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 Physics/Computer with Hardware Option
Entering in 2025
(REVISED 02-24-2025)

Name: _____

ID# _____   **Date:** _____

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

TOTAL HOURS REQUIRED FOR THIS DEGREE----------------------------------- 128 HOURS	Minimum CQPA and MQPA required for graduation---2.00
	MQPA Courses--ASTR; COMP; PHYS; ELEE; MATH 222
General Education + Elective Requirements------------------------------------ 41-42 HOURS	Major Requirements---86-87 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 Ethics	2		

		Cr.	Sem. Taken	Grade
WRITING REQUIREMENT-- **3 HOURS**				
WRIT 101	Found. of Academic Discourse (WI/IL)	3		

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--- 15-16 HOURS

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PHYSICS CORE REQUIREMENTS-- 40 HOURS

		Cr.	Sem. Taken	Grade
PHYS 101	General Physics I - Engineering	4		
PHYS 102	General Physics II - Engineering	4		
PHYS 135	Horizons in Physics	1		
PHYS 234	Modern Physics	3		
PHYS 242	Introduction to Theoretical Physics	3		
PHYS 288	Intermediate Laboratory (WI)	2		
PHYS 303	Mechanics I	3		
PHYS 321	Radiation Laboratory (SI/IL)	2		
PHYS 442	Computational Methods in Physics	3		
ASTR 207	Introduction to Stars, Galaxies, & Cosmology	3		
COMP 141	Computer Programming I	3		
ELEE 441	Computer Architecture	3		
COMP 244	Database Management Systems	3		
COMP 342	Data Communication and Networking	3		

TECHNICAL ELECTIVES--- 6-7 HOURS
Choose TWO of the following:

PHYS 304 Mechanics II, PHYS 305 Electricity and Magnetism; PHYS 340 Thermodynamics and Statistical Mechanics, PHYS 401 or 402 (Medical Physics), PHYS 421 Advanced Topics, PHYS 431 Quantum Mechanics, ASTR 310 Astrophysics, or MATH 213 Discrete Mathematics for Computer Science.

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COMPUTER HARDWARE REQUIREMENTS-- 20 HOURS

		Cr.	Sem. Taken	Grade
COMP 220	Computer Programming II	3		
ELEE 201	Linear Circuits I	3		
ELEE 202	Linear Circuits II	3		
ELEE 204	Digital Logic	3		
ELEE 251	Lab Skills and Prototyping (IL)	1		
ELEE 252	Digital Circuits Laboratory	1		
ELEE 306	Design of Digital Systems.	3		
ELEE 310	Microcontrollers	3		

TECHNICAL CORE REQUIREMENTS (Science, Math, etc.)------------------------------- 20 HOURS

		Cr.	Sem. Taken	Grade
CHEM 105	Chemistry for Engineers	4		
MATH 161	Calculus I	4		
MATH 162	Calculus II	4		
MATH 261	Calculus III	4		
MATH 262	Differential Equations	3		
MATH 263	Numerical Differential Equations	1		

SAMPLE FOUR-YEAR PLAN for the
BACHELOR OF SCIENCE IN
PHYSICS/COMPUTER with HARDWARE OPTION

Freshman Year

Fall	Credits	Spring	Credits
PHYS 101 General Physics I…………………………………4		PHYS 102 General Physics II……………………………………… 4	
PHYS 135 Horizons in Physics………………………………1		COMP 220 Computer Programming II…………………………… 3	
COMP 141 Computer Programming I………………………3		MATH 162 Calculus II…………………………………………… 4	
MATH 161 Calculus I…………………………………………4		Writing Requirement or HUMA Course………………………… 3	
HUMA 100 The Humanities: Christian Wisdom………….. 1			14
Writing Requirement or HUMA Course……………………3			
	16		

Sophomore Year

Fall	Credits	Spring	Credits
CHEM 105 Chemistry for Engineers……………………… 4		PHYS 288 Intermediate Laboratory…………………………………2	
MATH 261 Calculus III……………………………………… 4		PHYS 234 Modern Physics…………………………………………… 3	
Foundations of Social Science Course……………………3		PHYS 242 Introduction to Theoretical Physics…………………3	
HUMA Course …………………………………………………3		ASTR 207 Introduction to Stars, Galaxies, & Cosmology………3	
SSFT Course……………………………………………………2		HUMA Course …………………………………………………… 3	
	16	Electives*……………………………………………………………3	
			17

Junior Year

Fall	Credits	Spring	Credits
PHYS 303 Mechanics I……………………………………… 3		PHYS 442 Computational Methods in Physics**……………… 3	
COMP 244 Database Management Systems………………3		ELEE 202 Linear Circuits II…………………………………………… 3	
ELEE 201 Linear Circuits I…………………………………3		ELEE 204 Digital Logic ……………………………………….. 3	
ELEE 251 Lab Skills and Prototyping…............................. 1		ELEE 252 Digital Circuits Laboratory…………………………………1	
HUMA Course …………………………………………………3		ELEE 441 Computer Architecture…….............................. 3	
Electives*………………………………………………………3		HUMA Course …………………………………………………………3	
	16		16

Senior Year

Fall	Credits	Spring	Credits
COMP 342 Data Communication and Networking………. 3		PHYS 321 Radiation Laboratory…………………………………2	
HUMA 300 Gospel and the Good Life: Christian Ethics… 2		ELEE 306 Design of Digital Systems………………………………3	
Electives*………………………………………………………12		ELEE 310 Microcontrollers ……………………………………………3	
	17	MATH 262 Differential Equations…………………………………3	
		MATH 263 Numerical Differential Equations……………………1	
		Electives*……………………………………………………………4	
			16

* 6-7 of these electives must be fulfilled by a Technical Elective course.

** The sequencing of MATH 262/263 and PHYS 442 may alternate because PHYS 442 is taught every other year.