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: TOTAL HOURS REQUIRED FOR THIS DEGREE-----128 HOURS General Education + Elective Requirements-----30 HOURS GENERAL EDUCATION REQUIREMENTS-----26 HOURS Sem. Taken Grade **HUMANITIES CORE--**18 HOURS HUMA 100 The Humanities: Christian Wisdom HUMA 200 Western Civilization HUMA 202 Civilization and Literature HUMA 204 Civilization and the Arts HUMA 261 Scripture & Theology for the Chr. Life I HUMA 271 Scripture & Theology for the Chr. Life II 3 HUMA 300 Gospel & the Good Life: Christian Ethic 2 WRITING REQUIREMENT----WRIT 101 Found. of Academic Discourse (WI/IL) FOUNDATIONS OF THE SOCIAL SCIENCES*-PSYC 101 Foundations of Psychology Choose one course from the following: PSYC 200 Cross-Cultural Psychology ECON 120 Foundations of Economics 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. NATURAL SCIENCE (with lab)/ QUANTITATIVE/LOGICAL REASONIN 0 HOURS (Met through major) (1) Natural Science with lab 4 (Met through major) (2) Quantitative/Logical Reasoning (Met through major) (3) Third course in Natural Science, Quantitative or Logical Reasoning 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 Science, Faith, Technology, & Origins SSFT 212 **GENERAL ELECTIVES--**MAJOR-RELATED REQUIREMENTS---**CHEM 105** Chemistry for Engineers OR CHEM 111 General Chemistry I **CHEM 113** General Chemistry I Lab **ENGR 156** Introduction to Engineering **ENGR 216** Mechatronics I ENGR 274 Math Methods in Engineering Ethics in Engineering **ENGR 301 MATH 161** Calculus I MATH 162 Calculus II

MATH 261

MATH 262 PHYS 101

PHYS 102

Calculus III
Differential Equations

General Physics I

General Physics II

B.S. in Mechanical Engineering Entering in 2025

(REVISED 03-03-2025)

_	Advisor:						
1	Minimum CQ	PA and MQPA required for graduat	ion		2.00		
	MQPA Courses						
-	MECHANICAL E	MCINEEDING DECILIDEMENTS			49 HOURS		
	WECHANICAL EI	NGINEERING REQUIREMEN 13	Cr.		Grade		
	MECE 107	Engineering Graphics	2				
	MECE 109	Intro to Solid Modeling	2				
	ENGR 120	Numerical Computing for Engineers	3				
	MECE 201	Fundamentals of Material Science	3				
	MECE 210 MECE 211	Design for Manufacturing Mechanics I	3 3				
	MECE 211	Mechanics II	3				
	MECE 214	Thermodynamics	3				
	MECE 251	Mechanical Systems Lab I (IL)	1				
	MECE 252	Mechanical Systems Lab II	1				
	MECE 311	Mechanics of Materials	3				
	MECE 312	Stress Analysis/Design of Mach. Comp.	3				
	MECE 316 MECE 325	System Dynamics Fluid Mechanics	3 3				
	MECE 325	Heat Transfer	3				
	MECE 351	Instrumentation Lab (WI)	1				
	MECE 352	Thermal / Fluids Lab	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) NGINEERING ELECTIVES:	3		12 HOURS		
		Im of 3 credit hours from each systems area. At least					
		naximum of 4 hours from one and two credit cour.		ait flouis fliust bo 4	00 10001		
	MECHANICAL	SYSTEMS ELECTIVES:					
	MECE 260/360/	460** Independent Study	1-3				
		470** Independent Research	1-3				
	MECE 303	Computer-Aided Manufacturing	3				
	MECE 390	Special Mechanical Engineering Topics	1-4				
	MECE 408 MECE 410	Mechanical Vibrations Kinematics & Dynamics of Mach.	3 3		-		
	MECE 415	Finite Element Analysis	3				
	MECE 418	Human-Powered Vehicle Design	3		III		
	MECE 428	Biomechanics	3				
	MECE 498	Honors in Mechanical Engineering	1-3				
	ENGR 411	Control Systems	3				
	ROBO 301	Industrial Robotics	3				
	ROBO 302	Mobile Robots TEMS ELECTIVES:	3		-		
		460** Independent Study	1-3				
	MECE 270/370/		1-3				
	MECE 321	Advanced Thermodynamics	3				
	MECE 391	Special Mechanical Engineering Topics	1-4				
	MECE 414	Heating, Ventilating, and Air Conditioning	3				
	MECE 416	Survey of Renewable Energy Systems	3 3				
	MECE 419 MECE 421	Propulsion and Power Applied Fluid Mechanics	3		-		
	MECE 499	Honors in Mechanical Engineering	1-3				
	TECHNICAL EL						
		460** Independent Study	1-3				
	MECE 270/370/		1-3				
	ENGR 209	Solidworks: Modeling & Simulation	2				
	ENGR 317	Mechatronics II	3				
	ENGR 304 ENGR 305	Design of Experiments Introduction to LabVIEW	1 1				
	ENGR 305 ENGR 331	Engr. Mgt. & Cross-Cultural Comm	3				
	ENGR 390	Special Engineering Topics	3				
	ENGR 412	Modern Control Theory	3				
	ENTR 304	Intellectual Property Protection	1				
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^{**} A combined total of up to three credit hours for independent study, independent research, faculty-mentored research, and honors courses can be applied towards the Engineering Electives requirement.

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Freshman Year

Eall Credits Spring Credits Credits		Fres	snman Year						
MECE 107 Engineering Graphics 2 MATH 162 Calculus II 4 MECE 109 Intro to Solid Modeling 2 ENGR 120 Numerical Computing for Engineers 3 Writing Requirement or HUMA Course 3 PHYS 101 General Physics II 4 HUMA 100 The Humanities: Christian Wisdom 1 General Electives 1 Total Time Total Total 1 William Time 4 MATH 262 Differential Equations 3 MECE 201 Fundamentals of Material Science 3 MECE 210 Design for Manufacturing 3 MECE 211 Mechanical Systems Lab II 1 MECE 212 Mechanical Systems Lab II 1 System Security			<u>Spring</u>						
MECE 109 Intro to Solid Modeling. 2 ENGR 120 Numerical Computing for Engineers. 3 Writing Requirement or HUMA Course. 3 PHYS 102 General Physics I. 4 PHYS 101 General Physics I. 4 Writing Requirement or HUMA Course. 3 HUMA 100 The Humanities: Christian Wisdom 16 General Electives. 1 To Sophomore Year Sophomore Year Eall Credits Spring Credits Chemistry for Engineers. 4 MATH 262 Differential Equations. 3 MATH 261 Calculus III. 4 MECE 210 Mechanics II. 3 MECE 211 Fundamentals of Material Science. 3 MECE 212 Mechanics II. 3 MECE 211 Mechanics I. 3 MECE 214 Thermodynamics. 3 MECE 251 Mechanical Systems Lab II. 1 MECE 252 Mechanical Systems Lab III. 1 Systems Ceredits Spring Credits MECE 251 Mechanics of Materials. 3 MECE 325 Stream Allysis/Design of Mach. Comp. 3 MECE 325 Iluid Mechani									
Writing Requirement or HUMA Course. 3 PHYS 102 General Physics I. 4 PHYS 101 Ceneral Physics I. 4 Writing Requirement or HUMA Course. 3 HUMA 100 The Humanities: Christian Wisdom. 1 General Electives. 1 To sophomore Year Sophomore Year Eall Credits Spring Credits CHEM 105 Chemistry for Engineers. 4 MATH 262 Differential Equations 3 MATH 261 Calculus III. 4 MECE 210 Design for Manufacturing. 3 MECE 201 Fundamentals of Material Science. 3 MECE 214 Mechanics II. 3 MECE 211 Mechanical Systems Lab I. 1 MECE 252 Mechanical Systems Lab II. 1 SFT course*. 2 HUMA Course 3 BECE 211 Mechanics of Materials 3 MECE 252 Mechanical Systems Lab III. 1 MECE 321 Mechanics of Materials 3 MECE 312 Stress Analysis/Design of Mach. Comp. 3 MECE 311 Mechanics of Materials 3 MECE 315 System Dynamics. 3 MECE 325 Fluid Mechanics 3 MECE 316 System Dynami									
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General Elective*	HUMA Course	<u>3</u>	ENGR 402 Engineering Senior Seminar	1					
-		16	HUMA 300 Gospel and the Good Life: Christian Ethics	2					
			General Elective*	<u>3</u>					
				14					

^{*}Marked courses are not restricted to the time slots as shown in this suggested schedule.

NOTE: Scheduling time conflicts may occur for students who deviate from the above plan. Any exception to the classes listed on the other side of the page must have prior written approval of the department chairman.

TOTAL CREDIT HOURS REQUIRED = 128