Forest Water Resources  
FNR 4343C (3 credits)  
Spring 2019

Instructor  
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Office Hours  
Office hours will be Monday and Wednesday period 4 (10:40-11:30)

Class Meeting Times  
Lecture – Monday and Wednesday, Period 3 (9:35-10:25)  
Lab – Monday, Periods 7-9 (1:55-4:55)  
*Note there will not be labs every week. See schedule below.*

Recommended Text  

Course Objectives  
This course explores the hydrologic cycle with an emphasis on the impacts of forest management. By midway through the semester students will be able to describe and construct a water budget for a watershed, and explain how the various components of that budget are measured. Students will be able to describe how forests differ from other land uses with respect to their influence on regional hydrologic systems, and how these differences vary with forest management. By the end of the semester, students will understand various aspects of water quality and how forest management affect key processes such as sedimentation, nutrient loading, eutrophication, and anoxia. Students will become familiar with associated forest Best Management Practices (BMPs) that have been developed to reduce negative environmental consequences. Experts from forest industry, the Florida Forest Service, engineering/environmental science firms, state Water Management Districts and conservation organizations will help explore current issues in forest water resources.

Grades  
Five unannounced quizzes (2% each)  
Five lab reports (8% each)  

*Due 1/28, 2/11, 2/18, 3/1 & 4/15*  
Midterm Exam - In class, 2/27  
Final Exam – Take home, due 5/1  
Total  

10% will be deducted from assignment grades for each day late

Grading scale  
A = 100-93%  
A- = 90-93%  
B+ = 90-87%  
B = 87-83%  
B- = 83-80%  
C+ = 80-77%  
C = 77-73%  
C- = 73-70%  
D+ = 70-67%  
D = 67-63%  
D- = 63-60%  
E <60%
<table>
<thead>
<tr>
<th>Week</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Lab</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>Rainfall 1</td>
<td>No lab</td>
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<tr>
<td>2</td>
<td>Rainfall 2</td>
<td>Evapotranspiration 1</td>
<td>Rainfall lab (due 1/28)</td>
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<tr>
<td>3</td>
<td>MLK Day (No Class)</td>
<td>Evapotranspiration 2</td>
<td>No lab</td>
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<td>4</td>
<td>Runoff &amp; Infiltration</td>
<td>Soil water</td>
<td>ET lab (due 2/11)</td>
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<td>5</td>
<td>Hydrographs and flow</td>
<td>Stream networks</td>
<td>Streamflow lab (due 2/16)</td>
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<td>6</td>
<td>Lakes</td>
<td>Wetlands</td>
<td>Sweetwater field trip</td>
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<td>7</td>
<td>Groundwater 1</td>
<td>Groundwater 2</td>
<td>Groundwater lab (due 3/1)</td>
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<td>8</td>
<td>Midterm Review</td>
<td>Midterm</td>
<td>No lab</td>
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<tr>
<td>9</td>
<td>Spring Break (No Class)</td>
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<tr>
<td>10</td>
<td>Water chemistry 1</td>
<td>Water chemistry 2</td>
<td>No lab</td>
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<tr>
<td>11</td>
<td>Metabolism 1</td>
<td>Metabolism 2</td>
<td>Stream Biology workshop</td>
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<tr>
<td>12</td>
<td>Nutrients 1</td>
<td>Nutrients 2</td>
<td>Nutrient lab (due 4/15)</td>
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<td>13</td>
<td>MFLs</td>
<td>TMDLs</td>
<td>No lab</td>
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<td>14</td>
<td>BMPs 1</td>
<td>BMPs 2</td>
<td>BMP workshop</td>
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<tr>
<td>15</td>
<td>Exam Review</td>
<td>No class</td>
<td>No lab (Final Exam due 5/1)</td>
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UNIVERSITY OF FLORIDA POLICIES

Academic Honesty: As a result of completing the registration form at the University of Florida, every student has signed the following statement: “I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.”

Software Use: All faculty, staff and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against the University policies and rules, disciplinary action will be taken as appropriate.

University Support Services: Students experiencing crisis or personal problems are encouraged to utilize the university’s counseling resources. Both the Counseling Center and Student Mental Health provide confidential counseling services at no cost for currently enrolled students.
1. University Counseling Center, 301 Peabody Hall, 392-1575, www.counsel.ufl.edu
2. Student Mental Health, Student Health Care Center, 392-1171, www.hsc.ufl.edu/shcc/smhs.htm
3. Sexual Assault Recovery Services (SARS), Student Health Care Center, 392-1161
4. Career Resource Center, Reitz Union, 392-1601

Accommodations for Students with Disabilities: The Dean of Students Office coordinates accommodations for students with disabilities. Dean of Students Office, 202 Peabody Hall, 392-7066, www.dso.ufl.edu