



Course Outline and Alignment Plan Template, Part 1

Course Goals

Course Learning Objectives

Course Title	Watershed Systems Stewardship
Course Number	NR 5884
Course Goals	<p>Course Goals</p> <p>In this course participants will demonstrate their ability to do the following:</p> <ul style="list-style-type: none"> ● Explore a watershed and available resources; ● Document your understandings in a publicly available medium to benefit others; ● Identify and engage potential collaborators or partners in advocacy and stewardship; and ● Learn from other students working on different projects but with similar goals.
Course Learning Objectives (CLO)	<p>Course Learning Objectives</p> <ol style="list-style-type: none"> 1. Learn how to create blogs and wikis or other publishing tools; 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 6. Identify and present relevant invasive plants or animals that threaten your selected watershed; 7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.

Course Outline and Alignment Plan Template, Part II

Major Topics

Topic Name	CLOs Assessed
1. Watershed identification, delineation and mapping.	3. Identify a watershed to study that is most relevant to your personal, professional or academic goals.
2. Comparative watershed land use characteristics and impacts.	3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 6. Identify and present relevant invasive plants or animals that threaten your selected watershed; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
3. Watershed physical structure and Scale.	5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
4. Watershed evaluation and monitoring strategies and protocols.	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
5. Stormwater engineering and management plans requirements and challenges.	2. Develop relevant, short slide presentations, voicethreads/pocasts, or video presentations; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
6. Stream corridor restoration planning, implementation, and evaluation.	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
7. Wetlands identification,	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations;

delineation, regulations, restoration and creation.	<ul style="list-style-type: none"> 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
8. Education, training, collaboration, and volunteer management.	<ul style="list-style-type: none"> 1. Learn how to create blogs and wikis or other publishing tools; 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
9. Advocacy training in data analysis, for legislative monitoring and nonprofits structures.	<ul style="list-style-type: none"> 1. Learn how to create blogs and wikis or other publishing tools; 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 6. Identify and present relevant invasive plants or animals that threaten your selected watershed; 7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.
10. Overview of Existing Examples of Programs and Partnerships	<ul style="list-style-type: none"> 4. Connect to a relevant watershed organization nonprofit or agency; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.

Course Outline and Alignment Plan Template, Part III

Assessment Plan

Planned Assessment	Formative / Summative	CLO Assessed	Grading Points / Percentage
1. Review the Syllabus	Formative	N/A	1000 (2%)
2. Identify and Select a Watershed	Formative	3. Identify a watershed to study that is most relevant to your personal, professional or academic goals;	2000 (4%)
3. Create a Blog or Wiki	Formative	1. Learn how to create blogs and wikis or other publishing tools; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	3000 (5.5%)
4. Mapping and Delineating your Watershed	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	5000 (9%)
5. Dendrology	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 6. Identify and present relevant invasive plants or animals that threaten your selected watershed; 7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	6000 (11%)

6. Watershed Special Characteristics and Features	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	5000 (9%)
7. Flood and Drought Data	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	3000 (5.5%)
8. Watershed Organization Research	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	5000 (9%)
9. Read and Comment on Others' Products	Formative - optional	1. Learn how to create blogs and wikis or other publishing tools; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency;	2000 (N/A)
10. Schedule an Online Meetup with your Instructor	Formative - optional	1. Learn how to create blogs and wikis or other publishing tools; 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy;	1000 (N/A)

		8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	
11. Watershed Special Threats or Challenges	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 6. Identify and present relevant invasive plants or animals that threaten your selected watershed; 7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	5000 (9%)
12. Equipment Research	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	4000 (7%)
13. Read and Comment on Others' Products	Formative (optional)	1. Learn how to create blogs and wikis or other publishing tools; 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.	2000 (N/A)
14. Invasive Plant and Animal	Formative	2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations;	4000 (7%)

Research		<p>6. Identify and present relevant invasive plants or animals that threaten your selected watershed;</p> <p>7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and</p> <p>8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.</p>	
15. Develop a Plan for Final Organization of your Course Products	Formative	<p>1. Learn how to create blogs and wikis or other publishing tools;</p> <p>2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations;</p> <p>3. Identify a watershed to study that is most relevant to your personal, professional or academic goals;</p> <p>4. Connect to a relevant watershed organization nonprofit or agency;</p> <p>5. Research and explain equipment relevant to watershed research, stewardship or advocacy;</p> <p>6. Identify and present relevant invasive plants or animals that threaten your selected watershed;</p> <p>7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and</p> <p>8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.</p>	3000 (5.5%)
16. Schedule an Online Meetup with your Instructor	Formative - optional	<p>1. Learn how to create blogs and wikis or other publishing tools;</p> <p>2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations;</p> <p>3. Identify a watershed to study that is most relevant to your personal, professional or academic goals;</p> <p>4. Connect to a relevant watershed organization nonprofit or agency;</p> <p>5. Research and explain equipment relevant to watershed research, stewardship or advocacy;</p> <p>6. Identify and present relevant invasive plants or animals that threaten your selected watershed;</p> <p>7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and</p> <p>8. Assemble your collection of products into a watershed overview, assessment or stewardship plan.</p>	1000 (N/A)

17. Flood Plain Maps and Alluvial Soils Investigation	Formative	<ol style="list-style-type: none"> 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan. 	3000 (5.5%)
18. Read and Comment on Others' New Products	Formative	<ol style="list-style-type: none"> 1. Learn how to create blogs and wikis or other publishing tools; 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 6. Identify and present relevant invasive plants or animals that threaten your selected watershed; 7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and 8. Assemble your collection of products into a watershed overview, assessment or stewardship plan. 	2000 (N/A)
19. Assemble a Final Portfolio to Archive and Share your Course Products	Summative	<ol style="list-style-type: none"> 1. Learn how to create blogs and wikis or other publishing tools; 2. Develop relevant, short slide presentations, voicethreads/podcasts, or video presentations; 3. Identify a watershed to study that is most relevant to your personal, professional or academic goals; 4. Connect to a relevant watershed organization nonprofit or agency; 5. Research and explain equipment relevant to watershed research, stewardship or advocacy; 6. Identify and present relevant invasive plants or animals that threaten your selected watershed; 7. Identify and present 8 to 20 species of trees or woody plants relevant to you or your watershed, similar to the invasives assignment; and 8. Assemble your collection of products into a watershed overview, 	6000 (7%)

		assessment or stewardship plan.	
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