


BS* BIOLOGY —

GENERAL

EMPHASIS



Biology student Chayse Jones using sterile technique to streak yeast strains onto growth plates in the Pollard Lab.



STUDENT SPOTLIGHT

“I am so thankful that Western allows undergraduates like me to get involved in research. Being able to gain practical experience in the lab as well as work with a professional scientist is a wonderful experience. The professors in the biology department are supportive mentors that are interested in helping undergrads pursue their professional goals.”

- Wyatt Heimbichner Goebel



SAMPLE CAREER PATHWAYS

- Botanist
- Ecologist
- Biology Educator
- Veterinarian
- Laboratory Technician
- Physician Assistant
- Pharmacist
- Dentist
- Medical Doctor
- Biotechnologist



FACULTY ADVISORS

- | | | |
|------------------------------------|-------------------------|----------------------------|
| <u>Alejandro Acevedo-Gutiérrez</u> | <u>David Hooper</u> | <u>Sandra Schulze</u> |
| <u>Roger Anderson</u> | <u>David Leaf</u> | <u>Dietmar Schwarz</u> |
| <u>Shawn Arellano</u> | <u>Suzanne Lee</u> | <u>José Serrano-Moreno</u> |
| <u>Marion Brodhagen</u> | <u>Benjamin Miner</u> | <u>Anu Singh-Cundy</u> |
| <u>Lina Dahlberg</u> | <u>Craig Moyer</u> | <u>Adrienne Wang</u> |
| <u>Eric DeChaine</u> | <u>Brady Olson</u> | <u>Jeffrey Young</u> |
| <u>Deborah Donovan</u> | <u>Merrill Peterson</u> | <u>Matthew Zinkgraf</u> |
| <u>Nick Galati</u> | <u>Lynn Pillitteri</u> | |
| | <u>Dan Pollard</u> | |



CURRICULUM HIGHLIGHTS

- BIOL 324
Methods in Molecular Biology
- BIOL 321
Genetics
- BIOL 325
Ecology
- BIOL 432
Evolutionary Biology
- BIOL 407
Marine Ecology
- BIOL 453
Mycology



HOT TOPICS

Are you interested in taking an interdisciplinary approach to complex science questions?

Biology is the study of living things and encompasses areas ranging from molecular biology to ecosystem ecology. This breadth is reflected in Western’s curriculum and in faculty and student research. The Biology with a General Emphasis program allows students to develop an upper-division curriculum tailored to meet

their educational needs with the help of their faculty advisor. Western’s Biology program stands on an integrated conceptual foundation in biology, critical thinking skills, quantitative problem-solving abilities, leadership with team-building skills, and scientific research skills students obtain from lecture and laboratory courses. Students who graduate with a B.S. in Biology with a General Emphasis can apply their education to a variety of jobs across careers.

**The Biology, BA degree program provides students with the flexibility to develop an individualized upper-division curriculum in biology while also allowing for greater freedom to pursue other academic interests at WWU.*

To learn more about this major, visit the university catalog – catalog.wvu.edu

For a complete overview of course requirements for this program, access Degree Works via Web4u

Join the conversation: [facebook.com/groups/wwubiology](https://www.facebook.com/groups/wwubiology)



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To request this document in an alternate format, please contact biologyadvising@wwu.edu.

SAMPLE FIRST YEAR SCHEDULE

ALEKS Score:	FALL	WINTER	SPRING
Prior completion of Calc. 1	BIOL 204 CHEM 161 3-5 cr. non-science GURs	BIOL 205 CHEM 162 3-5 cr. non-science GURs	BIOL 206 CHEM 163 3-5 cr. non-science GURs
80	MATH 124 CHEM 161 3-5 cr. non-science GURs	BIOL 204 CHEM 162 3-5 cr. non-science GURs	BIOL 205 CHEM 163 3-5 cr. non-science GURs
70	MATH 118 CHEM 161 3-5 cr. non-science GURs	MATH 124 CHEM 162 3-5 cr. non-science GURs	BIOL 204 CHEM 163 3-5 cr. non-science GURs
55	MATH 114 7-10 cr. non-science GURs	MATH 115 CHEM 161 3-5 cr. non-science GURs	MATH 124 CHEM 162 3-5 cr. non-science GURs
35	MATH 112 7-10 credits of non-science GURs	MATH 114 7-10 credits of non-science GURs	MATH 115 CHEM 161 3-5 cr. non-science GURs

COURSE LOAD

Due to the heavy workload associated with lab-based courses, students are advised to take no more than two science courses per quarter (including math) during their first year. Course load will increase as students move through their program requirements.

DECLARING A BIOLOGY MAJOR

There is a two-step process for admission into all Biology degree programs. Phase I majors are students who have declared their intent to major in Biology and are in the process of completing the introductory biology and chemistry series (BIOL 204, 205, 206 & CHEM 161, 162, 163). Students must achieve a minimum GPA of 2.9 across these courses before they are advanced to Phase II and may begin taking upper-division courses. During their last quarter of Phase I, students will be required to attend a Phase II Advising Workshop prior to being advanced.

COURSE PLANNING WORKSHEET

	FALL	WINTER	SPRING	SUMMER
Year 1				
Year 2				
Year 3				
Year 4				