

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 Physics and Secondary Education
Certification
Entering in 2022**
(REVISED 05-04-2022)

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

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

| | |
|--|----------------------|
| TOTAL HOURS REQUIRED FOR THIS DEGREE ----- | 140-142 HOURS |
| General Education + Elective Requirements ----- | 24 HOURS |

| | |
|--|-----------------------------|
| Minimum CQPA and MQPA required for graduation ----- | 2.00 |
| Minimum QPAs required for certification ----- | CQPA 3.00; MQPA 2.75 |
| MQPA Courses ----- | ASTR; PHYS |
| Major Requirements ----- | 116-118 HOURS |

GENERAL EDUCATION REQUIREMENTS----- 24 HOURS

| | Cr. | Sem. Taken | Grade |
|--------------------------------------|---------------------------------------|------------|-------|
| HUMANITIES CORE----- 15 HOURS | | | |
| 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 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 | _____ |
|----------|------------------|---|-------|

GENERAL ELECTIVES----- 0 HOURS

TECHNICAL ELECTIVES----- 6-8 HOURS

Choose six to eight hours from ASTR 310; any BIOL courses; CHEM 112 and 114; CHEM 345; COMP 220, 222, 244, 246, 252, 340, 342, 350; any Engineering course (except ENGR 156, 210, 402, or ELEE 201, 251); any MATH 300- or 400-level courses; PHYS 486; or any additional course approved by the Dept. Chair. A maximum of three hours from PHYS 270, 370, and 470 may also count toward this requirement.

PHYSICS CORE REQUIREMENTS----- 32 HOURS

| | Cr. | Sem. Taken | Grade |
|----------|--|------------|-------|
| PHYS 101 | General Physics I - Engineering | 4 | _____ |
| PHYS 102 | General Physics II - Engineering | 4 | _____ |
| PHYS 135 | Horizons in Physics | 1 | _____ |
| PHYS 210 | Electronics | 4 | _____ |
| PHYS 234 | Modern Physics | 3 | _____ |
| PHYS 288 | Intermediate Laboratory (WI) | 2 | _____ |
| PHYS 303 | Mechanics I | 3 | _____ |
| PHYS 305 | Electricity and Magnetism | 3 | _____ |
| PHYS 321 | Radiation Laboratory (SI) (IL) | 2 | _____ |
| PHYS 431 | Quantum Mechanics | 3 | _____ |
| ASTR 207 | Introduction to Stars, Galaxies, & Cosmology | 3 | _____ |

PHYSICS ELECTIVES----- 12 HOURS

Choose 4 of the following 7 courses:

| | | | |
|----------|---|---|-------|
| PHYS 304 | Mechanics II, PHYS 310 Optics, PHYS 340 Thermodynamics & Statistical Mechanics, PHYS 401 Radiation & Health Physics or PHYS 402 Medical Imaging & Diagnostic Physics, PHYS 421 Advanced Topics, or PHYS 442 Computational Methods in Physics. | | |
| | | 3 | _____ |
| | | 3 | _____ |
| | | 3 | _____ |
| | | 3 | _____ |

TECHNICAL CORE REQUIREMENTS (Science, Math, etc.)----- 26 HOURS

| | | | |
|----------|-------------------------------------|---|-------|
| CHEM 105 | Chemistry for Engineers | 4 | _____ |
| COMP 141 | Computer Programming I | 3 | _____ |
| MATH 161 | Calculus I | 4 | _____ |
| MATH 162 | Calculus II | 4 | _____ |
| MATH 261 | Calculus III | 4 | _____ |
| MATH 262 | Differential Equations | 3 | _____ |
| MATH 263 | Numerical Differential Equations | 1 | _____ |
| PHYS 242 | Introduction to Theoretical Physics | 3 | _____ |

PROFESSIONAL EDUCATION REQUIREMENTS----- 40 HOURS

| | | | |
|-----------|---|----|-------|
| EDUC 202^ | Introduction to the Teaching Profession | 3 | _____ |
| EDUC 203 | Culturally Relevant Pedagogy | 3 | _____ |
| EDUC 204 | Technologies of Instruction | 3 | _____ |
| EDUC 215 | Secondary Curriculum & Instruction I | 2 | _____ |
| EDUC 317 | Secondary Math/Scic Curriculum & Instruc II | 2 | _____ |
| EDUC 371 | Field Experience | 1 | _____ |
| EDUC 375 | Secondary Field Experience (3rd Level) | 1 | _____ |
| EDUC 450 | Student Teaching | 16 | _____ |
| EDUC 488 | Issues in Education (WI/SI/IL) | 3 | _____ |
| PSYC 102 | Educational Psychology | 3 | _____ |
| SEDU 102 | Exceptional Learners for 7-12 & K-12 | 2 | _____ |
| SEDU 103 | Methods of Sec. Spec. Educ Implementation | 2 | _____ |

^ Students with EDUC 205 credit must take EDUC 206 to complete the EDUC 202 requirement.

**SAMPLE FOUR-YEAR PLAN for the
BACHELOR OF SCIENCE IN
PHYSICS and SECONDARY EDUCATION CERTIFICATION**

Freshman Year

| <u>Fall</u> | <u>Credits</u> | <u>Spring</u> | <u>Credits</u> |
|---|----------------|---|----------------|
| PHYS 101 General Physics I..... | 4 | PHYS 102 General Physics II..... | 4 |
| PHYS 135 Horizons in Physics..... | 1 | COMP 141 Computer Programming I..... | 3 |
| MATH 161 Calculus I..... | 4 | MATH 162 Calculus II..... | 4 |
| PSYC 102 Educational Psychology..... | 3 | SSFT Course..... | 2 |
| HUMA 102 Civ and the Biblical Revelation..... | 3 | WRIT 101 Foundations of Academic Discourse..... | <u>3</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 105 Chemistry for Engineers..... | 4 | PHYS 234 Modern Physics..... | 3 |
| EDUC 202 Introduction to the Teaching Profession..... | 3 | PHYS 242 Introduction to Theoretical Physics..... | 3 |
| EDUC 204 Technologies of Instruction..... | 3 | PHYS 288 Intermediate Laboratory..... | 2 |
| MATH 261 Calculus III..... | 4 | ASTR 207 Introduction to Stars, Galaxies, & Cosmology..... | 3 |
| HUMA 200 Western Civilization..... | <u>3</u> | HUMA 301 Civilization and the Arts..... | 3 |
| | 17 | EDUC 215 Secondary Curriculum & Instruction..... | 2 |
| | | EDUC 371 Field Experience (Secondary)..... | <u>1</u> |
| | | | 17 |

Intersession Course

EDUC 203 Culturally Relevant Pedagogy.....3

Junior Year

| <u>Fall</u> | <u>Credits</u> | <u>Spring</u> | <u>Credits</u> |
|--|----------------|--|----------------|
| PHYS 210 Electronics..... | 4 | PHYS 431 Quantum Mechanics..... | 3 |
| PHYS 303 Mechanics I..... | 3 | Physics Electives..... | 6 |
| PHYS 305 Electricity and Magnetism..... | 3 | Technical Elective..... | 3 |
| Technical Elective..... | 3-4 | SEDU 102 Exceptional Learners for 7-12 & K-12..... | 2 |
| EDUC 317 Secondary Math/Scic Curriculum & Instructor 2 | 2 | SEDU 103 Methods of Sec. Spec. Educ. Implementation..... | 1 |
| EDUC 375 Secondary Field Experience (3rd Level)..... | <u>1</u> | Foundations of Social Science Course..... | <u>3</u> |
| | 16 | | 18 |

Intersession Course

HUMA 202 Civilization and Literature.....3

Senior Year

| <u>Fall</u> | <u>Credits</u> | <u>Spring</u> | <u>Credits</u> |
|--------------------------------|----------------|--|----------------|
| EDUC 450 Student Teaching..... | <u>16</u> | PHYS 321 Radiation Laboratory..... | 2 |
| | 16 | Physics Electives..... | 6 |
| | | MATH 262 Differential Equations..... | 3 |
| | | MATH 263 Numerical Differential Equations..... | 1 |
| | | EDUC 488 Issues in Education..... | 3 |
| | | HUMA 303 Christianity and Civilization..... | <u>3</u> |
| | | | 18 |