

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/Computer with Software Option
Entering in 2022
 (REVISED 01-01-2022)

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

TOTAL HOURS REQUIRED FOR THIS DEGREE----- 128 HOURS

General Education + Elective Requirements-----38-40 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 (IL)	3	_____	_____
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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	_____	_____
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GENERAL ELECTIVES----- 14-16 HOURS

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

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

Major Requirements-----88-90 HOURS

PHYSICS CORE REQUIREMENTS----- 40 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 234	Modern Physics	3	_____	_____
PHYS 242	Introduction to Theoretical Physics	3	_____	_____
PHYS 288	Intermediate Laboratory (WI)	2	_____	_____
PHYS 303	Mechanics I	3	_____	_____
PHYS 321	Radiation Laboratory (SI) (IL)	2	_____	_____
PHYS 442	Computational Methods in Physics	3	_____	_____
ASTR 207	Introduction to Stars, Galaxies, & Cosmology	3	_____	_____
COMP 141	Computer Programming I	3	_____	_____
COMP 244	Database Management Systems	3	_____	_____
COMP 342	Data Communication and Networking	3	_____	_____
COMP 424	Parallel and Distributed Computing	3	_____	_____

TECHNICAL ELECTIVES----- 3 HOURS

Choose ONE of the following:

PHYS 304	Mechanics II, PHYS 305 Electricity and Magnetism; PHYS 340 Thermodynamics and Statistical Mechanics, PHYS 421 Advanced Topics, or PHYS 431 Quantum Mechanics, or ASTR 310 Astrophysics.	3	_____	_____
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COMPUTER SOFTWARE REQUIREMENTS-----25-27 HOURS

COMP 220	Computer Programming II	3	_____	_____
COMP 222	Introduction to Data Structures/Algorithms	3	_____	_____
COMP 325	Computer Architecture and Organization	3	_____	_____
COMP 340	Operating Systems	3	_____	_____
COMP 350	Software Engineering	3	_____	_____
PHYS 210	Electronics	4	_____	_____

Choose TWO of the following (6-8 hours):

ELEE 204; COMP 480 or PHYS 270/370/470 (Limit 3 hrs); COMP 314 or any 400-level COMP course; MATH 213*, 222*.				
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*If you complete MATH 213 and 222, you will receive a minor in Mathematics.

TECHNICAL CORE REQUIREMENTS (Science, Math, etc.)----- 20 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 Differential Equations	1	_____	_____

SAMPLE FOUR-YEAR PLAN for the
BACHELOR OF SCIENCE IN
PHYSICS/COMPUTER with SOFTWARE OPTION

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 220 Computer Programming II.....	3
COMP 141 Computer Programming I.....	3	MATH 162 Calculus II.....	4
MATH 161 Calculus I.....	4	HUMA 102 Civ and the Biblical Revelation.....	3
WRIT 101 Foundations of Academic Discourse.....	<u>3</u>	PHYE 100 Healthful Living.....	<u>1</u>
	15		15

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
MATH 213 Discrete Mathematics for Comp. Science***... 3-4	3-4	PHYS 242 Introduction to Theoretical Physics.....	3
MATH 261 Calculus III.....	4	PHYS 288 Intermediate Laboratory.....	2
HUMA 200 Western Civilization.....	3	ASTR 207 Introduction to Stars, Galaxies, & Cosmology.....	3
Electives*.....	<u>2-3</u>	SSFT Course.....	2
	17	Electives*.....	<u>3</u>
			16

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
PHYS 210 Electronics.....	4	PHYS 321 Radiation Laboratory.....	2
PHYS 303 Mechanics I.....	3	PHYS 442 Computational Methods in Physics**.....	3
COMP 222 Data Structures and Algorithms.....	3	COMP 342 Data Communication and Networking.....	3
Technical Elective.....	3	COMP 424 Parallel and Distributed Computing.....	3
HUMA 301 Civilization and the Arts.....	<u>3</u>	HUMA 202 Civilization and Literature.....	3
	16	Electives*.....	<u>3</u>
			17

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
COMP 244 Database Management Systems.....	3	COMP 340 Operating Systems.....	3
COMP 305 Computer Architecture and Organization.....	3	COMP 350 Software Engineering.....	3
Foundations of Social Science Course.....	3	MATH 262 Differential Equations.....	3
HUMA 303 Christianity and Civilization.....	3	MATH 263 Numerical Differential Equations.....	1
Electives*.....	<u>4</u>	Electives*.....	<u>6</u>
	16		16

* 3-4 credits will be fulfilled by a Computer Software Requirement choice.

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

*** Recommended Computer Software Requirement selection.