 Human Physiology II		Required - BME Curriculum	PreJun - 2		3.5	0.5					4
BMES 302: Biomed. Eng Lab. II: Measurements		Required - BME Curriculum	PreJun - 2		1	1					2

BMES 304: Biomed. Eng Lab IV: Ultrasound Imag.		Required - BME Curriculum	PreJun - 2		1	1					2
ECES 302 - Transform Methods and Filtering		Pre-Requisite for BMES 477	PreJun - 2		1	3					4
BMES 338 Biomedical Ethics and Law		Required - BME Curriculum	PreJun - 2					3			3
											15
Term 8											
BMES 303: Biomed. Eng Lab III: Electronics		Required - BME Curriculum	Junior - 1			2					2
BMES 381 - Junior Seminar I		Required - BME Curriculum	Junior - 1			2					2
PSY 213 - Sensation and Perception		Required-Neuroengineering Concen	Junior - 1		3						3
ECES 356 - Theory of Control		Pre-Requisite for BMES 477	Senior - 1			4					4
BMES 411 - Chronoengineering I		Required-Neuroengineering Concen	Junior - 1		2.5	0.5					3
PSY 101 - General Psychology		Required - BME Curriculum	Junior - 1					3	Y		3
											17
Term 9											
BMES 375 - Computational Bioengineering		Required Biomat/Tissue Eng	Junior - 2		1	3					4
ECES 304 - Dynamic Systems and Stability		Pre-Requisite for BMES 477	Junior - 2		1	3					4
BMES 372: Biological Control Systems II		Required-Neuroengineering Concen	Junior - 1		2	1					3
BMES 451 - Transport Phenomena in Living Systems I		Required - BME Curriculum	Junior - 2		1	3	Y				4
BMES 382 - Junior Seminar II		Required - BME Curriculum	Junior - 2					2	Y		2
											17
Term 10											
Liberal Studies		Required - BME Curriculum	Senior - 1					3	Y		3
BMES 401 - Biosensors I		Required-Neuroengineering Concen	Senior - 1		1	3	Y				4
General Studies		Required - BME Curriculum	PreJun - 2					3			3
Senior Design I		Required - BME Curriculum	Senior - 1			2	Y				2
											12
Term 11											
BMES 477 - Neuroengineering I		Required-Neuroengineering Concen	Senior - 2		2	2					4
BMES Technical Elective		Required - BME Curriculum	Senior - 2			3					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 478 - Neuroengineering II		Required-Neuroengineering Concen	Senior - 3		2	2					4
BMES Technical Elective		Required - BME Curriculum	Senior - 3			4					4
Senior Design III		Required - BME Curriculum	Senior - 3		1	3	Y				4
											12
TOTALS - Neuroengineering Focus Area	193.50				77.00	82.50		34.00		0.00	193.5
TOTALS - ABET BASIC REQUIREMENTS	192 Total Credits				48	72					