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.

B.S. in Computer Science Entering in 2023

(REVISED 03-07-2023)

(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**	**Minimum CQPA and MQPA required for graduation**------------------------------**2.00**
	MQPA Courses---**COMP; DSCI; MATH 213**
General Education + Elective Requirements----------------------**36-39 HOURS**	**Major Requirements**---**89-92 HOURS**

GENERAL EDUCATION REQUIREMENTS-- **22 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	_____	_____

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)-------------------------- **0 HOURS**
College requirements met through major-related coursework.

FOUNDATIONS OF THE SOCIAL SCIENCES--- **3 HOURS**
Choose one course from the following:

ECON 120	Foundations of Economics	PSYC 101	Foundations 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	_____	_____

GENERAL ELECTIVES---**14-17 HOURS**

_____
_____
_____
_____
_____
_____

COMPUTER SCIENCE CORE REQUIREMENTS-- **27 HOURS**

		Cr.	Sem. Taken	Grade
COMP 141	Computer Programming I	3	_____	_____
COMP 155	Introduction to Computer Science	3	_____	_____
COMP 220	Computer Programming II	3	_____	_____
COMP 222	Intro. to Data Structures & Algorithms	3	_____	_____
COMP 230	Advanced Programming	3	_____	_____
COMP 244	Database Management Systems	3	_____	_____
COMP 314	Automata Theory	3	_____	_____
COMP 325	Computer Architecture & Organization	3	_____	_____
COMP 342	Data Communication & Networking	3	_____	_____

ADVANCED COMPUTER CORE REQUIREMENTS--- **23 HOURS**

COMP 205	Ethics, Faith, and the Conscious Mind (IL)	3	_____	_____
COMP 340	Operating Systems	3	_____	_____
COMP 350	Software Engineering (WI, SI, IL)	3	_____	_____
COMP 422	Theory of Algorithms	3	_____	_____
COMP 424	Parallel and Distributed Computing	3	_____	_____
COMP 448	Computer Security	3	_____	_____
COMP 451	Senior Project I (IL)	2	_____	_____
COMP 452	Senior Project II (WI, SI, IL)	3	_____	_____

COMPUTER SCIENCE ELECTIVES-- **15 HOURS**
Choose fifteen hours from the following courses:
COMP 390 Topics in Computer Science, COMP 401 Principles of iOS Programming, COMP 402 Principles of Android Programming, COMP 435 Intro to Machine Learning, COMP 441 2D Game Design/Development, COMP 442 Web Programming Technologies, COMP 445 Intro to Artificial Intelligence, COMP 446 3D Game Design/Development, COMP 447 Networked Game Design and Development, COMP 475 Advanced Security, DSCI 431 Intro to Big Data , DSCI 450 Applied Modeling and Visualization, or ROBO 302 Mobile Robotics.

_____	3	_____ _____
_____	3	_____ _____
_____	3	_____ _____
_____	3	_____ _____
_____	3	_____ _____

MATH / SCIENCE CORE REQUIREMENTS---**24-27 HOURS**

MATH 161	Calculus I	4	_____	_____
MATH 162	Calculus II	4	_____	_____
MATH 213	Discrete Mathematics for Comp. Science	4	_____	_____
MATH 214	Applied Probability and Linear Algebra	4	_____	_____
OR				
MATH 222	Linear Algebra **AND**	4	_____	_____
STAT 331	Theory of Statistics I	3	_____	_____

Choose eight credits from PHYS 101; PHYS 102; CHEM 105 or both CHEM 111 and 113; CHEM 112 and 114; BIOL 101; or BIOL 102.
Note: Completing both CHEM 105 and CHEM 111/113 will not fulfill this requirement.

_____	4	_____ _____
_____	4	_____ _____

SAMPLE FOUR-YEAR PLAN for the
BACHELOR OF SCIENCE IN
COMPUTER SCIENCE

Freshman Year

Fall	Credits	Spring	Credits
COMP 141 Computer Programming I	3	COMP 220 Computer Programming II	3
COMP 155 Introduction to Computer Science	3	MATH 162 Calculus II	4
MATH 161 Calculus I	4	Science Elective	4
Science Elective	4	WRIT 101 Foundations of Academic Discourse	3
HUMA 102 Civ and the Biblical Revelation	3	PHYE 100 Healthful Living	1
	17		15

Sophomore Year

Fall	Credits	Spring	Credits
COMP 222 Introduction to Data Structures & Algorithms	3	COMP 205 Ethics, Faith, and the Conscious Mind	3
COMP 244 Database Management	3	COMP 230 Advanced Programming Parallel Computing	3
MATH 213 Discrete Mathematics for Comp. Science	4	COMP 342 Data Communication & Networking	3
HUMA 200 Western Civilization	3	MATH 214 Applied Probability & Linear Algebra	4
Foundations of Social Science Course	3	HUMA 202 Civilization and Literature	3
General Electives	1		16
	17		

Junior Year

Fall	Credits	Spring	Credits
COMP 325 Computer Architecture & Organization	3	COMP 314 Automata Theory	3
COMP 422 Theory of Algorithms	3	COMP 340 Operating Systems	3
Computer Science Elective	3	COMP 350 Software Engineering	3
Computer Science Elective	3	Computer Science Elective	3
HUMA 301 Civilization and the Arts	3	General Electives	4
General Electives	2		16
	17		

Senior Year

Fall	Credits	Spring	Credits
COMP 448 Computer Security	3	COMP 424 Parallel and Distributed Computing	3
COMP 451 Senior Project I	2	COMP 452 Senior Project II	3
Computer Science Elective	3	Computer Science Elective	3
HUMA 303 Christianity and Civilization	3	General Electives	6
General Electives	4		15
	15		

*Note: Students must work with their advisor during their sophomore year to create a plan for their computer science electives, since some electives are only offered in alternate years and require certain prerequisites.