

# 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 Biochemistry with Concentration in Chemical Synthesis 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-----46 HOURS

GENERAL EDUCATION REQUIREMENTS-----24 HOURS

|  | Cr. | Sem. Taken | Grade |
|--|-----|------------|-------|
| <b>HUMANITIES CORE-----15 HOURS</b>            |     |            |       |
| 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 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 | _____ | _____ |
|---------------------------|---|-------|-------|

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

MQPA Courses-----CHEM, BIOL

Major Requirements-----82 HOURS

BIOCHEMISTRY CORE REQUIREMENTS-----55 HOURS

|   | Cr. | Sem. Taken | Grade |
|---|-----|------------|-------|
| CHEM 111 General Chemistry I                      | 3   | _____      | _____ |
| CHEM 113 General Chemistry I Lab                  | 1   | _____      | _____ |
| CHEM 112 General Chemistry II                     | 3   | _____      | _____ |
| CHEM 114 General Chemistry II Lab                 | 1   | _____      | _____ |
| CHEM 227 Analytical Chemistry                     | 4   | _____      | _____ |
| CHEM 231 Descriptive Inorganic/Bioinorganic Chem. | 2   | _____      | _____ |
| CHEM 235 Chemistry in Context (IL)                | 1   | _____      | _____ |
| CHEM 241 Organic Chemistry I                      | 4   | _____      | _____ |
| CHEM 242 Organic Chemistry II                     | 4   | _____      | _____ |
| CHEM 342 Physical Chemistry of Biological Systems | 4   | _____      | _____ |
| CHEM 351 Biochemistry I                           | 4   | _____      | _____ |
| CHEM 352 Biochemistry II                          | 4   | _____      | _____ |
| CHEM 451 Biochemistry: Data & Analysis            | 3   | _____      | _____ |
| CHEM 487 Biochemistry Seminar (WI, SI)            | 1   | _____      | _____ |
| BIOL 101 General Biology I                        | 4   | _____      | _____ |
| BIOL 102 General Biology II                       | 4   | _____      | _____ |
| BIOL 233 Genetics                                 | 4   | _____      | _____ |
| BIOL 234 Cell Biology                             | 4   | _____      | _____ |

MAJOR RELATED REQUIREMENTS-----19 HOURS

|                      |   |       |       |
|----------------------|---|-------|-------|
| MATH 161 Calculus I  | 4 | _____ | _____ |
| MATH 162 Calculus II | 4 | _____ | _____ |

|                                       |   |       |       |
|---------------------------------------|---|-------|-------|
| PHYS 101 General Physics I <b>AND</b> | 4 | _____ | _____ |
| PHYS 102 General Physics II           |   |       |       |

**OR**

|                                       |   |       |       |
|---------------------------------------|---|-------|-------|
| PHYS 121 College Physics I <b>AND</b> | 4 | _____ | _____ |
| PHYS 122 College Physics II           |   |       |       |

|                              |   |       |       |
|------------------------------|---|-------|-------|
| PSYC 201 Statistical Methods | 3 | _____ | _____ |
|------------------------------|---|-------|-------|

CONCENTRATION REQUIREMENTS-----8 HOURS

|  |   |       |       |
|--|---|-------|-------|
| CHEM 422 Inorganic Synthesis Laboratory          | 2 | _____ | _____ |
| CHEM 431 Adv. Inorganic/Organometallic Chemistry | 2 | _____ | _____ |
| CHEM 453 Adv. Molecular Spectroscopy             | 2 | _____ | _____ |
| CHEM 458 Adv. Synthesis Laboratory               | 2 | _____ | _____ |

GENERAL ELECTIVES-----22 HOURS

\_\_\_\_\_

\_\_\_\_\_

SAMPLE FOUR-YEAR PLAN for the  
BACHELOR OF SCIENCE IN  
BIOCHEMISTRY with a CHEMICAL SYNTHESIS CONCENTRATION

**Freshman Year**

| <u>Fall</u>                                     | <u>Credits</u> | <u>Spring</u>                                 | <u>Credits</u> |
|---|----------------|---|----------------|
| CHEM 111 General Chemistry I.....               | 3              | CHEM 112 General Chemistry II.....            | 3              |
| CHEM 113 General Chemistry I Lab.....           | 1              | CHEM 114 General Chemistry II Lab.....        | 1              |
| BIOL 101 General Biology I.....                 | 4              | BIOL 102 General Biology II.....              | 4              |
| MATH 161 Calculus I.....                        | 4              | MATH 162 Calculus II.....                     | 4              |
| WRIT 101 Foundations of Academic Discourse..... | 3              | HUMA 102 Civ and the Biblical Revelation..... | 3              |
| General Elective.....                           | <u>1</u>       | PHYE 100 Healthful Living.....                | <u>1</u>       |
|   | 16             |   | 16             |

**Sophomore Year**

| <u>Fall</u>                        | <u>Credits</u> | <u>Spring</u>                                      | <u>Credits</u> |
|------------------------------------|----------------|--|----------------|
| CHEM 235 Chemistry in Context..... | 1              | CHEM 231 Descriptive Inorg/Bioinorg Chemistry..... | 2              |
| CHEM 241 Organic Chemistry I.....  | 4              | CHEM 242 Organic Chemistry II.....                 | 4              |
| BIOL 233 Genetics.....             | 4              | BIOL 234 Cell Biology.....                         | 4              |
| HUMA 200 Western Civilization..... | 3              | HUMA 202 Civilization and Literature.....          | 3              |
| PSYC 201 Statistical Methods.....  | <u>3</u>       | Foundations of Social Science Course.....          | <u>3</u>       |
|                                    | 15             |  | 16             |

**Junior Year**

| <u>Fall</u>                        | <u>Credits</u> | <u>Spring</u>  | <u>Credits</u> |
|------------------------------------|----------------|--|----------------|
| CHEM 227 Analytical Chemistry..... | 4              | CHEM 342 Physical Chemistry of Biological Systems..... | 4              |
| CHEM 351 Biochemistry I.....       | 4              | CHEM 352 Biochemistry II.....                          | 4              |
| PHYS 121 College Physics I.....    | 4              | PHYS 122 College Physics II.....                       | 4              |
| SSFT Course.....                   | 2              | HUMA 303 Christianity and Civilization.....            | <u>3</u>       |
| General Elective.....              | <u>3</u>       |  | 15             |
|                                    | 17             |  |                |

**Senior Year**

| <u>Fall</u>   | <u>Credits</u> | <u>Spring</u>                             | <u>Credits</u> |
|---|----------------|---|----------------|
| CHEM 451 Biochemistry: Data & Analysis.....           | 3              | CHEM 487 Biochemistry Seminar.....        | 1              |
| HUMA 301 Civilization and the Arts.....               | 3              | CHEM 453 Adv. Molecular Spectroscopy..... | 2              |
| CHEM 422 Inorganic Synthesis Laboratory.....          | 2              | CHEM 458 Adv. Synthesis Laboratory.....   | 2              |
| CHEM 431 Adv. Inorganic/Organometallic Chemistry..... | 2              | General Electives.....                    | <u>11</u>      |
| General Electives.....                                | <u>7</u>       |   | 16             |
|   | 17             |   |                |

The schedule above satisfies the 128 required credit hours for graduation.

There is a great deal of flexibility in the Junior and Senior years.

Students should be aware that some electives are only available in specific semesters.