

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 2024**
(REVISED 04-12-2024)

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

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

TOTAL HOURS REQUIRED FOR THIS DEGREE -----	140-142 HOURS
General Education + Elective Requirements -----	24 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----- 24 HOURS

	Cr.	Sem. Taken	Grade
HUMANITIES CORE----- 15 HOURS			
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----- 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 371	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	2	_____

^ 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 102 Civ and the Biblical Revelation.....	3	WRIT 101 Foundations of Academic Discourse.....	<u>3</u>
PHYE 100 Healthful Living.....	<u>1</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 200 Western Civilization.....	<u>3</u>	HUMA 301 Civilization and the Arts.....	3
	16	EDUC 215 Secondary Curriculum & Instruction [^]	2
		EDUC 371 Field Experience (Secondary) [^]	<u>1</u>
		[^] EDUC 215 and 371 must be taken together	17

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	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		

Intersession Course

HUMA 202 Civilization and Literature.....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 303 Christianity and Civilization.....	<u>3</u>
			18