

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 and Secondary Education

Certification

Entering in 2025

(REVISED 02-24-2025)

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

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

TOTAL HOURS REQUIRED FOR THIS DEGREE-----	142-145 HOURS
General Education + Elective Requirements-----	26 HOURS

Minimum CQPA and MQPA required for graduation-----	2.00
Minimum QPAs required for certification-----	CQPA 3.00; MQPA 2.75
MQPA Courses-----	ASTR; PHYS
Major Requirements-----	116-118 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	_____	_____

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:

ECON 120 Foundations of Economics	PSYC 101 Foundations of Psychology	3	_____	_____
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	_____	_____

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----- 0 HOURS

TECHNICAL ELECTIVES----- 6-8 HOURS

Choose six to eight hours from ASTR 310; any BIOL courses; CHEM 112 and 114; CHEM 345; COMP 220, 222, 244, 246, 252, 340, 342, 350; any Engineering course (except ENGR 156, 210, 402, or ELEE 201, 251); any MATH 300- or 400-level courses; PHYS 486; any additional course approved by the Dept. Chair. A maximum of three hours from PHYS 270, 370, and 470 may also count toward this requirement.

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	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 Introduction 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, or 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	_____	_____

PROFESSIONAL EDUCATION REQUIREMENTS----- 40 HOURS

EDUC 102 Educational Psychology	3	_____	_____
EDUC 202^ Introduction to the Teaching Profession (IL)	3	_____	_____
EDUC 203 Culturally Relevant Pedagogy (IL)	3	_____	_____
EDUC 204 Technologies of Instruction	3	_____	_____
EDUC 215 Secondary Curriculum & Instruction I	2	_____	_____
EDUC 317 Secondary Math/Scic Curriculum & Instruc II	2	_____	_____
EDUC 271 Field Experience	1	_____	_____
EDUC 375 Secondary Field Experience (3rd Level)	1	_____	_____
EDUC 450 Student Teaching (SI)	16	_____	_____
EDUC 488 Issues in Education (WI/SI/IL)	3	_____	_____
SEDU 102 Exceptional Learners for 7-12 & K-12	2	_____	_____
SEDU 103 Methods of Sec. Spec. Educ Implementation	1	_____	_____

^ Students with EDUC 205 credit must take EDUC 206 to complete the EDUC 202 requirement.

**SAMPLE FOUR-YEAR PLAN for the
BACHELOR OF SCIENCE IN
PHYSICS and SECONDARY EDUCATION CERTIFICATION**

Freshman Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
PHYS 101 General Physics I.....	4	PHYS 102 General Physics II.....	4
PHYS 135 Horizons in Physics.....	1	COMP 141 Computer Programming I.....	3
MATH 161 Calculus I.....	4	MATH 162 Calculus II.....	4
EDUC 102 Educational Psychology.....	3	EDUC 202 Introduction to the Teaching Profession.....	3
HUMA 100 The Humanities: Christian Wisdom.....	1	Writing Requirement or HUMA Course.....	<u>3</u>
Writing Requirement or HUMA Course.....	<u>3</u>		17
	16		

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 105 Chemistry for Engineers.....	4	PHYS 234 Modern Physics.....	3
EDUC 203 Culturally Relevant Pedagogy.....	3	PHYS 242 Introduction to Theoretical Physics.....	3
EDUC 204 Technologies of Instruction.....	3	PHYS 288 Intermediate Laboratory.....	2
MATH 261 Calculus III.....	4	ASTR 207 Introduction to Stars, Galaxies, & Cosmology.....	3
HUMA Course	<u>3</u>	HUMA Course	3
	16	EDUC 215 Secondary Curriculum & Instruction [^]	2
		EDUC 271 Field Experience (Secondary) [^]	<u>1</u>
		[^] EDUC 215 and 271 must be taken together	17

Non-traditional Term

HUMA Course.....3

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
PHYS 210 or ELEE 201 & 251.....	4	PHYS 431 Quantum Mechanics.....	3
PHYS 303 Mechanics I.....	3	Physics Electives.....	6
PHYS 305 Electricity and Magnetism.....	3	Technical Elective.....	3
Technical Elective.....	3-4	SEDU 102 Exceptional Learners for 7-12 & K-12.....	2
EDUC 317 Secondary Math/Scic Curriculum & Instructor	2	SEDU 103 Methods of Sec. Spec. Educ. Implementation.....	1
EDUC 375 Secondary Field Experience (3rd Level).....	1	Foundations of Social Science Course.....	<u>3</u>
SSFT Course.....	<u>2</u>		18
	18-19*		

Non-traditional Term

HUMA Course.....3

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
EDUC 450 Student Teaching.....	<u>16</u>	PHYS 321 Radiation Laboratory.....	2
	16	Physics Electives.....	6
		MATH 262 Differential Equations.....	3
		MATH 263 Numerical Differential Equations.....	1
		EDUC 488 Issues in Education.....	3
		HUMA 300 Gospel and the Good Life: Christian Ethics.....	<u>2</u>

* additional charges are incurred for credit hours exceeding 18- see Bulletin for details