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.

B.S. in Physics
Entering in 2024

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

(REVISED 05-17-2024)

Name: _____

ID# _____ **Date:** _____

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

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

General Education + Elective Requirements---------- 47 HOURS

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

MQPA Courses----------ASTR; PHYS

Major Requirements----------81 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 (WI/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	Found. 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

College requirements met through major-related coursework.

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

College requirements met through major-related coursework.

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

PHYE 100	Healthful Living	1		

GENERAL ELECTIVES---------- 23 HOURS

_____
_____
_____
_____
_____
_____
_____

PHYSICS CORE REQUIREMENTS---------- 32 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 210	Electronics **OR**			
	ELEE 201 Linear Circuits I & ELEE 251 Lab Skills & Prototyping (IL)	4		
PHYS 234	Modern Physics	3		
PHYS 288	Intermediate Laboratory (WI)	2		
PHYS 303	Mechanics I	3		
PHYS 305	Electricity and Magnetism	3		
PHYS 321	Radiation Laboratory (SI/IL)	2		
PHYS 431	Quantum Mechanics	3		
ASTR 207	Intro to Stars, Galaxies, & Cosmology	3		

PHYSICS ELECTIVES---------- 12 HOURS

Choose 4 of the following 7 courses:

PHYS 304 Mechanics II, PHYS 310 Optics, PHYS 340 Thermodynamics & Statistical Mechanics, PHYS 401 Radiation & Health Physics or PHYS 402 Medical Imaging & Diagnostic Physics, PHYS 421 Advanced Topics, PHYS 442 Computational Methods in Physics.

_____	3		
_____	3		
_____	3		
_____	3		

TECHNICAL CORE REQUIREMENTS (Science, Math, etc.)---------- 26 HOURS

CHEM 105	Chemistry for Engineers	4	
COMP 141	Computer Programming I	3	
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	
PHYS 242	Introduction to Theoretical Physics	3	

TECHNICAL ELECTIVES---------- 11 HOURS

Any ASTR 300-level courses; any BIOL courses; CHEM 112 and 114; any CHEM 200- or 300-level courses; any COMP 200- or 300-level courses; any ELEE 200- or 300-level courses; any ENGR 200- or 300-level courses; any MATH 300-level courses; any MECE 200- or 300-level courses; PHYS 260, 270, 360, 370, 470; any course approved by the Department Chair.

_____
_____
_____
_____

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN PHYSICS

Freshman Year

Fall	Credits	Spring	Credits
PHYS 101 General Physics I	4	PHYS 102 General Physics II	4
PHYS 135 Horizons in Physics	1	ASTR 207 Introduction to Stars, Galaxies, & Cosmology	3
COMP 141 Computer Programming I	3	MATH 162 Calculus II	4
MATH 161 Calculus I	4	WRIT 101 Foundations of Academic Discourse	3
HUMA 102 Civ and the Biblical Revelation	3	PHYE 100 Healthful Living	1
	15		15

Sophomore Year

Fall	Credits	Spring	Credits
PHYS 210 or ELEE 201 & ELEE 251	4	PHYS 242 Introduction to Theoretical Physics	3
MATH 261 Calculus III	4	PHYS 234 Modern Physics	3
HUMA 202 Civilization and Literature	3	PHYS 288 Intermediate Laboratory	2
SSFT Course	2	HUMA 200 Western Civilization	3
General Electives	4	General Electives	6
	17		17

Junior Year

Fall	Credits	Spring	Credits
CHEM 105 Chemistry for Engineers	4	PHYS 321 Radiation Laboratory	2
PHYS 303 Mechanics I	3	PHYS 431 Quantum Mechanics	3
PHYS 305 Electricity & Magnetism	3	Physics Elective	3
Technical Electives	3	MATH 262 Differential Equations	3
HUMA 301 Civilization and the Arts	3	MATH 263 Numerical Differential Equations	1
	16	HUMA 303 Christianity and Civilization	3
			15

Senior Year

Fall	Credits	Spring	Credits
Physics Elective	3	Physics Electives	6
Technical Electives	4	Technical Electives	4
Foundations of Social Science Course	3	General Electives	7
General Electives	6		17
	16		