

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN APPLIED SCIENCE & ENGINEERING W/ BIOMEDICAL ENGINEERING CONCENTRATION

Freshman Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
MATH 161 Calculus I.....	4	MATH 162 Calculus II.....	4
BIOL 101 General Biology I.....	4	ENGR 156 Introduction to Engineering.....	2
PHYS 101 General Physics Engineering I.....	4	PHYS 102 General Physics Engineering II.....	4
CHEM 105 Chemistry for Engineers.....	4	WRIT 101 Foundations of Academic Discourse.....	3
PHYE 100 Healthful Living.....	1	ENGR 120 Numerical Computing.....	3
	17		16

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
BIOL 233 Genetics.....	4	SSFT Course.....	2
MECE 107 Engineering Graphics.....	3	MECE 252 Mechanical Systems Lab II.....	1
MECE 109 Introduction to Solid Modeling.....	1	ENGR 274 Mathematical Methods Engineering.....	3
MECE 201 Fundamentals of Material Science.....	3	BIOL 234 Cell Biology.....	4
MECE 251 Mechanical Systems Lab I.....	1	General Elective.....	3
HUMA 102 Civ and the Biblical Revelation.....	3	General Elective.....	3
	15		16

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
STAT 131 Statistical Methods I.....	3	ENGR 304 Design of Experiments.....	1
ENGR 216 Mechatronics I.....	3	ENGR 340 Fundamentals Biomedical Engineering.....	3
MECE 211 Mechanics I.....	3	EXER 258 Anatomy & Physiology II.....	4
EXER 253 Anatomy & Physiology I.....	4	Foundations Social Science Course.....	3
HUMA 200 Western Civilization.....	3	HUMA 202 Civilization and Literature.....	3
	16	General Elective.....	3
			17

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ENGR 401 Capstone Design.....	3	ENGR 452 Capstone Design Laboratory II.....	3
ENGR 451 Capstone Design Laboratory I.....	1	ENGR 402 Engineering Economics.....	1
EXER 309 Biomechanics.....	3	ENGR 414 Biomedical Engineering Design.....	3
ENGR 413 Bio Fluid Mechanics.....	3	HUMA 303 Christianity and Civilization.....	3
HUMA 301 Civilization and the Arts.....	3	General Elective.....	5
General Elective.....	3		15
	16		

Students are expected to use this status sheet in conjunction with the College *Bulletin* and to contact their advisors for a detailed schedule of courses recommended to meet requirements for this major.

TOTAL CREDIT HOURS REQUIRED = 128