

Syllabus – Winter 2022

Water Quality Policy & Management (ESM 463/563)

<u>Date</u>	<u>Lecture</u>
1/4	Overview of Water Quality Management and Regulation in US & Oregon
1/6	Water Quality Standards and Beneficial Uses for Conventional Pollutants – Temperature, Bacteria, & Turbidity
1/11	Oregon Water Quality Standards: Toxic Chemicals – Human Health & Fish Consumption, Aquatic Life & Copper BLM
1/13	Water Quality Assessment: Oregon Integrated Report Methodology
1/18	TMDL Process Overview and Oregon TMDL Process
1/20	Use of Models for TMDL Development: Empirical & Mechanistic Model Overview
1/25	TMDL Implementation: Uncertainty & Adaptive Management
1/27	Point Source Permitting: Individual & General; Industrial & Municipal Sources
2/1	Urban Stormwater Management: MS4 Permits, Industrial Permits and DMAs
2/3	Nonpoint Source Pollution & Water Quality Management Plans in Oregon
2/8	Agricultural Lands WQ: Oregon Agriculture Water Quality Management Act
2/10	Agricultural Lands WQ
2/15	Drinking Water Source Water Protection: Nexus between CWA and SDWA
2/17	Forest Lands WQ: Oregon Forest Practices Act and Northwest Forest Plan
2/22	Forest Lands WQ
2/24	WQ Trading: Clean Water Services, Ashland, and Medford Examples
3/1	Klamath Basin WQ: Successes and Challenges
3/3	Yakima River - DDT TMDL and Implementation
3/8	WQ Successes in Oregon: Columbia Slough, Tualatin River, Wilson River, Bear Creek
3/10	With and Without a TMDL: Willow Creek & Whychus Creek

Assignments: 5 homework assignments (20 points each) = 100 points

Research Proposal (Due Thursday 2/10) = 50 points

Research Paper (Due Friday 3/16) = 50 points

Total Points = 200

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Assignments:

Assignment	When Assigned	Date Due	Points
Research Proposal	January 11 (info posted)	February 10	50
Homework #1	January 6	January 13	20
Homework #2	January 13	January 20	20
Homework #3	January 27	February 3	20
Homework #4	February 17	February 22	20
Homework #5	March 3	March 10	20
Research Paper	January 11 (info posted)	March 16	50
		Total	200

Grading: 95-100 = A
 90-94 = A-
 85-89 = B+
 80-84 = B
 75-79 = B-
 70-74 = C+
 65-69 = C
 60-64 = C-

Readings and references will be posted to Canvas

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