Grove City College Status Sheet

Status Sheets are provided as a convenience for the student and may be helpful for recording completed courses. However, the College Bulletin is the controlling authority on all requirements. Questions should be directed to your academic advisor or the Registrar.

(WI)=Writing Intensive, (SI)=Speaking Intensive, (IL)=Information Literacy courses.

B.S. in Applied Science and Engineering w/ Biomedical Engineering Concentration Entering 2023

(REVISED 04-04-2023)

Name: _____

ID# _____ **Date:** _____

Year of Anticipated Graduation: _____ **Advisor:** _____

TOTAL HOURS REQUIRED FOR THIS DEGREE---------- 128 HOURS

General Education + Elective Requirements---------- 41 HOURS

Minimum CQPA and MQPA required for graduation----------2.00

MQPA Courses---ENGR; BIOL; CHEM; PHYS; ELEE; MECE; MATH

Major Requirements----------87 HOURS

GENERAL EDUCATION REQUIREMENTS---------- 24 HOURS

HUMANITIES CORE---------- 15 HOURS

		Cr.	Sem. Taken	Grade
HUMA 102	Civ and the Biblical Revelation (IL)*	3		
HUMA 200	Western Civilization	3		
HUMA 202	Civilization and Literature	3		
HUMA 301	Civilization and the Arts	3		
HUMA 303	Christianity and Civilization	3		

*The year-long sequence of RELI 211 and 212 may substitute for this course.

WRITING REQUIREMENT---------- 3 HOURS

WRIT 101	Found. of Academic Discourse (IL)	3		

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)---------- 2 HOURS

Choose one course from the following:

COMP 205/SSFT 205	Ethics, Faith, and the Conscious Mind			
PHIL 243	Science and the Human: Inquiry, Design, & the Person			
SSFT 210	Science & Religion			
SSFT 212	Science, Faith, Technology, & Origins			
		2		

FOUNDATIONS OF THE SOCIAL SCIENCES---------- 3 HOURS

Choose one course from the following:

ECON 120	Foundations of Economics	PSYC 101	Foundations of Psychology
HIST 120	Foundations of History	PSYC 200	Cross-Cultural Psychology
HIST 141	World Geography	SOCI 101	Foundations of Sociology
HIST 204	Hist/Phil Foundations of Education	SOCI 103	Found. of Cultural Anthr.
POLS 101	Foundations of Political Science	SOCW 101	Found. of Social Work

3

QUANTITATIVE/LOGICAL REASONING---------- 0 HOURS

Satisfied by major-related requirements.

NATURAL SCIENCES (with labs)---------- 0 HOURS

Satisfied by major-related requirements.

PHYSICAL EDUCATION---------- 1 HOURS

PHYE 100	Healthful Living	1		

GENERAL ELECTIVES---------- 17 HOURS

ENGINEERING SCIENCE CORE---------- 54 HOURS

		Cr.	Sem. Taken	Grade
BIOL 101	General Biology	4		
CHEM 105	Chemistry for Engineers	4		
MATH 161	Calculus I	4		
MATH 162	Calculus II	4		
STAT 131	Statistical Methods I	3		
PHYS 101	General Physics Engineering I	4		
PHYS 102	General Physics Engineering II	4		
MECE 107	Engineering Graphics	2		
MECE 109	Intoduction to Solid Modeling	2		
MECE 201	Fundamentals of Material Science	3		
MECE 211	Mechanics I	3		
ENGR 120	Numerical Computing	3		
ENGR 156	Introduction to Engineering	2		
ENGR 216	Mechatronics I	3		
ENGR 304	Design of Experiements	1		
ENGR 401	Engineering Design	3		
ENGR 402	Engineering Economics	1		
ENGR 451	Capstone Design Laboratory I	1		
ENGR 452	Capstone Design Laboratory II	3		

PLAN OF STUDY

Biomedical Engineering: ---------- 33 HOURS

EXER 253	Anatomy & Physiology I	4		
EXER 258	Anatomy & Physiology II	4		
BIOL 233	Genetics	4		
BIOL 234	Cell Biology	4		
ENGR 274	Mathematical Methods Engineering	3		
MECE 251	Mechanical Systems Lab I	1		
MECE 252	Mechanical Systems Lab II	1		
EXER 309	Biomechanics	3		
ENGR 390	Fundamentals Biomedical Engineering	3		
ENGR 413	Bio Fluid Mechanics	3		
ENGR 414	Biomedical Engineering Design	3		

*** Other plans of study must be approved by Interdisciplinary Study Review Committee**

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

Freshman Year

Fall	Credits	Spring	Credits
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

Fall	Credits	Spring	Credits
BIOL 233 Genetics	4	SSFT Course	2
MECE 107 Engineering Graphics	3	MECE 252 Mechanical Systems Lab II	1
MECE 109 Intoduction 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

Fall	Credits	Spring	Credits
STAT 131 Statistical Methods I	3	ENGR 304 Design of Experiements	1
ENGR 216 Mechatronics I	3	ENGR 390 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

Fall	Credits	Spring	Credits
ENGR 401 Capstone Design Sequence	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