

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 Molecular Biology Entering in 2017

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

(REVISED 05-08-17)

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

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

General Education + Elective Requirements----- 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 social science course from the following:

| | | | |
|---|---|-------|-------|
| ECON 120 Foundations of Economics | | | |
| HIST 120 Foundations of History | | | |
| HIST 204 Hist/Phil Foundations of Education | | | |
| POLS 101 Foundations of Political Science | | | |
| PSYC 101 Foundations of Psychology | | | |
| PSYC 200 Cross-Cultural Psychology | | | |
| SOCI 101 Foundations of Sociology | | | |
| SOCI 103 Foundations of Cultural Anthropology | | | |
| SOCW 101 Foundations of Social Work | | | |
| | 3 | _____ | _____ |

QUANTITATIVE/LOGICAL REASONING----- 3 HOURS

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

| | | | |
|--|---|-------|-------|
| | 3 | _____ | _____ |
|--|---|-------|-------|

NATURAL SCIENCES (with labs)----- 0 HOURS

College requirements met through major-related coursework.

PHYSICAL EDUCATION----- 2 HOURS

| | | | |
|------------------------------|---|-------|-------|
| PHYE 101 (men) / 111 (women) | 1 | _____ | _____ |
| PHYE 102 (men) / 112 (women) | 1 | _____ | _____ |

GENERAL ELECTIVES----- 29 HOURS

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

MQPA Courses-----BIOL

Major Requirements-----71 HOURS

BIOLOGY CORE REQUIREMENTS----- 17 HOURS

| | Cr. | Sem. Taken | Grade |
|--|-----|------------|-------|
| BIOL 101 General Biology I | 4 | _____ | _____ |
| BIOL 102 General Biology II | 4 | _____ | _____ |
| BIOL 233 Genetics | 4 | _____ | _____ |
| BIOL 234 Cell Biology | 4 | _____ | _____ |
| BIOL 488 Seminar in Biology (WI, SI, IL) | 1 | _____ | _____ |

MOLECULAR GROUP 1----- 12 HOURS

| | | | |
|----------------------------------|---|-------|-------|
| BIOL 301 Advanced Genetics * | 4 | _____ | _____ |
| BIOL 302 Developmental Biology * | 4 | _____ | _____ |
| BIOL 407 Microbiology | 4 | _____ | _____ |

MOLECULAR GROUP 2: Complete one of the following courses----- 3 HOURS

| | | | |
|---------------------------------|---|-------|-------|
| BIOL 314 Immunology | 3 | _____ | _____ |
| BIOL 322 The Biology of Cancer* | 3 | _____ | _____ |
| BIOL 325 Virology * | 3 | _____ | _____ |

BIOLOGY ELECTIVES----- 11 HOURS

Complete 11 hours, choosing from the upper-division, seminar, research, or internship options listed below.

| | | | |
|---|---|-------|-------|
| BIOL 305 Plant Taxonomy | 4 | _____ | _____ |
| BIOL 310 Zoonotic Disease and Public Health | 4 | _____ | _____ |
| BIOL 313 Histology * | 3 | _____ | _____ |
| BIOL 320 Conservation & Wildlife Biology | 4 | _____ | _____ |
| BIOL 323 Invertebrate Zoology * | 3 | _____ | _____ |
| BIOL 326 Evolutionary Biology | 3 | _____ | _____ |
| BIOL 331 Ecology | 4 | _____ | _____ |
| BIOL 341 Human/Mammalian Anatomy | 4 | _____ | _____ |
| BIOL 346 Human/Mammalian Physiology | 4 | _____ | _____ |
| BIOL 403 Basis of Wildlife Behavior * | 3 | _____ | _____ |
| BIOL 409 Entomology * | 4 | _____ | _____ |
| BIOL 421 Aquatic & Fishery Biology * | 3 | _____ | _____ |

*Offered alternate years. Schedule accordingly.

RESEARCH (minimum 2 hour commitment), INDEPENDENT STUDY, INTERNSHIP

| | | | |
|---------------------------------------|-----|-------|-------|
| BIOL 260/360/460 Independent Study | 1-3 | _____ | _____ |
| BIOL 270/370/470 Independent Research | 1 | _____ | _____ |
| BIOL 480 Internship in Biology | 1-6 | _____ | _____ |
| BIOL 499 Honors Biology Research | 1-2 | _____ | _____ |

SEMINARS

| | | | |
|--|---|-------|-------|
| BIOL 208 Intro to Environmental Education | 2 | _____ | _____ |
| BIOL 372 Contemporary Topics in Biology | 1 | _____ | _____ |
| BIOL 484 Issues in Environmental Education | 2 | _____ | _____ |

MAJOR-RELATED REQUIREMENTS----- 28 HOURS

| | | | |
|-------------------------------|---|-------|-------|
| CHEM 101 General Chemistry I | 4 | _____ | _____ |
| CHEM 102 General Chemistry II | 4 | _____ | _____ |
| CHEM 241 Organic Chemistry I | 4 | _____ | _____ |
| CHEM 242 Organic Chemistry II | 4 | _____ | _____ |
| CHEM 351 Biochemistry I | 4 | _____ | _____ |
| CHEM 352 Biochemistry II | 4 | _____ | _____ |
| MATH 161 Calculus I | 4 | _____ | _____ |

**SUGGESTED FOUR-YEAR PLAN for the
BACHELOR OF SCIENCE IN
MOLECULAR BIOLOGY**

** Please note that there is considerable flexibility in semesters 5-8 **

Freshman Year

| <u>Fall</u> | <u>Credits</u> | <u>Spring</u> | <u>Credits</u> |
|---|----------------|---|----------------|
| BIOL 101 General Biology I..... | 4 | BIOL 102 General Biology II..... | 4 |
| CHEM 101 General Chemistry I..... | 4 | CHEM 102 General Chemistry II..... | 4 |
| WRIT 101 Foundations of Academic Discourse..... | 3 | HUMA 102 Civ and the Biblical Revelation..... | 3 |
| Physical Education 101 (men)/111 (women)..... | 1 | MATH 161 Calculus I..... | 4 |
| General Electives*..... | <u>4</u> | Physical Education 102 (men)/112 (women)..... | <u>1</u> |
| | 16 | | 16 |

* MATH 111 Pre-Calculus may be appropriate for those wishing to prepare for MATH 161 Calculus I in the spring semester.

Sophomore Year

| <u>Fall</u> | <u>Credits</u> | <u>Spring</u> | <u>Credits</u> |
|------------------------------------|----------------|--|----------------|
| BIOL 233 Genetics..... | 4 | BIOL 234 Cell Biology..... | 4 |
| CHEM 241 Organic Chemistry I..... | 4 | CHEM 242 Organic Chemistry II..... | 4 |
| HUMA 200 Western Civilization..... | 3 | HUMA 202 Civilization and Literature..... | 3 |
| SSFT Course..... | 2 | Quantitative/Logical Reasoning course (e.g. PSYC 201)..... | <u>3</u> |
| Foundations of Social Science..... | <u>3</u> | | 14 |
| | 16 | | |

Junior Year

| <u>Fall</u> | <u>Credits</u> | <u>Spring</u> | <u>Credits</u> |
|---|----------------|---|----------------|
| BIOL 301 Advanced Genetics..... | 4 | BIOL 302 Developmental Biology..... | 4 |
| Molecular Group 2 Elective or Biology Elective..... | 3 | Biology Elective or Molecular Group 2 Elective..... | 3 |
| CHEM 351 Biochemistry I..... | 4 | CHEM 352 Biochemistry II..... | 4 |
| HUMA 301 Civilization and the Arts..... | 3 | HUMA 303 Christianity and Civilization..... | 3 |
| General Electives..... | <u>2</u> | General Electives..... | <u>3</u> |
| | 16 | | 17 |

Senior Year

| <u>Fall</u> | <u>Credits</u> | <u>Spring</u> | <u>Credits</u> |
|----------------------------|----------------|-------------------------------|----------------|
| BIOL 407 Microbiology..... | 4 | BIOL 488 Biology Seminar..... | 1 |
| Biology Elective..... | 3 | Biology Elective..... | 3 |
| Biology Elective..... | 1 | Biology Elective..... | 1 |
| General Electives..... | <u>9</u> | General Electives..... | <u>11</u> |
| | 17 | | 16 |

Consult with your advisor regarding specific courses and course load per semester.

A total of at least 128 credits of coursework are required for graduation.