

BIOLOGY MAJOR

2007-2008

PLANT BIOLOGY OPTION

Student Name _____

PSU ID _____

CREDITS NOT APPLICABLE FOR GRADUATION

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TOTAL DEPARTMENTAL CREDIT REQUIREMENTS FOR GRADUATION: 124 CREDITS

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| Communication (9 cr) | |
| ENGL 15 or ENGL 30 (3) | |
| ENGL 202A,202B,202C,202D(3) | |
| CAS 100 (3) | |

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| Quantification (8 cr) | |
| &MATH 140 (4) | |
| MATH 141 (4) | |

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| General Chemistry (8 cr) | |
| &CHEM 110 (3) | |
| CHEM 111 (1) | |
| &CHEM 112 (3) | |
| CHEM 113 (1) | |

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| Biology Core Courses (16cr) | |
| & BIOL 110 (4) | |
| & BIOL 220W (4)* | |
| & BIOL 230W (4)* | |
| & BIOL 240W (4)* | |
| *These courses = 1 "W" Credit | |

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| Arts (6 cr) | |
| GA (3) | |
| GA (3) | |

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| Humanities (6 cr) | |
| GH (3) | |
| GH (3) | |

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| Social & Behavioral Sciences (6 cr) | |
| GS (3) | |
| GS (3) | |

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| Physics (8 - 12 cr) | |
| PHYS 250 (4) | |
| PHYS 251 (4) | |
| or | |
| PHYS 211 (4) | |
| PHYS 212 (4) | |
| PHYS 213 (2) | |
| PHYS 214 (2) | |

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| Organic Chemistry (8 cr) | |
| CHEM 210 (3) | |
| CHEM 212 (3) | |
| CHEM 213 (2) | |

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| Statistics (3-4 cr) | |
| STAT 200 (4), 240 (3), 250 (3), or an advanced statistics course (3) | |

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| Biochemistry & Molecular Biology (5 cr) | |
| BMB 401(2) | |
| BMB 402 (3) | |

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| Health & Physical Activity (3 cr) Courses with a GHS, GPE, or GHA label can fulfill this category | |
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- _____ *United States Cultures Requirement (3 credits US)*
- _____ *International Cultures Requirement (3 credits IL)*

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| PSU 016 (1) | |
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| 400-level Biology Courses (18 cr) | |
| BIOL 407 (3) | |
| BIOL 414 (3) | |
| BIOL 441 (3) | |
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| Select a minimum of 9 credits of 400-level Biology courses, with at least 6 credits from Group I and 3 credits from Group II | |
| Group I | Group II |
| BIOL 410 | BIOL 400 (2-3) |
| BIOL 413 | BIOL 414 |
| BIOL 427 | BIOL 419 |
| BIOL 430 | BIOL 439 |
| BIOL 443 | BIOL 444W |
| BIOL 444 | BIOL 448 |
| BIOL 446 | BIOL 450W |
| BIOL 448 | BIOL 461 |
| BIOL 499A | BIOL 496 |
| BIOTC 459 | BIOL 499A |
| HORT 407 | SC 295 |
| HORT 440W | SC 395 |
| PPATH 416 | SC 495 |
| PPATH 425 | |
| A maximum of 3 credits of Bio 496 or 4 credits of SC 295, SC 395, SC 495 may be used to fulfill the 18 credit minimum in the 400-level biology course requirement. | |

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| Supporting Courses & Related Areas Electives (15- 20 cr) to complete 124 credits | |
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& Grade of C or better is required.

1. **Disallowed credits:** The following courses **MAY NOT** be used for credit (**NOT EVEN AS ELECTIVES**) towards a degree in Biology and will **NOT** be counted towards graduation:

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| BMB 1 | MICRB – no course under 199 |
| BI SC 1, 2, 3, 4 | PH SC 1, 150, 151 |
| BIOL 11, 12 | PHYS 001 |
| CHEM 101, 103, 106, 108 | LL ED 5, 10 |
| ENGL 4, 5 | More than 6 credits of SC 295, 395, 495 |
| ESL 4, 5 | STAT 100 |
| MATH – no course under 140** | Course Duplications |
| CAS 126 | |

****Please note that in the following courses only a specified number of the credits count towards graduation:**

MATH 140A (only 4 out of 6 credits count)
CHEM 106 (only 3 out of the 5 credits count)

However, all credits earned at Penn State count in determining your grade point average (GPA).

Note also that ESACT 129 cannot be scheduled if you have already received credit for ESACT 117 or 220.

Moreover, students may take only one course for General Education credit from: HD FS 129 (GS) or SOC 030 (GS); PHIL 001 (GH) or PHIL 004 (GH); LARCH 003 (GA) or LARCH 060 (GA); SOC 001 (GS) or R SOC 011 (GS).

Any exceptions need to be petitioned in 329 Whitmore and will be evaluated by Dr. Richard Cyr on a case-by-case basis.

2. **Writing Across the Curriculum requirement** (3 credits of “W” are required). For majors in Biology, this requirement can be met by taking BIOL 220W, 230W and 240W, each carrying one credit of “W”. One other course currently offered in the Department of Biology with “W” credit is BIOL 450W. Note that other courses within the Eberly College of Science can be used to fulfill this requirement.

3. **Elective (Supporting) Courses:** Elective credit totals vary with the option. Total elective credits range between 12 to 30 credits, depending on option and course selection. Choose your electives carefully.

4. **Petition for course substitutions or waivers of requirements.** Forms are available in the Biology Undergraduate Advising Office (329 Whitmore) and on-line (<http://www.bio.psu.edu/Degrees/UgradAO> - click on the “Forms and Procedures” link).

5. **A minimum of 124 credits is required to graduate with a major in Biology.** Add up your credits **carefully** and **always** check your total credit early in the semester you plan to graduate!

6. **Check the bulletin board in 329 Whitmore for new course offerings** in the Department of Biology.

7. **Select both United States Cultures and International Culture course carefully.** You may be able to select a course which will also satisfy the general education requirements in Arts, Humanities or Social and Behavioral Sciences. For example, SOC 119 – Race and Ethnic Relations – will satisfy both GS and US requirements but will only count as 3 or 4 credits towards the 124 credits required for graduation (Soc 119 is a variable credit course).