

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	Minimum CQPA and MQPA required for graduation-----	2.00
General Education + Elective Requirements-----	41 HOURS	MQPA Courses---ENGR; BIOL; CHEM; PHYS; ELEE; MECE; MATH	
		Major Requirements-----	87 HOURS

GENERAL EDUCATION REQUIREMENTS-----				26 HOURS
	Cr.	Sem. Taken	Grade	
HUMANITIES CORE-----				18 HOURS
HUMA 100	The Humanities: Christian Wisdom	1	<input type="text"/>	<input type="text"/>
HUMA 200	Western Civilization	3	<input type="text"/>	<input type="text"/>
HUMA 202	Civilization and Literature	3	<input type="text"/>	<input type="text"/>
HUMA 204	Civilization and the Arts	3	<input type="text"/>	<input type="text"/>
HUMA 261	Scripture & Theology for the Chr. Life I	3	<input type="text"/>	<input type="text"/>
HUMA 271	Scripture & Theology for the Chr. Life II	3	<input type="text"/>	<input type="text"/>
HUMA 300	Gospel & the Good Life: Christian Ethic	2	<input type="text"/>	<input type="text"/>

WRITING REQUIREMENT-----				3 HOURS
WRIT 101	Found. of Academic Discourse (WI/IL)	3	<input type="text"/>	<input type="text"/>

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 204	Historical & Phil. Found. of Education	SOCW 101	Foundations of Social Work	
POLS 101	Foundations of Political Science	SOCI 101	Foundations of Sociology	
		SOCI 103	Found. of Cultural Anthr.	
		3	<input type="text"/>	<input type="text"/>

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	<input type="text"/>	<input type="text"/>

GENERAL ELECTIVES-----				15 HOURS
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>
			<input type="text"/>	<input type="text"/>

ENGINEERING SCIENCE CORE-----				54 HOURS
		Cr.	Sem. Taken	Grade
BIOL 101	General Biology	4	<input type="text"/>	<input type="text"/>
CHEM 105	Chemistry for Engineers	4	<input type="text"/>	<input type="text"/>
MATH 161	Calculus I	4	<input type="text"/>	<input type="text"/>
MATH 162	Calculus II	4	<input type="text"/>	<input type="text"/>
STAT 131	Statistical Methods I	3	<input type="text"/>	<input type="text"/>
PHYS 101	General Physics Engineering I	4	<input type="text"/>	<input type="text"/>
PHYS 102	General Physics Engineering II	4	<input type="text"/>	<input type="text"/>
MECE 107	Engineering Graphics	2	<input type="text"/>	<input type="text"/>
MECE 109	Intoduction to Solid Modeling	2	<input type="text"/>	<input type="text"/>
MECE 201	Fundamentals of Material Science	3	<input type="text"/>	<input type="text"/>
MECE 211	Mechanics I	3	<input type="text"/>	<input type="text"/>
ENGR 120	Numerical Computing	3	<input type="text"/>	<input type="text"/>
ENGR 156	Introduction to Engineering	2	<input type="text"/>	<input type="text"/>
ENGR 216	Mechatronics I	3	<input type="text"/>	<input type="text"/>
ENGR 304	Design of Experiments	1	<input type="text"/>	<input type="text"/>
ENGR 401	Engineering Design	1	<input type="text"/>	<input type="text"/>
ENGR 402	Engineering Senior Seminar	1	<input type="text"/>	<input type="text"/>
ENGR 451	Capstone Design Laboratory I (WI/SI)	3	<input type="text"/>	<input type="text"/>
ENGR 452	Capstone Design Laboratory II (SI)	3	<input type="text"/>	<input type="text"/>

PLAN OF STUDY				
Biomedical Engineering: -----			33 HOURS	
EXER 253	Anatomy & Physiology I	4	<input type="text"/>	<input type="text"/>
EXER 258	Anatomy & Physiology II	4	<input type="text"/>	<input type="text"/>
BIOL 233	Genetics	4	<input type="text"/>	<input type="text"/>
BIOL 234	Cell Biology	4	<input type="text"/>	<input type="text"/>
ENGR 274	Mathematical Methods Engineering	3	<input type="text"/>	<input type="text"/>
MECE 251	Mechanical Systems Lab I (IL)	1	<input type="text"/>	<input type="text"/>
MECE 252	Mechanical Systems Lab II	1	<input type="text"/>	<input type="text"/>
EXER 309	Biomechanics	3	<input type="text"/>	<input type="text"/>
ENGR 340	Fundamentals Biomedical Engineering	3	<input type="text"/>	<input type="text"/>
ENGR 413	Bio Fluid Mechanics	3	<input type="text"/>	<input type="text"/>
ENGR 414	Biomedical Engineering Design & Regulations	3	<input type="text"/>	<input type="text"/>

* 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