

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.

Name: _____
ID# _____
Year of Anticipated Graduation: _____

**B.S. in Applied Science and Engineering w/
Biomedical Engineering Concentration
Entering 2025**
(REVISED 04-09-2025)

Date: _____
Advisor: _____

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

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

GENERAL EDUCATION REQUIREMENTS----- 26 HOURS

	Cr.	Sem. Taken	Grade
HUMANITIES CORE-----			18 HOURS
HUMA 100 The Humanities: Christian Wisdom	1		
HUMA 200 Western Civilization	3		
HUMA 202 Civilization and Literature	3		
HUMA 204 Civilization and the Arts	3		
HUMA 261 Scripture & Theology for the Chr. Life I	3		
HUMA 271 Scripture & Theology for the Chr. Life II	3		
HUMA 300 Gospel & the Good Life: Christian Ethic	2		

WRITING REQUIREMENT----- 3 HOURS

WRIT 101 Found. of Academic Discourse (WI/IL)	3		
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FOUNDATIONS OF THE SOCIAL SCIENCES*----- 3 HOURS

Choose one course from the following:	PSYC 101 Foundations of Psychology
ECON 120 Foundations of Economics	PSYC 200 Cross-Cultural Psychology
HIST 120 Foundations of History	SOCW 101 Foundations of Social Work
HIST 204 Historical & Phil. Found. of Education	SOCI 101 Foundations of Sociology
POLS 101 Foundations of Political Science	SOCI 103 Found. of Cultural Anthr.
	3

NATURAL SCIENCE (with lab)/ QUANTITATIVE/LOGICAL REASONING----- 0 HOURS

(1) Natural Science with lab	4	(Met through major)
(2) Quantitative/Logical Reasoning	3-4	(Met through major)
(3) Third course in Natural Science, Quantitative or Logical Reasoning	3-4	(Met through major)

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY ----- 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

GENERAL ELECTIVES----- 15 HOURS

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

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

Major Requirements-----87 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 Introduction 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 Experiments	1		
ENGR 401 Engineering Design	1		
ENGR 402 Engineering Senior Seminar	1		
ENGR 451 Capstone Design Laboratory I (WI/SI)	3		
ENGR 452 Capstone Design Laboratory II (SI)	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 (IL)	1		
MECE 252 Mechanical Systems Lab II	1		
EXER 309 Biomechanics	3		
ENGR 340 Fundamentals Biomedical Engineering	3		
ENGR 413 Bio Fluid Mechanics	3		
ENGR 414 Biomedical Engineering Design & Regulations	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

<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
MECE 107 Engineering Graphics.....	2	STAT 131 Statistical Methods I.....	3
MECE 109 Introduction to Solid Modeling	2	Writing Requirement or HUMA Course.....	3
HUMA 100 The Humanities: Christian Wisdom.....	1	ENGR 120 Numerical Computing.....	3
Writing Requirement or HUMA Course.....	<u>3</u>	General Electives.....	<u>1</u>
	16		16

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
BIOL 233 Genetics.....	4	General Elective.....	3
PHYS 101 General Physics Engineering I.....	4	PHYS 102 General Physics Engineering II.....	4
SSFT Course.....	2	ENGR 274 Mathematical Methods Engineering.....	3
HUMA Course	3	BIOL 234 Cell Biology.....	4
Foundations Social Science Course	<u>3</u>	HUMA Course	<u>3</u>
	16		17

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 105 Chemistry for Engineers.....	4	ENGR 304 Design of Experiments.....	1
MECE 201 Fundamentals of Material Science.....	3	ENGR 340 Fundamentals Biomedical Engineering.....	3
MECE 211 Mechanics I.....	3	EXER 258 Anatomy & Physiology II.....	4
EXER 253 Anatomy & Physiology I.....	4	MECE 252 Mechanical Systems Lab II.....	1
MECE 251 Mechanical Systems Lab I.....	<u>1</u>	ENGR 216 Mechatronics I.....	3
	15	General Elective.....	2
		HUMA Course	<u>3</u>
			17

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ENGR 401 Engineering Design.....	1	ENGR 452 Capstone Design Laboratory II.....	3
ENGR 451 Capstone Design Laboratory I.....	3	ENGR 402 Engineering Senior Seminar.....	1
EXER 309 Biomechanics.....	3	ENGR 413 Bio Fluid Mechanics.....	3
ENGR 414 Biomedical Engineering Design.....	3	HUMA 300 Gospel and the Good Life: Christian Ethics.....	2
HUMA Course	3	General Elective.....	<u>5</u>
General Elective.....	<u>4</u>		14
	17		

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