

Student Name _____ Student Number _____

CREDITS NOT APPLICABLE FOR GRADUATION

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TOTAL DEPARTMENTAL CREDIT REQUIREMENTS FOR GRADUATION: 124 CREDITS

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

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

General Chemistry (8 cr)	
&CHEM 12 (3)	
&CHEM 13 (3)	
CHEM 14 (1)	
CHEM 15 (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 034 (3)	
CHEM 035 (3) SP only	
or	
CHEM 036 (2)	
CHEM 038 (3)	
CHEM 039 (3)	

Statistics (3-4 cr)	
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	

PSU 016 (1)	
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• _____ *INTERCULTURAL & INTERNATIONAL COMPETENCE* (3)
(Any course with a DF or GI label can fulfill this requirement)

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	Group II	Group III	Group IV
BIOL 412	BIOL 414	BIOL 406	BIOL 414
BIOL 419	BIOL 427	BIOL 415	BIOL 417
BIOL 435	BIOL 428	BIOL 417	BIOL 419
BIOL 436	BIOL 429	BIOL 446	BIOL 444
BIOL 444	BIOL 448	PPATH 425	BIOL 448
BIOL 450	BIOL 464		BIOL 450
BIOL 463	BIOL 474		BIOL 482
BIOL 482			BIOL 496
BIOL 499A			BIOL 499A
			SC 295
			SC 395
			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.			

400-Level Biology Requirements (18 cr)			

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

Suggested electives: ANTH 401, ANTH 405, ANTH 406W, ENT 457, ERM 422, FOR 455, WFS 430, FOR 410, FOR 409, GEOSC 424, GEOSC 419, HORT440W, HORT 445, METEO/GEOSC 475W, MICRB 400, PPATH 416, PPATH 405, SOILS/GEOSC 419, SOILS 412W, WFS 406, WFS 408, WFS 409, WFS 422, WFS 446, WFS 452, WFS/ERM 450, WFS 453, ENT 402, ENT 410, ENT 412, ENT 420, ENT 425

& 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:

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).