

# WATER SCIENCE & MANAGEMENT

## 2023/2024 Four-Year Plan

This document is for planning purposes only. For official degree information, refer to Degree Audit and speak with your advisor.

<b>YEAR 1 • FALL</b>	<b>GEOL 111/111L</b> Physical Geology for Science Majors	4	<b>YEAR 1 • SPRING</b>	<b>ELECTIVE</b> General Education	3
	<b>ELECTIVE</b> General Education	3		<b>ENGL 102</b> College Writing & Rhetoric <i>(Test Scores/ENGL 101)</i>	3
	<b>COMM 101</b> Public Speaking	2		<b>MATH 170</b> Analytic Geometry & Calculus I <i>(Test Scores/MATH 143)</i>	4
	<b>MATH 143 and 144</b> Pre-Calculus and Trigonometry <i>(Test Scores/MATH 108)</i>	4		<b>CHEM 111/111L</b> Principles of Chemistry I <i>(Test Scores/CHEM 101/MATH 143)</i>	4
	<b>ENGL 101</b> Introduction to College Writing <i>(Test Scores, ENGL 109)</i>	3			
	<b>TOTAL CREDITS</b>	16		<b>TOTAL CREDITS</b>	14
<b>YEAR 2 • FALL</b>	<b>CHEM 112/112L</b> Principles of Chemistry II <i>(CHEM 111)</i>	5	<b>YEAR 2 • SPRING</b>	<b>PHYS 111/111L</b> General Physics I	4
	<b>MATH 175</b> Analytic Geometry & Calculus II <i>(MATH 170)</i>	4		<b>PLSC 102 (F) or FOR/REM 221</b> The Science of Plants in Agriculture or Principles of Ecology <i>(BIOL 114)</i>	3
	<b>SOIL 205/206</b> The Soil Ecosystem <i>(CHEM 111)</i>	3		<b>STAT 251</b> Statistical Methods <i>(MATH 108, 143, 160 or 170)</i>	4
	<b>BIOL 115/115L</b> Cells & Evolution of Life <i>(CHEM 101 or 111)</i>	4		<b>GEOG 385 or FOR/NRS 375</b> GIS Primer or Intro to Spatial Analysis for Natural Resource Management	3
	<b>TOTAL CREDITS</b>	16		<b>TOTAL CREDITS</b>	14
<b>YEAR 3 • FALL</b>	<b>ASM 315 (F, Odd Years)</b> Irrigation Systems & Water Management <i>(SOIL 205, MATH CORE)</i>	3	<b>YEAR 3 • SPRING</b>	<b>ENGL 313 or 317</b> Business or Technical Writing <i>(ENGL 102; Sophomore or Junior)</i>	3
	<b>SOIL 415 (F, Odd Years)</b> Soil & Environmental Physics	3		<b>SOIL 446 (S)</b> Soil Fertility	3
	<b>GEOL 309 (F)</b> Ground Water Hydrology <i>(GEOL 111, MATH 143)</i>	3		<b>ELECTIVE</b> General Education	3
	<b>AGED 406 (S) or SOC 350</b> Exploring International Agriculture or Food, Culture & Society <i>(Junior/Senior, SOIL 205)</i>	3		<b>SOIL 422 (S, Even Years)</b> Environmental Soil Chemistry	3
	<b>PHYS 112/112L</b> General Physics II <i>(PHYS 111)</i>	4		<b>ENVS/SOIL 450</b> Environmental Hydrology <i>(MATH 143)</i>	3
<b>TOTAL CREDITS</b>	16	<b>TOTAL CREDITS</b>	15		
<b>YEAR 4 • FALL</b>	<b>FOR 326 or 462</b> Varies	3	<b>YEAR 4 • SPRING</b>	<b>HYDR 409 or 412 or GEOL 410</b> Varies	3
	<b>ASM 305 (F)</b> GPS & Precision Agriculture	3		<b>SOIL 452 (S, Odd Years)</b> Environmental Water Quality <i>(CHEM 112, SOIL 205, ENVS/SOIL 450)</i>	3
	<b>ELECTIVE</b> General Education	3		<b>SOIL 438 (S)</b> Pesticides in the Environment	3
	<b>ELECTIVE</b> General Education	3		<b>ELECTIVE</b> General Education	3
	<b>GEOG 475, 424, or 472</b> Varies	3		<b>ELECTIVE</b> General Education	3
	<b>TOTAL CREDITS</b>	15		<b>ELECTIVE</b> General Education	1
		<b>TOTAL CREDITS</b>	16		

COURSE # Course Name *(Prerequisites, Co-Requisites)*

F = FALL, S = SPRING



# WATER SCIENCE MANAGEMENT

This program is designed to meet the growing need in our state, nation and world for professionals who are trained to work in areas related to water. You will study water quality and quantity issues and learn to use science in the management and conservation of water in agricultural, domestic and wildland environments.

## Career Options

- Water Resource Specialist
- Water Quality Specialist
- Soil and Water Conservationist
- Environmental Scientist
- Precision Agriculture Consultant
- Geospatial Information Scientist
- Hydrologist or Geohydrologist



## Fast Facts

- Learn about GPS and precision agriculture practices.
- Hands-on experience at on-campus plant science farms and computer-controlled greenhouses.
- Complete an independent study.
- Conduct an undergraduate research project.
- Augment your knowledge with the new precision agriculture certificate.
- Get involved with the Plant and Soil Science Club, Hydroponics Club, H2IDAHO Club or Soil Stewards to gain experience beyond the classroom.