

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 Computer Science Entering in 2020

(REVISED 03-01-2020)

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

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

General Education + Elective Requirements-----36-39 HOURS

GENERAL EDUCATION REQUIREMENTS-----22 HOURS

HUMANITIES CORE-----15 HOURS

	Cr.	Sem.	Grade
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)-----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	_____	_____
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GENERAL ELECTIVES-----14-17 HOURS

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

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

MQPA Courses-----COMP; MATH 213

Major Requirements-----89-92 HOURS

COMPUTER SCIENCE CORE REQUIREMENTS-----27 HOURS

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 233 Parallel Computing	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 Introduction to Algorithms	3	_____	_____
COMP 443 Programming Languages	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 344 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	_____	_____
MATH 331 Theory of Statistics I	3	_____	_____

Choose two of the following (eight credits): PHYS 101, 102, CHEM 105, 111 and 113, 112 and 114, BIOL 101, or 102.

_____	4	_____	_____
_____	4	_____	_____

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

Freshman Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
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.....	<u>1</u>
	17		15

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
COMP 222 Introduction to Data Structures & Algorithms.....	3	COMP 205 Ethics, Faith, and the Conscious Mind.....	3
COMP 244 Database Management.....	3	COMP 233 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.....	<u>3</u>	HUMA 202 Civilization and Literature.....	<u>3</u>
General Electives.....	1		16
	17		

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
COMP 325 Computer Architecture & Organization.....	3	COMP 314 Automata Theory.....	3
COMP 422 Introduction to 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.....	<u>3</u>	General Electives.....	<u>3</u>
General Electives.....	2	General Electives.....	1
	17		16

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
COMP 448 Computer Security.....	3	COMP 443 Programming Languages.....	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.....	3
General Electives.....	3	General Electives.....	<u>3</u>
General Electives.....	<u>1</u>		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.