

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 (8 cr)	
CHEM 036 (2)	
CHEM 038 (3)	
CHEM 039 (3)	

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

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

Health & 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)	
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400-Level Biology Courses (17 cr)	
BIOL 472 – FA/SP	
BIOL 473 - SP	

Select a minimum of 12 credits of 400-level Biology courses, with at least 9 credits from Group I and 2-3 credits from Group II	
Group I	Group II
BIOL 404	BIOL 400 (2-3)
BIOL 406	BIOL 414
BIOL 409	BIOL 417
BIOL 411	BIOL 419
BIOL 412	BIOL 421
BIOL 413	BIOL 437
BIOL 416	BIOL 439
BIOL 421	BIOL 444
BIOL 426	BIOL 448
BIOL 430	BIOL 450W
BIOL 432	BIOL 461
BIOL 437	BIOL 471
BIOL 443	BIOL 473
BIOL 446	BIOL 496
BIOL 460	BIOL 499A
BIOL 469	SC 295
BIOL 470	SC 395
BIOL 471	SC 495
BIOL 479	
* up to 6 credits may be selected from department list	
A maximum of 3 credits of Bio 496 or 4 credits of SC 295, SC 395, SC 495 may be used to fulfill the 17 credit minimum in the 400-level biology course requirement.	

Up to 6 credits for Group I can be selected from the following Department List:

AN SC 431	FD SC 406	MICRB 435	NUTR 452
BIOE 401	MICRB 401	PSY 456	V SC 420
BMB 437	MICRB 410	NUTR 445	
BMB 476	MICRB 412	NUTR 446	

Supporting Courses & Related Areas Electives (16 - 21 cr) to complete 124 credits			

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	MICRO 106, 107
BI SC 1, 2, 3, 4	PH SC 1, 150, 151
BIOL 11, 12, 33, 55	LL ED 5, 10
CHEM 1, 6, 11	More than 6 credits of SC 295, 395, 495
CMPS 1, 100	SPCOM 4
ENGL 4, 5	STAT 100
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 17 (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).