

BIOLOGY MAJOR

ECOLOGY OPTION

Student Name _____

PSU ID _____

CREDITS NOT APPLICABLE FOR GRADUATION

--	--	--	--

TOTAL DEPARTMENTAL CREDIT REQUIREMENTS FOR GRADUATION: 124 CREDITS

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

Quantification (8 cr)	
**MATH 140 (4)	
MATH 141 (4)	

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

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

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

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

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

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

Organic Chemistry (6 - 8 cr)	
CHEM 202 (3)	
CHEM 203 (3)	
or	
CHEM 210 (3)	
CHEM 212 (3)	
CHEM 213 (2)	

Statistics (6-7cr)	
STAT 200 (4), 240 (3) or 250 (3)	
STAT 462 (3) or STAT 464 (3)	

Health and Physical Activity (3 cr)	
Courses with a GHS, GPE, or GHA label can fulfill this category	

- _____ *United States Cultures Requirement (3 credits US)*
- _____ *International Cultures Requirement (3 credits IL)*

PSU 016 (1)	
-------------	--

Select a minimum of 18 credits of 400-level biology courses, with at least 3 credits from each of the following groups (courses in Group IV – except BIOL 496, SC 295, SC 395, SC 495 – may be used to satisfy requirements in other groups)

Group I Population Community Ecology	Group II Evolutionary Biology	Group III Functional Biology	Group IV Practicum
BIOL 412	BIOL 405	BIOL 406	BIOL 400
BIOL 419	BIOL 406	BIOL 415	BIOL 407
BIOL 429	BIOL 414	BIOL 417	BIOL 414
BIOL 436	BIOL 417	BIOL 429	BIOL 417
BIOL 438	BIOL/GEOSC 420	BIOL 446	BIOL 419
BIOL 450W	BIOL/VB SC 421	BIOL 464	BIOL/VB SC 421
BIOL 463	BIOL 422	BIOL/PPEM 425	BIOL 422
BIOL 482	BIOL/PPEM 425	BIOL/PPEM 425	BIOL/PPEM 425
BIOL 499A	BIOL 427	BIOL 433	BIOL 433
	BIOL 429	BIOL 437	BIOL 437
	BIOL 432	BIOL 450W	BIOL 450W
	BIOL 433	BIOL 473	BIOL 473
	BIOL 434	BIOL 482 (4 cr only)	BIOL 482 (4 cr only)
	BIOL 436	BIOL 499A	BIOL 499A
	BIOL 439	BIOL 496	BIOL 496
	BIOL 443	BIOL 251	BIOL 251
	BIOL 446	SC 295	SC 295
	BIOL 451	SC 395	SC 395
	BIOL/ANTH 460	SC 495	SC 495
	BIOL 463		
	BIOL 464		
	BIOL/GEOSC 474		

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.

400-Level Biology Requirements (18 cr)			

Supporting Courses & Related Areas Electives (17-24 cr) to complete 124 credits			

**** Grade of C or better is required.**

Effective February 2014

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:

BMB 1	CAS 126
BI SC 1, 2, 3, 4	MICRB – No course under 199
BIOL 11, 12, 33, 55	PH SC 1, 150, 151
CHEM 101, 103, 106, 108	LL ED 5, 10
ENGL 4, 5	PHYS 1
ESL 4	More than 9 credits of SC 295, 395, 495
MATH – no course under 140**	Course Duplications

****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).

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 through an adviser in 114 Ritenour 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”. Another course currently offered in the Department of Biology with “W” credit is 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 10 to 26 credits, depending on option and course selection. Choose your electives carefully.

4. **Petition for course substitutions or waivers of requirements.** Any exceptions need to be petitioned through an adviser in the Biology Undergraduate Advising Office in 114 Ritenour (814-865-2329) and will be evaluated by Dr. Richard Cyr on a case-by-case basis.

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 the Biology Undergraduate Advising Office 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 that 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). To clarify, from the Undergraduate Advising Handbook “A student must complete 3 credits in US and 3 credits in IL. If a student takes a 3-credit course that is both US and IL, he/she must take another 3-credit course that is US, IL, or both US and IL to complete the requirement. Education abroad courses and other credit-bearing experiences such as internships that meet this requirement will be designated as US, IL, or both US and IL.”