

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 Data Science Entering in 2024

(REVISED 03-13-2024)

(WI)=Writing Intensive, (SI)=Speaking Intensive, (IL)=Information Literacy courses.

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

TOTAL HOURS REQUIRED FOR THIS DEGREE----- 128 HOURS
General Education + Elective Requirements----- 53-57 HOURS

Minimum CQPA and MQPA required for graduation-----2.00
MQPA Courses-----See Bulletin
Major Requirements-----71-75 HOURS

GENERAL EDUCATION REQUIREMENTS----- 28 HOURS

DATA SCIENCE REQUIREMENTS----- 9 HOURS

HUMANITIES CORE----- 15 HOURS

	Cr.	Sem. Taken	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	_____	_____

DSCI 201 Intro. to Data Science	3	_____	_____
DSCI 431 Introduction to Big Data	3	_____	_____
DSCI 450 Applied Modeling and Visualization (WI/SI/IL)	3	_____	_____

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

COMPUTER SCIENCE REQUIREMENTS----- 18 HOURS

WRITING REQUIREMENT----- 3 HOURS

WRIT 101 Found. of Academic Discourse (WI/IL)	3	_____	_____
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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 244 Database Management Systems	3	_____	_____
COMP 435 Intro. to Machine Learning	3	_____	_____

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)----- 2 HOURS

Choose one course from the following:

COMP 205/SSFT 205 Ethics, Faith, and the Conscious Mind	2	_____	_____
PHIL 243 Science and the Human: Inquiry, Design, & the Person			
SSFT 210 Science & Religion			
SSFT 212 Science, Faith, Technology, & Origins			

TECHNICAL ELECTIVE----- 3 HOURS

Choose 3 hours from COMP 230, 445, MNGT 210, or STAT 412.

_____	3	_____	_____
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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 Psyc.	
HIST 141 World Geography		SOCI 101 Found. 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	

MATH and STATISTICS REQUIREMENTS----- 22 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	_____	_____
STAT 132 Statistical Methods II	3	_____	_____

Choose one of STAT 131 or PSYC 201

_____	3	_____	_____
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* MATH 222 and STAT 331 may substitute for MATH 214.

QUANTITATIVE/LOGICAL REASONING----- 0 HOURS

College requirements met through major-related coursework.

NATURAL SCIENCE REQUIREMENT----- 4 HOURS

Choose four credits from PHYS 101; PHYS 102; PHYS 121; PHYS 122; CHEM 105; CHEM 111 and 113; CHEM 112 and 114; BIOL 101; BIOL 102.

_____	4	_____	_____
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NATURAL SCIENCES (with labs)----- 4 HOURS

Choose a lab science course that, together with the NATURAL SCIENCE REQUIREMENT for the major, will fulfill the College's General Education requirements. Note that some pairs of courses will not fulfill this requirement (e.g., BIOL 101 and SCIC 202). Refer to the Bulletin for details.

_____	4	_____	_____
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DOMAIN CONCENTRATION (choose one area):----- 15-19 HOURS

Behavioral and Social Sciences (complete one set of courses):

- Economics:** ECON 101, 102, 120, and six hours from 300-400 level ECON courses.
- Exercise Science:** EXER 101, six hours from 300-400 level EXER courses (excl. 305), and 6 hours of any EXER courses.
- Political Science:** POLS 104, 201, 204 or 205, and six hours from 300-400 level POLS courses.
- Psychology:** PSYC 101, six hours from 300-400 level PSYC courses, and 6 hours of additional PSYC courses (excl. 201).
- Social Work:** SOCW 101, 264, 342, 382, and three hours from SOCW 300-400 level courses.
- Sociology:** SOCI 101, 377, 473, and six hours from 300-400 level SOCI courses.

PHYSICAL EDUCATION----- 1 HOUR

PHYE 101 Healthful Living	1	_____	_____
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Business (complete one set of courses):

- Accounting:** ACCT 201, 202, 301, 321, and 405.
- Business:** ACCT 201, 202, FNCE 202, MNGT 103, and MARK 104.
- Entrepreneurship:** ACCT 201, ENTR 101, 102, 201, FNCE 202, and two hours from 300-400 level ENTR courses.
- Finance:** ACCT 201, 202, FNCE 202, 332, 442, and three hours from 300-400 level FNCE courses.
- Management:** MNGT 103, 457, 475, and 6 hours from 300-400 level MNGT courses.
- Marketing:** STAT 131, MARK 104, 315, 411, 415, and 419.

GENERAL ELECTIVES----- 25-29 HOURS

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

Natural Science (complete one set of courses):

- Biology:** BIOL 101, 102, 233, 234, and three hours from 300-400 level BIOL courses.
- Chemistry:** CHEM 111 and 113, or 105; 112 and 114, 227, 241, and three hours from 300-400 level CHEM courses.
- Physics:** PHYS 101, 102, 135, 234, and three hours from 300-400 level PHYS courses.

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

**SUGGESTED FOUR-YEAR PLAN for the
BACHELOR OF SCIENCE IN
DATA 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	Natural Science with Lab (general educ requirement).....	4
Natural Science with Lab (major requirement).....	4	WRIT 101 Foundations of Academic Discourse.....	3
HUMA 102 Civ and the Biblical Revelation.....	<u>3</u>	PHYE 101 Healthful Living.....	<u>1</u>
	17		15

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
COMP 244 Database Management.....	3	DSCI 201 Introduction to Data Science.....	3
MATH 213 Discrete Mathematics for Comp. Science.....	4	MATH 214 Applied Probability & Linear Algebra.....	4
STAT 131 Statistical Methods II	3	STAT 132 Statistical Methods II.....	3
Domain Emphasis Course.....	3	Domain Emphasis Course.....	3
Foundations of Social Science Course.....	3	HUMA 200 Western Civilization.....	<u>3</u>
General Electives.....	<u>1</u>		16
	17		

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
COMP 222 Introduction to Data Structures & Algorithms.....	3	COMP 435 Machine Learning.....	3
Domain Emphasis Course.....	3	Domain Emphasis Course	3
HUMA 202 Civilization and Literature.....	3	HUMA 301 Civilization and the Arts.....	3
SSFT course.....	2	Technical Elective.....	3
General Electives.....	<u>6</u>	General Electives.....	<u>4</u>
	17		16

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
Domain Emphasis Course	3	DSCI 431 Intro to Big Data.....	3
HUMA 303 Christianity and Civilization.....	3	DSCI 450 Applied Modeling and Visualization.....	3
General Electives.....	<u>9</u>	General Electives.....	<u>9</u>
	15		15

*Note: Students must work with their advisor during their freshman year to create a plan for their domain emphasis.