NAME			MAJOR:	Biomedical Engineering							
STUDENT ID#			FOCUS	AREA:	Biomedical Informatics						
TRANSFER FROM			MINOR:								
			CATEGORY:								
TERM/YEAR ADMITTED:			(BS;BS/MS,etc)								
TERM/YEAR COMPLETED:											
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								
		Fall/Winter CO-OP Cycle									***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		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								
		Spring/Summer CO-OP Cycle									***19***
Term 4											
ENGR 221 Linear Engineering Systems		Required - Engineering Curriculum	Soph - 1		2	1					**3**
PHYS 201 Physics III		Required - Engineering Curriculum	Soph - 1		3	1					**4**
ENGR 220 Materials		Required - Engineering Curriculum	Soph - 1			4					**4**
BIO 201 Human Physiology I		Required - BME Curriculum	Soph - 1		4						**4**
ENGR 201 EPED I		Required - Engineering Curriculum	Soph - 1			3					**3**
											18
Term 5											
ENGR 222 Dynamic Systems Engineering		Required - Engineering Curriculum	Soph - 2		2	1					**3**
BMES 212 The Body Synthetic		Required - BME Curriculum	Soph - 2		1	2					**3**
ENGR 202 EPED II		Required - Engineering Curriculum	Soph - 2			3					**3**
BIO 203 - Human Physiology II		Required - BME Curriculum	Soph - 2		4						**4**
MEM 202 Statics		Required - BME Curriculum	Soph - 2			3					**3**
BMES 302 - Biomed. Eng Lab. II: Measurements		Required - BME Curriculum	Soph - 2		1	1					**2**
											18

Term 6											
BMES 221 - Eng. Principles of Living Systems I		Required - BME Curriculum	PreJun - 1		2	1					3
ECE 201 Fund Electric Circuits		Required - BME Curriculum	PreJun - 1			3					3
BMES 480 Biosimulation		Required - BME Curriculum	PreJun - 1		1	2			Y		3
CS 171 - Computer Programming I		Pre-Requisite for BMES 483	PreJun - 1			3					3
BIO 218/219 Principles/Techniques of Molecular Bio		Required- Bioinformatics Concentration	PreJun - 1		5.5						5.5
											17.5
Term 7											
BMES 222 Eng. Principles of Living Systems II		Required - BME Curriculum	PreJun - 2		2	1					3
BMES 303 - Biomed. Eng Lab III: Electronics		Required - BME Curriculum	PreJun - 2			2					2
CS 172 - Computer Programming II		Pre-Requisite for BMES 483	PreJun - 2			3					3
ISYS 110 - Human Computer Interaction		Required- Bioinformatics Concentration	PreJun - 2		1	2					3
BMES 310 - Biomedical Statistics		Required - BME Curriculum	PreJun - 2		4						4
											15
Term 8											
BMES 315: Experimental Design		Required- Bioinformatics Concentration	Junior - 1		2	2					4
BMES 338 Biomedical Ethics and Law		Required - BME Curriculum	Junior - 1					3			3
ISYS 200 - Systems Analysis I		Pre-Requisite for BMES 483	Junior - 1			3					3
General Studies		Required - BME Curriculum	Junior - 1					3			3
CS 265 - Advanced Programming Tools/Techniques		Required- Bioinformatics Concentration				3					3
BMES 381 - Junior Seminar I		Required - BME Curriculum	Junior - 1					2			2
											18
Term 9											
ISYS 210 - Database Management Systems		Required- Bioinformatics Concentration	Junior - 2			3					3
BMES 375 - Computational Bioengineering		Required Biomat/Tissue Eng	Junior - 2		1	3					4
BMES 432: Biomedical Signals and Systems		Required- Bioinformatics Concentration	Junior - 2			3					3
BMES 382 - Junior Seminar II		Required - BME Curriculum	Junior - 2			2			Y		2
CS 260 - Data Structures		Required- Bioinformatics Concentration				3					3
											15
Term 10											
BMES 335 - Biomedical Informatics I		Bioinformatics Focus Area Elective	Senior - 1		2	1					3
HIST 285 - History of Technology		Required - BME Curriculum	Senior - 1					3	Y		3
BMES 401 - Biosensors I		Required - BME Curriculum	Senior - 1		1	3	Y				4
General Studies		Required - BME Curriculum	Senior - 1					3			3
Senior Design I		Required - BME Curriculum	Senior - 1			2	Y				2
											15
Term 11											
BMES 483 - Quantitative Systems Biology		Required- Bioinformatics Concentration	Senior - 2		1.5	3					4.5
BMES 336 - Biomedical Informatics II		Bioinformatics Focus Area Elective	Senior - 2		2	1					3
General Studies		Required - BME Curriculum	Senior - 2					3			3
Senior Design II		Required - BME Curriculum	Senior - 2			2	Y				2
											12.5
Term 12											
BMES 484 - Genome Information Engineering		Required- Bioinformatics Concentration	Senior - 3		1.5	3					4.5
General Studies		Required - BME Curriculum	Senior - 2					3			3
General Studies		Required - BME Curriculum	Senior - 3					3			3
Senior Design III		Required - BME Curriculum	Senior - 3			4	Y				4
											14.5
BIOMEDICAL INFORMATICS REQUIREMENTS	**198.00**				**72.50**	**91.50**		**34.00**	**0.00**	**0.00**	**198.00**
TOTALS - ABET BASIC REQUIREMENTS	**192 Total Credits**				**48**	**72**					