

# Wildlife & Fisheries Biology & Management–Aquatic, BS



## University of Wyoming, 2016-17

Freshman Fall Semester			Hrs	Min	Grade	Notes
		USP First-Year Seminar	3		C	FY; can substitute USP Communication I requirement.
CHEM	1020	General Chemistry I *	4			PN
LIFE	1010	General Biology **	4		C	PN
MATH	1400	College Algebra ***	3		C	Q; can substitute MATH 1450 (Algebra and Trigonometry) *** for MATH 1400 <u>and</u> MATH 1405.
Credit hours subtotal:			<b>14</b>			

Freshman Spring Semester			Hrs	Min	Grade	Notes
		USP Communication I	3		C	C1; can substitute USP First-Year Seminar requirement.
CHEM	1030	General Chemistry II	4			
LIFE	2022	Animal Biology	4		C	
MATH	1405	Trigonometry	3		C	Can substitute MATH 1450 (Algebra and Trigonometry) *** for MATH 1400 <u>and</u> MATH 1405.
Credit hours subtotal:			<b>14</b>			

Sophomore Fall Semester			Hrs	Min	Grade	Notes
		US & Wyoming Constitutions	3			V
LIFE	2023	Biology of Plants & Fungi	4		C	
LIFE	3400	General Ecology	3		C	
LIFE	3410	Field Ecology	2		C	
MATH	2200	Calculus I	4			Section aimed at biologists is recommended; can substitute MATH 2350 (Business Calculus I).
Credit hours subtotal:			<b>16</b>			

Sophomore Spring Semester			Hrs	Min	Grade	Notes
		USP Communication II	3		C	C2
		USP Human Culture ****	3			H
COSC	1200	Computer Information Systems	3			
STAT	2050	Fundamentals of Statistics	4			
ZOO	2450	Principles of Fish & Wildlife Management	3		C	
Credit hours subtotal:			<b>16</b>			

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

### University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

### College of Arts and Sciences requirements:

Students must take two "core" courses in addition to the USP requirements: Diversity in the United States (ASD) and Global Awareness (ASG). • No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation. • At least 30 hours in the major subject must be completed with a grade of C or better (the major may require more).

### Wildlife & Fisheries Biology & Management - Terrestrial Program Notes:

\* Requires MATH ACT  $\geq 23$ , MATH SAT  $\geq 600$ , Math Placement Exam  $\geq 3$ , or concurrent enrollment in MATH 1400, 1405 or 1450. (University standard)

\*\* Requires MATH ACT  $\geq 21$ , MATH SAT  $\geq 600$ , Math Placement Exam  $\geq 2$ , or  $\geq C$  in MATH 0921. (University standard)

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Junior Fall Semester			Hrs	Min Grade	Notes
LIFE	3050	Genetics	4	C	
ZOO	4430	Limnology Lab	2	C	
ZOO	4440	Limnology	3	C	
ZOO	4970	Internship	1		
Required PHYS, GEOL, or SOIL Course			4		Choose from PHYS 1110 (General Physics I), GEOL 1100 (Physical Geology), or SOIL 2010 (Intro to Soil Science).
Credit hours subtotal:			<b>14</b>		

Junior Spring Semester			Hrs	Min Grade	Notes
A&S Core Diversity in the US			3		ASD; can substitute A&S Core Global Awareness requirement.
ZOO	4330	Ichthyology	3	C	
Upper Division Aquatic Specialty Elective			4	C	
Terrestrial Specialty Elective			3	C	Consult with academic advisor about course options.
Human Dimensions Course *****			3		Required only for certification .
Credit hours subtotal:			<b>16</b>		

Senior Fall Semester			Hrs	Min Grade	Notes
USP Human Culture ****			3	H	
A&S Core Global Awareness			3		ASG; can substitute A&S Core Diversity in the US requirement.
ZOO	4310	Fisheries Management	3	C	
Upper Division Aquatic Specialty Elective			3	C	Recommend ZOO 4540 (Invertebrate Zoology).
Aquatic Specialty Electives			6	C	
Credit hours subtotal:			<b>18</b>		

Senior Spring Semester			Hrs	Min Grade	Notes
ZOO	4100	Scientific Communication	3	C	C3
ZOO	4190	Comparative Physiology	4	C	
ZOO	4400	Population Ecology	3	C	
Human Dimensions Course *****			3		Required only for certification .
Credit hours subtotal:			<b>13</b>		

**TOTAL CREDIT HOURS: 121**

### Wildlife & Fisheries Biology & Management - Aquatic Program Notes:

\*\*\* Requires MATH ACT  $\geq 23$ , MATH SAT  $\geq 600$ , Math Placement Exam  $\geq 3$ , or  $\geq C$  in MATH 0925. (University standard)

\*\*\*\* Students are strongly encouraged to enroll in Human Culture requirement courses that correspond to the College of Arts & Sciences Core required US Diversity (ASD) and Global Awareness (G) electives or else they will have to take separate ASD and ASG courses. A list of ASD & ASG courses that transfer is available.

\*\*\*\*\* At the end of the programs, students will have earned a degree that is compatible with the requirements for professional certification in the American Fisheries Society. Interested students **MUST** consult with their advisor for more information; additional coursework may be required. • One of the requirements for certification are six (6) hours that consider **Human Dimensions**. Students can select the six (6) hours from the following courses:

ENR 2000	Environment and Society	ENR/POLS 4051	Environmental Politics
ENR 3000	Approaches to ENR Problem Solving	ENR 4550	Negotiation Analysis
ENR/AGEC 3750	Natural Resources Economics	ENR 4750	Environmental Law & Policy
ENR 3900	Seminar: Env & Natural Resources	ENR 4900	Env & Natural Resources Policy Practice
ENR 4040	Conservation of Natural Resources	POLS 4052	Federal Land Policy