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.

 $\label{eq:wij} \mbox{WI)=Writing Intensive, (SI)=Speaking Intensive, (IL)=Information Literacy courses.}$

B.S. in Physics/Computer with Software Option Entering in 2023

(REVISED 03-09-2023)

Name:								
ID#				Date:				
Year of Ant	ticipated Graduation:			Advisor:				
TOTAL HOUR	S REQUIRED FOR THIS DEGREE		128 HOURS	Minimum CQI	PA and MQPA required for graduation			2.00
				MQPA Course	esASTI	R; CON	IP; PHYS; ELEF	E; MATH 222
General Educ	ation + Elective Requirements		38-40 HOURS	Major Require	ements		88	-90 HOURS
GENERAL ED	UCATION REQUIREMENTS		24 HOURS	PHYSICS COI	RE REQUIREMENTS			40 HOURS
		Cr. Sem.	Taken Grade			Cr.	Sem. Taken	Grade
HUMANITIE	S CORE		15 HOURS	PHYS 101	General Physics I - Engineering	4		
HUMA 102	Civ and the Biblical Revelation (IL)*	3		PHYS 102	General Physics II - Engineering	4		
HUMA 200	Western Civilization	3		PHYS 135	Horizons in Physics	1		
HUMA 202	Civilization and Literature	3		PHYS 234	Modern Physics	3		
HUMA 301	Civilization and the Arts	3		PHYS 242	Introduction to Theoretical Physics	3		
HUMA 303	Christianity and Civilization	3		PHYS 288	Intermediate Laboratory (WI)	2		
*The year-long sequence of RELI 211 and 212 may substitute for this course.				PHYS 303	Mechanics I	3		
,		.,		PHYS 321	Radiation Laboratory (SI) (IL)	2		
WRITING RE	EQUIREMENT		3 HOURS	PHYS 442	Computational Methods in Physics	3		
WRIT 101	Found. of Academic Discourse (IL)	3	0000	ASTR 207	Introduction to Stars, Galaxies, & Cosmology			-
***************************************	rodina. or rodderino Biocodroc (iz)			COMP 141	Computer Programming I	3		
STUDIES IN	SCIENCE, FAITH, & TECHNOLOGY (S	SSFT\	2 HOURS	COMP 244	Database Management Systems	3		
	course from the following:	JOI 1)	2 1100R0	COMP 342	Data Communication and Networking	3		-
	SSFT 205 Ethics, Faith, and the Conscio	ue Mind		COMP 424	Parallel and Distributed Computing	3		-
PHIL 243	Science and the Human: Inquiry, Des		on	COIVII 424	r arailer and Distributed Computing	3		-
SSFT 210	Science & Religion	sign, & the reis	OH	TECHNICAL F	ELECTIVES			3 HOLIDS
SSFT 212	Science, Faith, Technology, & Origin	c			of the following:			- 3 1100113
331 1 2 12	Science, railin, reciniology, & Origin	2			· ·	otiom: E	UVC 240 Thorw	andynamica
		_			Mechanics II, PHYS 305 Electricity and Magnetical Mechanics II, PHYS 424 Advanced Tenion			-
EOUNDATIO	ONS OF THE SOCIAL SCIENCES		2 HOLIDS		tical Mechanics, PHYS 421 Advanced Topics, () Astrophysics.	JI PHT	5 45 i Quantum	iviechanics, or
			3 HOURS	ASIKSI	Astrophysics.	3		
	course from the following:	DCVC 404 F	and of Danahalan.	-		- 3		-
ECON 120	Foundations of Economics		Found. of Psychology	COMPUTED	SOFTWARE REQUIREMENTS			25 27 HOUDS
HIST 120	Foundations of History		Cross-Cultural Psychology					23-27 HOURS
HIST 141	World Geography		oundations of Sociology	COMP 220	Computer Programming II	3		
HIST 204	Hist/Phil Foundations of Education		ound. of Cultural Anthr.	COMP 222	Introduction to Data Structures/Algorithms	3		
POLS 101	Foundations of Political Science		Found. of Social Work	COMP 325	Computer Architecture and Organization	3		
		_ 3		COMP 340	Operating Systems	3		-
				COMP 350	Software Engineering	3		
	IVE/LOGICAL REASONING		0 HOURS	PHYS 210	Electronics	4		
College requ	irements met through major-related cour	sework.		I				
					of the following (6-8 hours):			
NATURAL SCIENCES (with labs) 0 HOURS					ELEE 204; COMP 480 or PHYS 270/370/470 (Limit 3 hrs); COMP 314 or any 400-level COMP			
College requ	irements met through major-related cour	sework.		course; M	ATH 213*, 222*.			
	EDUCATION		1 HOURS					
PHYE 100	Healthful Living	1		*If you comple	ete MATH 213 and 222, you will receive a mino	r in Mat	thematics.	
				TECHNICAL (CORE REQUIREMENTS (Science, Math, etc.)			20 HOURS
GENERAL E	LECTIVES		14-16 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>	Spring	<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
	Soph	nomore Year	
<u>Fall</u>	<u>Credits</u>	Spring	<u>Credits</u>
CHEM 105 Chemistry for Engineers	4	PHYS 234 Modern Physics	3
MATH 213 Discrete Mathematics for Comp. Science	e***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
	Ju	nior Year	
<u>Fall</u>	Ju <u>Credits</u>	nior Year Spring	<u>Credits</u>
Fall PHYS 210 Electronics	<u>Credits</u>		
	<u>Credits</u> 4	<u>Spring</u>	2
PHYS 210 Electronics	<u>Credits</u> 4	Spring PHYS 321 Radiation Laboratory	3
PHYS 210 ElectronicsPHYS 303 Mechanics I	<u>Credits</u> 4 3	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics**	2 3
PHYS 210 Electronics PHYS 303 Mechanics I COMP 222 Data Structures and Algorithms	<u>Credits</u> 4 3 3	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking	2 3 3
PHYS 210 Electronics. PHYS 303 Mechanics I COMP 222 Data Structures and Algorithms. Technical Elective.	<u>Credits</u> 4 3 3	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking COMP 424 Parallel and Distributed Computing	2 3 3 3
PHYS 210 Electronics. PHYS 303 Mechanics I COMP 222 Data Structures and Algorithms. Technical Elective.	<u>Credits</u> 4 3 3 3	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking COMP 424 Parallel and Distributed Computing HUMA 202 Civilization and Literature	2 3 3 3
PHYS 210 Electronics. PHYS 303 Mechanics I COMP 222 Data Structures and Algorithms. Technical Elective.	<u>Credits</u> 433333	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking COMP 424 Parallel and Distributed Computing HUMA 202 Civilization and Literature	2 3 3 3 3
PHYS 210 Electronics. PHYS 303 Mechanics I COMP 222 Data Structures and Algorithms. Technical Elective.	<u>Credits</u> 433333	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking COMP 424 Parallel and Distributed Computing HUMA 202 Civilization and Literature	2 3 3 3 3
PHYS 210 Electronics	<u>Credits</u> 433333	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking COMP 424 Parallel and Distributed Computing HUMA 202 Civilization and Literature. Electives*	23333317
PHYS 210 Electronics	<u>Credits</u> 43333 16 Se <u>Credits</u> 3	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking COMP 424 Parallel and Distributed Computing HUMA 202 Civilization and Literature Electives* Enior Year Spring	23333333
PHYS 210 Electronics	Credits	Spring PHYS 321 Radiation Laboratory	23333333333
PHYS 210 Electronics. PHYS 303 Mechanics I	Credits	Spring PHYS 321 Radiation Laboratory PHYS 442 Computational Methods in Physics** COMP 342 Data Communication and Networking COMP 424 Parallel and Distributed Computing HUMA 202 Civilization and Literature Electives* Enior Year Spring COMP 340 Operating Systems COMP 350 Software Engineering	233333333333
PHYS 210 Electronics	Credits	Spring PHYS 321 Radiation Laboratory	233333333333

^{* 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.