

Bachelor of Sciences - Zoology Pre-Medical Pre-Dental Option

An undergraduate degree from Washington State University requires a minimum of 120 total semester hours. The University, College of Arts and Sciences, and School of Biological Sciences each have specific requirements for a degree; checklists for these requirements are provided on the second page of this sheet. Requirements and electives for the specific degree and option headlined above are listed below this paragraph. All official requirements for each student's specific degree are listed in the student's my.wsu.edu Academic Requirement Report. This sheet is only meant to serve as a guide.

Biology Core Requirements:

Biological Sciences Requirements:

	Credits	Grade
BIOLOGY 106 General Biology: Organismal	4	_____
BIOLOGY 107 General Biology: Cells & Genetics	4	_____
BIOLOGY 301 General Genetics	4	_____
BIOLOGY 370 [M] Ecology of Health & Disease OR		
BIOLOGY 372 [M] General Ecology	4	_____
BIOLOGY 395 Evolutionary Medicine OR		
BIOLOGY 403 Evolutionary Biology OR		
BIOLOGY 405 Prin. of Org. Evolution	3	_____

Calculus Requirement:

Math 140 Calculus for Life Scientists OR		
MATH 171 Calculus I	4	_____

Statistics Requirement:

STAT 212 Intro to Statistical Methods OR	4	_____
STAT 412 Stat Methods in Research OR	3	_____
PSYCH 311 Statistics in Psychology	4	_____

Chemistry Requirement:

CHEM 105* Principles of Chemistry I	4	_____
CHEM 106* Principles of Chemistry II	4	_____
CHEM 345 Organic Chemistry I	4	_____

Physics Requirement:

PHYS 101* & 111* General Physics I and Lab OR		
PHYS 201* & 211* Physics for Sci. & Engineers I	4	_____
PHYS 102 & 112 General Physics II and Lab OR		
PHYS 202 & 212 Physics for Sci. & Engineers II	4	_____

Pre-Medical/Pre-Dental Requirements:

Additional Chemistry Requirement:

Chem 348 Organic Chemistry II	4	_____
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Microbiology/Invertebrate Requirement:

Choose two of the following:

MBIOS 305 ** General Microbiology AND	3	_____
MBIOS 304 Micro and Molecular Biology Lab OR		
MBIOS 306 General Microbiology Lab	2-3	_____
BIOLOGY 322 [M] Invertebrate Biology	4	_____
BIOLOGY 418 Parasitology	4	_____

*Chemistry and Physics require a grade of C or better to progress to the next level course

Anatomy/Development Requirement:

Choose two of the following:

	Credits	Grade
BIOLOGY 315 Gross and Microanatomy	4	_____
BIOLOGY 321 [M] Principles of Animal Development	4	_____
BIOLOGY 324 Comparative Vertebrate Anatomy	4	_____

Biochemistry Requirement:

CHEM 370 Chemical Biology OR		
MBIOS 303 Biochemistry	3-4	_____

Physiology Requirement:

Choose one set from the following:

BIOLOGY 352 Cells AND		
BIOLOGY 353 Advanced Human Physiology	7	_____
		OR
MBIOS 401 Cell Biology AND		
BIOLOGY 353 Advanced Human Physiology	7	_____

Pre-Medical/Pre-Dental Electives (optional courses): Courses in the School of Biological Sciences that are suitable for this option can be found: <https://sbs.wsu.edu/courses-electives/> Courses in other departments at WSU may also be suitable as electives and should be chosen in consultation with your advisor.

School of Biological Sciences Requirements

- A minimum of 120 total semester hours.
- At least 40 semester hours must be 300 and 400 level coursework.
- A minimum of 19 semester hours of core BIOLOGY courses (BIOLOGY 106; 107; 301; 370 or 372; and 395 or 403 or 405).
- An additional 21 semester hours of biological sciences coursework selected in consultation with your biology advisor. The 21 semester hours must include 15 credits of 300 and 400 level courses, six of which must be BIOLOGY taken in residence at WSU. See guidelines for the many BIOLOGY options that are available to structure your course selections.
- An overall GPA of at least 2.0 must be maintained in all college and departmental requirements.
- A maximum of four credits of coursework that are graded S,F may be used toward fulfilling School requirements or program options, and no other courses taken S,F can be applied toward fulfilling School requirements or program options.
- Two BIOLOGY courses to satisfy the "Writing in the Major" [M] requirement.
- One BIOLOGY course to satisfy the "Capstone" [CAPS] requirement.

UCORE and College of Arts and Sciences Requirements

	Grade	Credits
[ROOT]	_____	(3)
[COMM]	_____	(3)
[WRTG]	_____	(3)
[WRTG]	_____	(3)
[QUAN]	_____	(3)
[SSCI]	_____	(3)
[HUM]	_____	(3)
[ARTS]	_____	(3)
[BSCI]	_____	(3)
[PSCI]	_____	(3)
[]	_____	(3)
[DIVR]	_____	(3)
[CAPS]	_____	(3)
[M]	_____	(2-4)
[M]	_____	(2-4)

Note: Three UCORE courses of 3 credits (9 credits total) may fulfill major requirements.

- _____ Foreign Language 1 yr. or 2 yrs. HS (CAS)
- _____ Upper Division 3xx-4xx (Minimum 40 credits)
- _____ Minimum Total Credits (120)
- _____ Junior Writing Portfolio

<https://writingprogram.wsu.edu/university-writing-portfolio/>