

BACHELOR OF SCIENCE – ZOOLOGY
PRE-MEDICAL/PRE-DENTAL

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.

CORE REQUIREMENTS:

Biological Sciences Requirements:

	Semester/Year	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	_____

Chemistry Requirement:

CHEM 105*	Principles of Chemistry I	4	_____
CHEM 106*	Principles of Chemistry II	4	_____
CHEM 345	Organic Chemistry I	4	_____
CHEM 370	Chemical Biology OR		
MBIOS 303	Introductory Biochemistry	3-4	_____

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		
MBIOS 306	General Microbiology Lab	2-3	_____
BIOLOGY 322 [M]	Invertebrate Biology	4	_____
BIOLOGY 418	Parasitology	4	_____

Anatomy/Development Requirement:

Choose two of the following:

		Credits	Semester/Year	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		
<u>OR</u>				
MBIOS 401	Cell Biology <u>AND</u>			
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.*

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

UCORE and College of Arts and Sciences Requirements

	Grade		Semester/Year	Credits
[ROOT]	_____	Roots of Contemporary Issues		(3)
[COMM]	_____	Communication OR		(3)
[WRTG]	_____	Written Communication		(3)
[WRTG]	_____	Written Communication		(3)
[QUAN]	_____	Quantitative Reasoning		(3)
[SSCI]	_____	Inquiry in the Social Sciences		(3)
[HUM]	_____	Inquiry in the Humanities		(3)
[ARTS]	_____	Inquiry in the Arts		(3)
[BSCI]	_____	Inquiry in the Biological Sciences		(3)
[PSCI]	_____	Inquiry in the Physical Sciences		(3)
[EQJS]	_____	Inquiry into Equity and Justice		(3)
[DIVR]	_____	Diversity		(3)
[CAPS]	_____	Integrative Biology Capstone		(3)
[M]	_____	Writing in the Major (Biology)		(2-4)
[M]	_____	Writing in the Major (Biology)		(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)
- _____ University Writing Portfolio

<https://writingprogram.wsu.edu/uwpsubmission/>

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.