

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.

Name: _____

ID# _____

Year of Anticipated Graduation: _____

B.S. in Data Science Entering in 2023

(REVISED 03-28-2023)

Date: _____

Advisor: _____

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

General Education + Elective Requirements----- 53-57 HOURS

GENERAL EDUCATION REQUIREMENTS----- 28 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		

*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)----- 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 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	

3

QUANTITATIVE/LOGICAL REASONING----- 0 HOURS

College requirements met through major-related coursework.

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

PHYSICAL EDUCATION----- 1 HOUR

PHYE 101	Healthful Living	1		
----------	------------------	---	--	--

GENERAL ELECTIVES----- 25-29 HOURS

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

MQPA Courses-----See Bulletin

Major Requirements-----71-75 HOURS

DATA SCIENCE REQUIREMENTS----- 9 HOURS

DSCI 201	Intro. to Data Science	3		
DSCI 431	Introduction to Big Data	3		
DSCI 450	Applied Modeling and Visualization	3		

COMPUTER SCIENCE REQUIREMENTS----- 18 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 244	Database Management Systems	3		
COMP 435	Intro. to Machine Learning	3		

TECHNICAL ELECTIVE----- 3 HOURS

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

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

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

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

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.

Business (complete one set of courses):

Accounting : ACCT 201, 202, 301, 321, and 407.

Business : ACCT 201, 202, FNCE 301, MNGT 103, and MARK 104.

Entrepreneurship : ACCT 201, ENTR 101, 102, 201, FNCE 301, and two hours from 300-400 level ENTR courses.

Finance : ACCT 201, 202, FNCE 301, 332, 440, 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.

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.