



Wyoming Transfer Alignment Guide (WyoTAG)

Botany, B. S.

The Bachelor of Science degree in Botany is designed to provide a thorough foundation in botany as well as other supporting areas of physical and life sciences and mathematics.

Degree Requirements

This degree requires 120 credits, 42 of which are upper-division credits.

University Studies Program

This degree requires that The University Studies Program 2015 requirements are met before graduation. Some of the courses required for this major fulfill USP requirements, but not all. Students should check their degree evaluations and consult with their assigned academic advisor to discuss their specific course plan.

Course Name	Credits	UW Course in Major	AA/AS/AB/ADN satisfies this USP
C 1-Communication 1 (COM1)	3		X
C 2-Communication 2 (COM2)	3		X
C 3-Communication 3 (COM3)	3	(Must be completed at UW)	
Q-Quantitative Reasoning (Q)	3		X
PN-Physical and Natural World (1) (PN)	3		X
PN-Physical and Natural World (2) (PN)	3		X
H-Human Culture (1) (H)	3		X
H-Human Culture (2) (H)	3		X
V-US & WY Constitution (V)	3		X
FYS or USP Elective-Any 3-credit hour of FYS or 3-credit hours of USP electives	3		X

Note: FYS courses have been paused. 3 hours from any additional USP designated courses is still required.

Lower Division Courses: 41-42 Hours

Students take introductory courses in biology, chemistry, physics, and mathematics. These courses provide the foundation for more advanced work in upper division biology courses and contribute to a more comprehensive understanding of biological processes.

Course Name	Credits	Casper	CWC	EWC	LCCC	NWCCD	Northwest	Western
MATH 1400 - College Algebra Q	3	X	X	X	X	X	X	X
MATH 1405 - Trigonometry Q	3	X	X	X	X	X	X	X
LIFE 1010 - General Biology PN	4	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
LIFE 2022 - Animal Biology OR MICR 2021 - General Microbiology OR MOLB 2021 - General Microbiology	4	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
LIFE 2023 - Biology of Plants and Fungi	4	Note 3			Note 3	Note 3	Note 3	Note 3
SOIL 2010 - Introduction to Soil Science	4	X	X	X	X	X	X	
CHEM 1020 - General Chemistry I PN	4	X	X	X	X	X	X	X
CHEM 1030 - General Chemistry II PN	4	X	X	X	X	X	X	X
GEOL 1100 - Physical Geology PN	4	X	X	X	X	X	X	X
LIFE 2100 - Intro Research and Analysis Q	4			Note 4				
GIST 2200 - Spatial Data Visualization OR GIST 2310 - Intro to Geographic Information Systems	3-4		Note 5	Note 5	Note 5	Note 5	Note 5	

Upper Division Courses: 40-42 Hours

Course Name	Credits	
BOT 3000 - Plant Ecophysiology/Plant Form and Function	4	UW Course
BOT 3600 - Plant Diversity and Systematics	4	UW Course
LIFE 3400 - General Ecology	3	UW Course
LIFE 3410 - Introduction to Field Ecology	2	UW Course
LIFE 3050 - Genetics	4	UW Course
LIFE 3500 - Evolutionary Biology	3	UW Course
BOT 4280 - Paleobotany OR BOT 4200 - Plant-Microbe Interactions	3-4	UW Course
BOT 4780 - Biogeochemistry	3	UW Course
BOT 4775 - Forest Ecology	4	UW Course
BOT 4550 - Computational Biology OR BOT 5600 - Ecological Modeling	3-4	UW Course
BOT 4700 - Vegetation Ecology	4	UW Course
BOT 4444 - Biology Capstone C3 Credits: 3 OR BOT 4965 - Undergraduate Research in Botany Credits: 1-10	1-10	UW Course

BOT Elective Requirement: 4 Hours

Choose 4 credit hours from the following:

BOT 3000-BOT 5999

Notes:

Note 1: All WYCCs offer BIOL 1010 which is equivalent to LIFE 1010.

Note 2: BIOL 2022 is equivalent to LIFE 2022. MOLB 2210 is equivalent to LIFE/MICR/MOLB 2021.

Note 3: BIOL 2023 is equivalent to LIFE 2023.

Note 4: EWC offers BIOL 2100 which is equivalent to LIFE 2100.

Note 5: EWC offers GIST 2200. GIST 2310 is offered at CWC, LCCC, Sheridan, and Northwest.

COURSE SUBSTITUTIONS: WyoTAGs reflect published equivalencies. UW academic departments occasionally arrange for course substitutions when indirect equivalencies exist. Please contact your UW Academic Advisor for details.

EFFECTIVE DATE: This document is in effect as of the 2026-2027 catalog year; it reflects the published UW curriculum as of that date. Any changes to the UW curriculum or the WYCC course equivalents will require this document to be updated. To request an updated document, faculty should contact transfer@uwyo.edu via email.