

# 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 and Secondary Education Certification Entering in 2021

(REVISED 03-01-2021)

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Year of Anticipated Graduation: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor: \_\_\_\_\_

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

GENERAL EDUCATION REQUIREMENTS-----24 HOURS

PHYSICS CORE REQUIREMENTS-----32 HOURS

	Cr.	Sem. Taken	Grade
<b>HUMANITIES CORE-----15 HOURS</b>			
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	_____	_____

	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	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	_____	_____

\*The year-long sequence of RELI 211 and 212 may substitute for this course.

WRITING REQUIREMENT-----3 HOURS

WRIT 101 Found. of Academic Discourse (IL)	3	_____	_____
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PHYSICS ELECTIVES-----12 HOURS

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	_____	_____

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	_____	_____

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	_____

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

QUANTITATIVE/LOGICAL REASONING-----0 HOURS

College requirements met through major-related coursework.

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	_____	_____

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

College requirements met through major-related coursework.

PROFESSIONAL EDUCATION REQUIREMENTS-----40 HOURS

PHYSICAL EDUCATION-----1 HOURS

PHYE 100 Healthful Living	1	_____	_____
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EDUC 202^ Introduction to the Teaching Profession	3	_____	_____
EDUC 203 Culturally Relevant Pedagogy	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 431 Student Teaching	16	_____	_____
EDUC 488 Issues in Education/Comparative Education	3	_____	_____
PSYC 102 Educational Psychology	3	_____	_____
SEDU 102 Exceptional Learners for 7-12 & K-12	2	_____	_____
SEDU 103 Methods of Sec. Spec. Educ Implementation	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; or 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.

^ 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
PSYC 102 Educational Psychology.....	3	SSFT Course.....	2
HUMA 102 Civ and the Biblical Revelation.....	3	WRIT 101 Foundations of Academic Discourse.....	<u>3</u>
PHYE 100 Healthful Living.....	<u>1</u>		16
	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 202 Introduction to the Teaching Profession.....	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
	17	EDUC 215 Secondary Curriculum & Instruction.....	2
		EDUC 371 Field Experience (Secondary).....	<u>1</u>
			17

**Interession Course**

EDUC 203 Culturally Relevant Pedagogy.....3

**Junior Year**

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
PHYS 210 Electronics.....	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	EDUC 317 Secondary Math/Scic Curriculum & Instruction II...	2
SEDU 102 Exceptional Learners for 7-12 & K-12.....	2	EDUC 375 Secondary Field Experience (3rd Level).....	1
SEDU 103 Methods of Sec. Spec. Educ. Implementation <u>1</u>	<u>1</u>	Foundations of Social Science Course.....	3
	16		18

**Interession Course**

HUMA 202 Civilization and Literature.....3

**Senior Year**

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
EDUC 431 Student Teaching, Secondary.....	<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/Comparative Education.....	3
		HUMA 303 Christianity and Civilization.....	<u>3</u>
			18