

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, B, C or D (3)	
CAS (SPCOM) 100 (3)	

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

400-Level Biology Requirements (18 cr)	
BIOL 427 (3) FA	

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)	

Organic Chemistry (6 - 8 cr)	
CHEM 034 (3)	
CHEM 035 (3) SP only	
or	
CHEM 036 (2)	
CHEM 038 (3)	
CHEM 039 (3)	

Select a minimum of 15 credits of 400-level Biology courses, with at least 3 credits from each of the following groups (each course may be used to satisfy a requirement in only one group)

Group I	Group II	Group III	Group IV	Group V
BIOL 407	AN SC 442	BIOL 406	BIOL 404	BIOL 400 (2-3 cr)
BIOL 410	BIOL 404	BIOL 412	BIOL 406	BIOL 407
BIOL413	BIOL 405	BIOL 414	BIOL 409	BIOL 414
BIOL 414	BIOL 407	BIOL 415	BIOL 411	BIOL 417
BIOL 441	BIOL 410	BIOL 417	BIOL 413	BIOL 419
BIOL 443	BIOL 411	BIOL 419	BIOL 416	BIOL 421
BIOL 444	BIOL 416	BIOL 428	BIOL 421	BIOL 437
BIOL 446	BIOL 422W	BIOL 429	BIOL 426	BIOL 439
BIOL 448	BIOL 426	BIOL 435	BIOL 430	BIOL 444
BIOL 499A	BIOL 428	BIOL 436	BIOL 432	BIOL 448
HORT 407	BIOL 430	BIOL 444	BIOL 437	BIOL 450W
HORT 440W	BIOL 432	BIOL 446	BIOL 443	BIOL 461
PPATH 416	BIOL 439	BIOL 448	BIOL 446	BIOL 471
PPATH 425	BIOL 443	BIOL 450W	BIOL 460	BIOL 473
	BIOL 448	BIOL 463	BIOL 469	BIOL 496
	BIOL 460	BIOL 464	BIOL 470	SC 295
	BIOL 499A	BIOL 474	BIOL 472	SC 395
	BMB 400	BIOL 499A	BIOL 479	SC 495
	BMB 450			PPATH 425
	HORT 407			

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.

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

Statistics (3-4 cr)	
STAT 200 (4), 240 (3), or 250 (3)	

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

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

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

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

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

PSU 016 (1)	
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Supporting Courses & Related Areas Electives (23 – 30 cr) to complete 124 credits	

& 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).