ENVS 385/PHIL 482/IDS 385
Water: In Science, Philosophy and Literature

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Classroom: Candler Library Room 101
Meeting Times: Tuesday and Thursday 11:30 a.m. – 12:45 p.m.

**Week 1**  Thursday January 20
Course Introduction

**Week 2**  January 25 and 27
Primeval waters
Early ideas/wonderings about the mysterious nature of water

**Week 3**  February 1 and 3

*February 1*  The Hydrologic Cycle
Pielou *Fresh Water*  Chapter 1  The Water Cycle

*February 3*  Dr. Sidney Perkowitz  Department of Physics
“The Rarest Element”

**Week 4**  February 8 and 10
Water Below the Ground: Infiltration, Groundwater Movement and Aquifers
Pielou *Fresh Water*  Chapter 2  Water Below the Ground: Groundwater
Chapter 3  Groundwater in Use

**Week 5**  February 15 and 17
Stream Dynamics and Watersheds
Pielou *Fresh Water*  Chapter 5  Flowing Water: Rivers and Streams
Chapter 6  Rivers at Work
Week 6  February 22 and 24
Watershed Protection and Delineation
Outwater *Water: A Natural History*  
Chapter 1  The Fur Trade
Chapter 2  Nature’s Hydrologists
Chapter 3  The Woods

Week 7  March 1 and 3
Precipitation and Evaporation
Outwater *Water: A Natural History*  
Chapter 4  The Voyage of Rainfall

Pielou *Water*  
Chapter 12  Water in the Atmosphere: Vapor, Clouds, Rain and Snow

Week 8  March 8 and 10
March 8  Bodies of Water
Pielou *Water*  
Chapter 7  Lakes

*****March 10 Exam on Scientific Principles and Processes*****

Week 9  March 15 and 17  Spring Break

Week 10  March 22 and 24
March 22  Water and the Human Body

March 24  Dr. Arri Eisen Department of Biology
“Water Water Everywhere: Some Biology of Water”

Week 11 March 29 and 31
Water as a Destructive Agent: Floods and Attempts at Controlling Water

Outwater *Water: A Natural History*  
Chapter 7  Water Over the Dam
Chapter 8  Mussels, Gators and the Corps

Pielou *Water*  
Chapter 9  Dams, Diversions and Reservoirs

Water Symposium March 31- April 1

Week 12 April 5 and 7
Water Supply and Water Quality

Outwater *Water: A Natural History*  
Chapter 9  Aqueducts and Toilet Bowls
Chapter 10  Down the Drain, Up the Stack
Chapter 11  What Sludge Tells You
Week 13  April 12 and 14  Local Water Topics

April 12  Dr. John Wegner  Chief Environmental Officer
Department of Environmental Studies “A Water Tour of Emory Campus”

April 14  Water Quality in Metropolitan Atlanta

Week 14  April 19 and 21  Regional Water Topics

Watersheds in the Southeast

Week 15  April 26 and 28  Global Water Topics

April 26  Dr. Richard D. Rheingans  School of Public Health
“Water, Health and Equity”

April 28  Watershed Management in a Drought-Prone Area of Rural India

Field Trip Dates
Saturday, February 19  and Saturday, March 5  Venable Lake at Stone Mountain Park

Wednesday, March 23  R.M. Clayton Wastewater Treatment Plant

Saturday, April 2  Smithgall Woods
Helen, Georgia

Saturday, April 16  Duke’s Creek Woods
Helen, Georgia
The grading outline for the course is given above. The total number of points that can be earned is 1000. Your final grade will be calculated by adding up all of the points earned on your assignments, calculating a percent earned and converting that number to a letter grade. The point values for letter grades are given below. The total of 1000 points could be attempted with one of the assignment distributions suggested below.

<table>
<thead>
<tr>
<th>Points</th>
<th>Assignment</th>
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<tbody>
<tr>
<td>500</td>
<td>15 page paper with revisions (Required)</td>
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<tr>
<td>200</td>
<td>Exam over scientific principles and processes (Required)</td>
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<tr>
<td>100</td>
<td>Journal entries (Required: Eight 200-300 word entries, two entries per week, over a 4-week period, with a maximum of 50 points earned for each 2-week period)</td>
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<td>100</td>
<td>Saturday Field Trips (Required: Each student must attend two field trips. A write-up of one field trip is required)</td>
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<td>100</td>
<td>Write-up of water-related events or facilities visited outside of the regular class time. (ie attending talks, art exhibits, musical events, films, poetry readings, touring water-related facilities) Must be pre-approved for credit. Write-up of an activity planned and led by the student on a field trip stop A 600-800 word writing assignment</td>
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<tr>
<td>50</td>
<td>Write-up of a guest speaker visit</td>
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<td>50</td>
<td>Experiencing the “elements” (Short instructor-led field trips in the Emory area that take place during the class meeting time. It could be a scientific, data-gathering field trip or an outdoor writing experience) (Other assignments may be suggested during the semester.)</td>
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A 950 points or 95%  
A- 900 points or 90%  
B+ 870 points or 87%  
B 850 points or 85%  
B- 800 points or 80%  
C+ 770 points or 77%  
C 750 points or 75%  
C- 700 points or 70%  
D+ 670 points or 67%  
D 650 points or 65%  
D- 600 points or 60%  
F 550 points or 55%