

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 2020

(REVISED 03-01-2020)

(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----- 57-61 HOURS

GENERAL EDUCATION REQUIREMENTS----- 32 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	_____	_____
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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)----- 8 HOURS

Refer to the *Bulletin* - General Education section - for requirements.

	4	_____	_____
	4	_____	_____

PHYSICAL EDUCATION----- 1 HOUR

PHYE 101 Healthful Living	1	_____	_____
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GENERAL ELECTIVES----- 25-29 HOURS

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

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

MQPA Courses-----See bulletin

Major Requirements-----67-71 HOURS

DATA SCIENCE REQUIREMENTS----- 12 HOURS

DSCI 144 Intro. to Data Science	3	_____	_____
DSCI 215 Statistical Computing	3	_____	_____
DSCI 344 Intro. to Big Data	3	_____	_____
DSCI 450 Applied Modeling and Visualization	3	_____	_____

COMPUTER SCIENCE REQUIREMENTS----- 15 HOURS

COMP 141 Computer Programming I	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 233, 445, MNGT 212, 310, or 314.

	3	_____	_____
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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	_____	_____
MNGT 202 Advanced Business Statistics	3	_____	_____
Choose one of MNGT 201, MATH 201, or PSYC 201	3	_____	_____

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

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

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

Applied Sociology: SOCI 101, 407, 377 or 378, and six hours from 300-400 level SOCI 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 additional 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 (excluding 201).

Social Work: SOCW 101, 264, 342, 382, and three hours from SOCW 300-400 level courses.

Business (complete one set of courses):

Accounting: ACCT 201, 202, 301, 321, and 405.

Business: ACCT 201, 202, FNCE 301, MNGT 203, and MARK 204.

Entrepreneurship: ACCT 201, ENTR 101, 102, 301, 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 203, 457, 475, and 6 hours from 300-400 level MNGT courses.

Marketing: MNGT 201, MARK 204, 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
MATH 161 Calculus I.....	4	MATH 162 Calculus II.....	4
Natural Science with Lab.....	4	Natural Science with Lab.....	4
HUMA 102 Civ and the Biblical Revelation.....	3	WRIT 101 Foundations of Academic Discourse.....	3
Foundations of Social Science Course.....	<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>
DSCI 144 Introduction to Data Science.....	3	DSCI 215 Statistical Computing.....	3
COMP 244 Database Management.....	3	HUMA 200 Western Civilization.....	3
MATH 213 Discrete Mathematics for Comp. Science.....	4	MATH 214 Applied Probability & Linear Algebra.....	4
MNGT 201 Business Statistics.....	3	MNGT 202 Advanced Business Statistics.....	3
Domain Emphasis Course.....	3	Domain Emphasis Course.....	<u>3</u>
General Electives.....	<u>1</u>		
	17		16

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
COMP 222 Introduction to Data Structures & Algorithms.....	3	DSCI 344 Big Data or 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.....	3	General Electives.....	3
General Electives.....	<u>3</u>	General Electives.....	<u>1</u>
	17		16

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
Domain Emphasis Course	3	DSCI 344 Big Data or COMP 435 Machine Learning.....	3
HUMA 303 Christianity and Civilization.....	3	DSCI 450 Applied Modeling and Visualization.....	3
General Electives.....	3	General Electives.....	3
General Electives.....	3	General Electives.....	3
General Electives.....	<u>3</u>	General Electives.....	<u>3</u>
	15		15

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