

Grove City College Status Sheet

B.S. in Physics/ Computer with Hardware Option Entering in 2015 (3-23-2015)

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.

Name: _____ ID#: _____ Date: _____

Year of Anticipated Graduation: _____ Advisor: _____

TOTAL HOURS REQUIRED FOR THIS DEGREE..... 128 HOURS

General Education + Elective Requirements..... 39-40 HOURS

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

MQPA Courses..... ASTR; COMP; PHYS; ELEE; MATH 222

Major Requirements..... 88 HOURS

GENERAL EDUCATION REQUIREMENTS..... 26 HOURS

HUMANITIES CORE..... 15 HOURS

	Cr.	Sem. Taken	Grade
HUMA 102 Biblical Revelation (IL)*	3	_____	_____
HUMA 200 Western Civilization	3	_____	_____
HUMA 202 Literature	3	_____	_____
HUMA 301 Arts	3	_____	_____
HUMA 303 Speculative Mind	3	_____	_____

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

WRITING REQUIREMENT..... 3 HOURS

WRIT 101 Foundations of Academic Discourse (IL) _____

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

Choose one course from the following:

PHIL 243 Science and the Human: Inquiry

SSFT 210 Science & Religion

SSFT 212 Science, Faith, Technology & Origins

_____ 3 _____

FOUNDATIONS OF THE SOCIAL SCIENCES..... 3 HOURS

Choose one social science course from the following:

ECON 120 Foundations of Economics

HIST 120 Foundations of History

HIST 204 Hist/Phil Foundations of Education

POLS 101 Foundations of Political Science

PSYC 101 Foundations of Psychology

PSYC 200 Cross-Cultural Psychology

SOCI 101 Foundations of Sociology

SOCI 103 Foundations of Cultural Anthropology

_____ 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..... 2 HOURS

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

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

GENERAL ELECTIVES 13-14 HOURS

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

PHYSICS/COMPUTER CORE REQUIREMENTS..... 40 HOURS

	Cr.	Sem. Taken	Grade
PHYS 101 General Physics I	4	_____	_____
PHYS 102 General Physics II	4	_____	_____
PHYS 135 Horizons in Physics	1	_____	_____
PHYS 232 Intermed. General Physics	3	_____	_____
PHYS 234 Modern Physics	3	_____	_____
PHYS 242 Intro to Theoretical Physics	3	_____	_____
PHYS 288 Intermediate Lab. (WI)	2	_____	_____
PHYS 303 Mechanics I	3	_____	_____
PHYS 321 Radiation Lab (SI) (IL)	2	_____	_____
PHYS 442 Comp Methods	3	_____	_____
COMP 141 Comp Programming I	3	_____	_____
COMP 244 Database Mgmt. Sys.	3	_____	_____
COMP 252 Comp Archit & Organiz	3	_____	_____
COMP 342 Data Comm & Networking	3	_____	_____

TECHNICAL ELECTIVES..... 3 HOURS

Choose ONE of the following:

PHYS 304 Mechanics II	3	_____	_____
PHYS 305 Elec & Magnet	3	_____	_____
PHYS 421 Advanced Topics	3	_____	_____
PHYS 431 Quantum Mechanics	3	_____	_____

COMPUTER HARDWARE REQUIREMENTS..... 21 HOURS

ELEE 201 Linear Circuits I	3	_____	_____
ELEE 202 Linear Circuits II	3	_____	_____
ELEE 204 Digital Logic Design	3	_____	_____
ELEE 251 Linear Circuits Lab	1	_____	_____
ELEE 252 Digital Circuits Lab	1	_____	_____
ELEE 306 Digital Electronics	3	_____	_____
ELEE 310 Embedded Systems	4	_____	_____
COMP 220 Comp Programming II	3	_____	_____

TECHNICAL CORE REQUIREMENTS 24 HOURS

CHEM 105 Chemistry for Engineers	4	_____	_____
MATH 161 Calculus I	4	_____	_____
MATH 162 Calculus II	4	_____	_____
MATH 213 Discrete Math	4	_____	_____
MATH 261 Calculus III	4	_____	_____
MATH 262 Differential Equations	3	_____	_____
MATH 263 Numerical Diff. Equations	1	_____	_____

Suggested Four-Year Plan Physics/Computer Major (PCMP) with Hardware Option (PCHC)

Freshman Year

PHYS 101 General Physics I	4	PHYS 102 General Physics II	4
MATH 161 Calculus I	4	MATH 162 Calculus II	4
HUMA 102 Biblical Revelation	3	WRIT 101 Found of Acad Discourse	3
PHYE 101 (Men) 111 (Women)	1	PHYE 102 (Men) 112 (Women)	1
COMP 141 Comp Programming I	3	CHEM 105 Chemistry for Engineers	<u>4</u>
PHYS 135 Horizons in Physics	<u>1</u>		16
	16		

Sophomore Year

PHYS 232 Intermediate General Physics	3	PHYS 234 Modern Physics	3
MATH 261 Calculus III	4	PHYS 288 Intermediate Laboratory	2
HUMA 200 Western Civilization	3	HUMA 202 Civ/Literature	3
COMP 220 Computer Programming II	3	Found of social science	3
SSFT	<u>3</u>	PHYS 242 Intro to Theo. Physics	3
	16	Elective*	<u>3</u>
			17

Junior Year

PHYS 303 Mechanics I	3	ELEE 202 Linear Circuit II	3
ELEE 201 Linear Circuit I	3	ELEE 252 Digital Circuits Lab	1
ELEE 251 Linear Circuits Lab	1	HUMA 303 Speculative Mind	3
HUMA 301 Civ/Arts	3	ELEE 204 Digital Logic Design	3
Elective*	3	PHYS 442 Comp Methods**	3
COMP 244 Database Mgt. Systems	<u>3</u>	COMP 252 Comp Archit/Organization	<u>3</u>
	16		16

Senior Year

COMP 342 Data Comm & Networking	3	ELEE 306 Digital Electronics	3
MATH 213 Discrete Math	4	ELEE 310 Embedded Systems	4
Electives*	6	MATH 262 Differential Equations**	3
ELEE 301 Electronics	<u>3</u>	MATH 263 Numerical Diff. Equations**	1
	16	Elective*	2
		PHYS 321 Radiation Laboratory	<u>2</u>
			15

* 3 of these elective credits must be fulfilled by a Technical Elective; 3 other credits by a Computer Hardware Requirement choice.

**The sequencing of MATH 262/263 and PHYS 442 may alternate because PHYS 442 is taught every other year.