# 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 Data Science
## Entering in 2025
(REVISED 02-21-2025)

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---------------------------------------------------------------------------See Bulletin |
| General Education + Elective Requirements------------------------ 53-57 HOURS | Major Requirements-----------------------------------------------------------------71-75 HOURS |

### GENERAL EDUCATION REQUIREMENTS------------------------------ 26 HOURS

| | | Cr. | Sem. Taken | Grade |
|---|---|---|---|---|
| **HUMANITIES CORE**------------------------------------------------- 18 HOURS | | | | |
| HUMA 100 | The Humanities: Christian Wisdom | 1 | | |
| HUMA 200 | Western Civilization | 3 | | |
| HUMA 202 | Civilization and Literature | 3 | | |
| HUMA 204 | Civilization and the Arts | 3 | | |
| HUMA 261 | Scripture & Theology for the Chr. Life I | 3 | | |
| HUMA 271 | Scripture & Theology for the Chr. Life II | 3 | | |
| HUMA 300 | Gospel & the Good Life: Christian Ethics | 2 | | |

**WRITING REQUIREMENT**----------------------------------------------- 3 HOURS

| | | | | |
|---|---|---|---|---|
| WRIT 101 | Found. of Academic Discourse (WI/IL) | 3 | | |

**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 204 | Historical & Phil. Found. of Education | SOCW 101 | Foundations of Social Work |
| POLS 101 | Foundations of Political Science | SOCI 101 | Foundations of Sociology |
| | | SOCI 103 | Found. of Cultural Anthr. |

**NATURAL SCIENCE (with lab)/ QUANTITATIVE/LOGICAL REASONING**----------- 0 HOURS

| | | |
|---|---|---|
| (1) Natural Science with lab | 4 | (Met through major) |
| (2) Quantitative/Logical Reasoning | 3-4 | (Met through major) |
| (3) Third course in Natural Science, Quantitative or Logical Reasoning | 3-4 | (Met through major) |

**STUDIES IN SCIENCE, FAITH, & TECHNOLOGY**---------------------------------- 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   _____  _____

**GENERAL ELECTIVES**---------------------------------------------------- 27-31 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 (WI/SI/IL) | 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 hrs. of 300-400 level PSYC courses, and 6 hrs. of add'l PSYC courses (excl. PSYC 201) or EDUC 102

*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 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.

**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

| 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 | General Electives | 3 |
| Natural Science with Lab (major requirement) | 4 | HUMA Course | 3 |
| HUMA 100 The Humanities: Christian Wisdom | 1 | Writing Requirement | 3 |
| | 15 | | 16 |

## Sophomore Year

| Fall | Credits | Spring | Credits |
|---|---|---|---|
| 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 I | 3 | STAT 132 Statistical Methods II | 3 |
| Concentration Course | 3 | Concentration Course | 3 |
| Foundations of Social Science Course | 3 | HUMA Course | 3 |
| | 16 | | 16 |

## Junior Year

| Fall | Credits | Spring | Credits |
|---|---|---|---|
| COMP 222 Introduction to Data Structures & Algorithms | 3 | COMP 435 Machine Learning | 3 |
| Concentration Course | 3 | Concentration Course | 3 |
| HUMA Course | 3 | HUMA Course | 3 |
| SSFT course | 2 | Technical Elective | 3 |
| General Electives | 6 | General Electives | 4 |
| | 17 | | 16 |

## Senior Year

| Fall | Credits | Spring | Credits |
|---|---|---|---|
| Concentration Course | 3 | DSCI 431 Intro to Big Data | 3 |
| HUMA Course | 3 | DSCI 450 Applied Modeling and Visualization | 3 |
| General Electives | 10 | HUMA 300 Gospel and the Good Life: Christian Ethics | 2 |
| | 16 | General Electives | 8 |
| | | | 16 |

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