

Grove City College Status Sheet

B.S. in Physics with Certification in Secondary Physics Education Entering in 2012

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.

(3-23-12)

Name: _____ ID#: _____ Date: _____

Year of Anticipated Graduation: _____ Advisor: _____

TOTAL HOURS REQUIRED FOR THIS DEGREE.....139 HOURS

General Education + Elective Requirements.....23 HOURS

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

Certification minimum CQPA: 3.00; MQPA: 2.75

MQPA Courses..... ASTR; PHYS

Major Requirements.....116-118 HOURS

GENERAL EDUCATION REQUIREMENTS..... 23 HOURS

HUMANITIES CORE.....18 HOURS

	Cr.	Sem. Taken	Grade
HUMA 101 Civilization (IL)	3	_____	_____
HUMA 102 Biblical Revelation (IL)*	3	_____	_____
HUMA 201 Speculative Mind (WI) (IL)	3	_____	_____
HUMA 202 Literature	3	_____	_____
HUMA 301 Arts	3	_____	_____
HUMA 302 International Perspective	3	_____	_____

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

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT).....3 HOURS

Choose one course from the following:

SSFT 208 Science, Technology & Society

SSFT 210 Science & Religion

SSFT 212 Science, Faith, Technology & Origins

_____ 3 _____

FOUNDATIONS OF THE SOCIAL SCIENCE.....0 HOURS

College requirements met through major-related coursework.

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.....2 HOURS

PHYE 101 (men) / 111 (women) 1 _____

PHYE 102 (men) / 112 (women) 1 _____

GENERAL ELECTIVES..... 0 HOURS

PHYSICS CORE REQUIREMENTS..... 32 HOURS

	Cr.	Sem. Taken	Grade
PHYS 101 General Physics I	4	_____	_____
PHYS 102 General Physics II	4	_____	_____
PHYS 135 Horizons in Physics	1	_____	_____
PHYS 210 Electronics	4	_____	_____
PHYS 232 Intermed. General Physics	3	_____	_____
PHYS 234 Modern Physics	3	_____	_____
PHYS 288 Intermediate Lab. (WI)	2	_____	_____
PHYS 303 Mechanics I	3	_____	_____
PHYS 305 Electricity & Magnetism	3	_____	_____
PHYS 321 Radiation Lab (SI) (IL)	2	_____	_____
PHYS 431 Quantum Mechanics	3	_____	_____

PHYSICS ELECTIVES..... 12 HOURS

Choose 4 of the following 5 courses:

PHYS 304 Mechanics II	3	_____	_____
PHYS 310 Optics	3	_____	_____
PHYS 340 Thermodynamics/Stat Mechanics	3	_____	_____
PHYS 421 Advanced Topics	3	_____	_____
PHYS 442 Comp. Methods	3	_____	_____

PROFESSIONAL EDUCATION REQUIREMENTS..... 40 HOURS

EDUC 202 Foundations of Teaching	3	_____	_____
EDUC 203 Culturally Relevant Pedagogy	3	_____	_____
EDUC 305 Science Curriculum & Instruction	3	_____	_____
EDUC 309 Field Exp Teach Science	2	_____	_____
EDUC 371 Field Experience	1	_____	_____
EDUC 431 Student Teaching	16	_____	_____
EDUC 488 Issues / Comp Educ	3	_____	_____
HIST 204 Foundations Hist/Phil Educ (IL)	3	_____	_____
PSYC 102 Educational Psychology	3	_____	_____
SEDU 101 Exceptional Learners	3	_____	_____

TECHNICAL ELECTIVES.....6-8 HOURS

Recommended: PHYS 260, 270, 360, 370, 470; any Engineering course (except ENGR 156, 210, 402, or ELEE 201/251); any 300-400 level MATH course; any BIOL course; COMP 220, 222, 244, 246, 252, 342, 440, 450; CHEM 345; or any course approved by the department.

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

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 Diff. Equations	1	_____	_____
PHYS 242 Intro to Theoretical Physics	3	_____	_____
COMP 141 Intro to Programming	3	_____	_____

Suggested 4-year plan for students seeking a B.S. in Physics and Leading to Secondary Certification in Physics Education (PSED)

Fall	Credits	Spring	Credits
Freshman Year			
HUMA 101 Civilization	3	CHEM 105 Chemistry for Engineers	4
MATH 161 Calculus I	4	EDUC 371 Field Experience	1
PHYE 101 (Men) 111 (Women)	1	HUMA 102 Biblical Revelation	3
PHYS 101 General Physics I	4	MATH 162 Calculus II	4
PHYS 135 Horizons in Physics	1	PHYE 102 (Men) 112 (Women)	1
PSYC 102 Educational Psychology	<u>3</u>	PHYS 102 General Physics II	<u>4</u>
	16		17
Sophomore Year			
HIST 204 Foundations Hist/Phil Educ	3	EDUC 202 Found of Teaching	3
HUMA 201 Civ/Speculative Mind	3	HUMA 202 Civ/Literature	3
MATH 261 Calculus III	4	PHYS 234 Modern Physics	3
PHYS 232 Intermediate General Physics	3	PHYS 242 Intro to Theo. Phys.	3
PHYS 210 Electronics	<u>4</u>	PHYS 288 Intermediate Laboratory	2
	17	SSFT	3
			17
Intersession Course			
	HUMA 301	3	
Junior Year			
COMP 141 Intro to Programming	3	EDUC 203 Culturally Rel. Pedagogy	3
PHYS 303 Mechanics I	3	EDUC 305 Curriculum & Instruction	3
PHYS 305 Electricity and Magnetism	3	EDUC 309 Field Exp Teaching Science	2
PHYS elective	3	PHYS 431 Quantum Mech.	3
SEDU 101 Exceptional Learners	3	PHYS elective	3
Technical Elective	<u>3-4</u>	Technical Elective	<u>3-4</u>
	18-19		17-18
Senior Year			
EDUC 431 Student Teaching	<u>16</u>	EDUC 488 Issues/Comp Educ	3
	16	HUMA 302 Internat'l Perspective	3
		MATH 262 Differential Equations	3
		MATH 263 Numerical Diff Equations	1
		PHYS 321 Radiation Laboratory	2
		PHYS electives	<u>6</u>
			18