

The World of Water
SWS 2007
Online
Spring 2015

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Canvas Website: <http://lss.at.ufl.edu>

Course Description:

This is an introductory course intended to acquaint students with many of the essential roles of water in the environment. Topics range from fundamental properties of water to the importance of water and water quality to society. Course topics also will include water in oceans, lakes, rivers, soils, and the atmosphere as well as the importance of water in various physical and chemical processes.

Each student who successfully completes the course should have a practical understanding of the following:

- The scale and distribution of global water resources
- Vocabulary to communicate fundamental concepts related to water science.
- The varied and unusual properties of water
- The varied roles of water in many environmental processes including new and historic scientific developments in relation to water in the environment.
- The fundamentals of water quality, terms and criteria for evaluating water quality, and how water quality is impacted by humans

Course Objectives:

This course satisfies the (P) designation for the physical sciences general education requirement.

Physical Sciences (P)

Physical science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the physical sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern physical systems. Students will formulate empirically-testable hypotheses derived from the study of physical processes, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

These general education objectives will be accomplished through

1. Evaluation of how the properties of water influence its function in human, organism, and environmental systems.
2. Analysis of how water and chemicals interact and how this influences aquatic systems, environments, and organisms.
3. Formulation and critical evaluation of hypotheses related to water's availability, quality, and distribution.
4. Application of basic scientific methodologies to the study of water science and foster new perspectives on the role of water and water quality in the environment.

Student Learning Outcomes

This course also will assess Student Learning Outcomes for Content and Skills:

Content: Students demonstrate competence in the terminology, concepts, and methodologies used within the discipline.

Communication Skills: Students communicate knowledge, ideas, and reasoning clearly and effectively in written and oral forms appropriate to the discipline.

Critical Thinking Skills: Students analyze information carefully and logically from multiple perspectives using discipline-specific methods, and develop reasoned solutions to problems.

The Student Learning Outcomes will be assessed through ongoing evaluation. Content will be tested using three objective exams, eight quizzes, written assignments, discussions and a group project incorporating fundamental concept knowledge and computations relevant to course material. Communication will occur through discussion during assigned meeting times, web-based discussion posts, and short answer as well as computation-based homework assignments. Critical thinking will be assessed through analysis, and application of data/results to issues related to water quality and treatment.

Text: When the Rivers Run Dry, by Fred Pearce, 2006. ISBN: 978-0-8070-8573-8

Additional reading assignments as well as audio/visual materials relevant to course topics will be provided as required.

Additionally, online discussion topics will be posed based on a reading of *Dune* by Frank Herbert. Participation is voluntary but, it's a great book and relevant to our subject.

Basic Course Requirements:

ALL COURSE ACTIVITIES WILL BE CONDUCTED USING THE ONLINE COURSE MANAGEMENT SYSTEM, CANVAS AT <http://lss.at.ufl.edu>. It is advised that all students familiarize themselves with the basic functioning of the Canvas system prior to commencement of the course. **Login requires a UF account username and password.** Navigation tabs are found on the left of the screen and permit access to the various course elements. Issues regarding connectivity also are addressed. **It is imperative that all students follow the directions to establish connectivity for discussions and online class meetings.**

Hardware requirements and internet accessibility are mandatory. You will need high-speed internet access, a webcam, a microphone, and a headset. **Speakers create feedback and are not adequate** for online communications. All hardware and connectivity must be tested prior to course commencement.

1. **Exams and Quizzes** are open-note and consist of interpretive questions as well as objective multiple choice and true/false, and short essay questions. Mastery quizzes are designed as partial preparation for exams. Further preparation will be provided by direct interaction with the instructor prior to posting of the exam and study guides provided in Canvas. Students also are expected to synthesize course concepts to respond to short essay questions that are designed to explore student understanding of fundamental processes and concepts.

Quizzes will be conducted online in Canvas. They are available during the time period when the corresponding Course module is open. Each quiz will consist of 10 questions randomly selected from a larger bank of questions. You may take the quiz three times during the prescribed period following completion of all module content.

Exams will be conducted online using the Canvas course management system and will be available for a minimum of 4 days. Exams are timed (1.5 hours); submission will be prohibited if the completion deadlines are not met. Therefore, you are expected to complete exams in a timely manner and not wait until the last minute. **Connectivity, hardware, or other computer-related issues are no excuse for lack of timely submission without proper documentation.** See Frequently Asked Questions (FAQs) at the end of the document for additional information. Exam dates are found in the Due Dates and Deadlines Section below.

2. **Assignments:** will address current and historic topics of water in the environment as well as basic assignments related to online lessons. They are designed principally to expose students to important issues related to water use and water quality. The **group project** is limited in scope, but requires cooperation among group members. Online communication between participants will be monitored to determine the degree of participation and collaboration between participants. **Individual** assignments will be graded based on quality of submission. Group assignments will be graded based on final submission and degree of participation as determined by the instructor. Grading for each assignment is explained in the assignment instructions.

3. **Discussions:** Peer-to-peer discussion as well as generalized discussion of course material are conducted via the course management system. Discussion topics will be posed as open-ended questions related to course material. **Please note that you will not be permitted to view other students' contributions to the discussion until your first submission is posted.** Additional points may be earned based on your **thoughtful** response to posted discussion contributions from fellow students. Students are expected to observe proper online etiquette and be respectful of alternative points of view. Please read a document describing this "netiquette" on the course home page in Canvas.

4. **Participation** Students are expected, but not required, to participate in regularly scheduled online meetings. Further participation opportunities will be provided for peer-to-peer discussion as well as generalized discussion of course material via the Canvas course management system.

5. **Communication** Communication with the instructor will be via e-mail, online class meetings and the canvas messaging system. Appropriate etiquette is required. E-mail communications that begin with “Hey”, “Mr. B”, or other similar salutations will be ignored. All communication also must include capitalization and punctuation, as well as reasonable grammar. **Include SWS 2007 Online** in the subject line.

6. **Deadlines:** **Please see the Due Dates and Deadlines Section below.** Each course module is detailed with respect to requirements and deadlines and an additional breakdown of due dates also is included. You are strongly encouraged to print that section and keep it available for your reference.

Grades

Grading will be based on exams, quizzes assignments, and discussions. For information on current UF policies for assigning grade points, please see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

| <u>ITEM</u> | <u>Quantity/ Value</u> | <u>Points</u> |
|---------------|------------------------|---------------|
| Assignment | 2 @ 45 each | 90 |
| Discussion | 3 @ 30 each | 90 |
| Group Project | 1 @ 90 points | 90 |
| Quiz | 8 @ 35 each | 280 |
| Exam | 3 @ 150 each | 450 |
| ===== | | |
| TOTAL | | 1000 |

Extra Credit: Opportunities for bonus points may be provided throughout the semester.

| <u>Letter Grade</u> | <u>Numerical Grade</u> | <u>GPA Points</u> |
|---------------------|------------------------|-------------------|
| A | 92-100 | 4.0 |
| A- | 90-91.9 | 3.67 |
| B+ | 86-89.9 | 3.33 |
| B | 83-85.9 | 3.0 |
| B- | 79-82.9 | 2.67 |
| C+ | 77-78.9 | 2.33 |
| C | 72-76.9 | 2.0 |
| C- | 70-71.9 | 1.67 |
| D+ | 66-69.9 | 1.33 |
| D | 63-65.9 | 1.0 |
| D- | 59-62.9 | 0.67 |
| E | <59 | 0 |

GENERAL POLICIES

Lesson Format: Lessons will be delivered principally as narrated PowerPoint presentations and videos. Online meetings will seek to reinforce presented material and to provide a forum for questions and discussion.

Assignment submissions: All assignments will be submitted online under the Assignments tab in Canvas. Requirements are detailed in Canvas for each assignment.

Assignment submissions must be thoughtful, well considered, and clearly presented. **All submission must be the product of each individual student's work. Copying information verbatim from peers, the web, books, articles, etc. will be considered a violation of the student honor code.**

Late Work: Submission of assignments is expected on time. Late work will not be accepted except under the most extreme, well-documented circumstances. See FAQs below for more information.

Keep an open mind. Even if this course has no direct relation to your major or to your immediate academic interests, allow yourself the opportunity to become interested and engaged in the material. Water has been and will continue to be a defining resource for humankind. The more you are informed, the better prepared you will be to deal with and critically evaluate water supply and water quality issues.

Outline of Topics: The World of Water

Module 1 Earth, Fire, Water, and Life

Domestic Water Use

Origins of Water

Water and Life

Water, Humans, and Civilization

Module 2 Populations, Agriculture, Industry, and Affluence

Water, Population, and Agriculture

Industrialization and Rising Affluence

Water and Energy

Water and Natural Gas

Module 3 The Water Molecule and the Properties of Water

The Water Molecule

Heat Capacity

Latent Heat

Florida and Convection

Solubility and Ions

Module 4 The Hydrologic Cycle

Ocean Salinity

Lake and River Basics

Colorado River

Groundwater Mining

Module 5 Florida's Geology and Groundwater Resources

Florida Groundwater I

Covering the Limestone

Porosity and Sinkholes

Recharge and Flow

Flow and Springs

Module 6 Introduction to Water Quality

Basic Water Quality Parameters

Point and Non-Point Contaminants

Determinants of Water Quality

Module 7 Biological Water Contaminants

Introduction to Biological Contaminants

Drinking Water Treatment

Aerobic Organisms and BOD

Module 8 Chemical Contaminants

Fluoride and Arsenic

Mercury

Organic Chemicals I

Organics II

Organics and Kow

Weekly Activities Due Dates and Deadlines

PLEASE NOTE THAT ALL QUIZZES, DISCUSSION POSTS, AND ASSIGNMENTS ARE DUE ON WEDNESDAYS, AND ALL EXAMS ARE DUE ON SUNDAYS AT MIDNIGHT.

Week 1 1/6 – 1/9 Course introduction

1. Access the Course Management Site (CANVAS) at <http://lss.at.ufl.edu>
2. Click on “Start Here” and follow all instructions
3. Take the **Syllabus Quiz** regarding course policies and guidelines
4. Complete the **Introductions Discussion**.

Syllabus Quiz due **Wednesday, 1-14**
Introductions Discussion Initial Post **Wednesday 1-7**
Introductions Discussion Final Post **Wednesday 1-14**

Module 1 1/12 – 1/21 Earth, Fire, Water, and Life

Initial Discussion Post **Sunday 1-18**
Final Discussion Post **Wednesday 1-28**
Module 1 Quiz Online due **Wednesday 1-28**

Module 2 1/23 – 1/28 Populations, Agriculture, Industry, and Affluence

Initial Discussion Post **Friday 1-30**
Final Discussion Post **Wednesday 2-4**
Module 2 Quiz Online due **Wednesday 2-4**

Module 3 2/2-2/11 The Water Molecule and the Properties of Water

Module 3 Quiz Online due **Wednesday 2-18**

Exam 1 2/16 – 2/22 Exam 1 and Preparation

Exam Review **Monday, 2-16 and Wednesday, 2-18**
Exam **Due at midnight on Sunday, 2-22**

Module 4 2/23 – 2/27 The Hydrologic Cycle

Module 4 Assignment Group Project **Due midnight on Sunday, 3-18**
Note the extended submission period for the group project.

Spring Break 2/28 – 3/8

Module 5 3/9– 3/18 Florida Geology and Groundwater Resources

Module 5 Quiz Online due **Wednesday 3-25**

Module 6 3/20 – 3/25 Introduction to Water Quality

Module 6 Quiz Online due **Wednesday 4-1**

Exam 2 Exam 2 and Preparation 3/30 – 4/5

Exam Review **Monday, 3/30 and Wednesday, 4-1**
Exam **Due at midnight on Sunday, 4-5**

Module 7 4/6 – 4-10 Biological Water Contaminants

Module 7 Assignment Due **Wednesday, 4-15**

Module 7 Quiz Online due **Wednesday 4-15**

Module 8 4/13 – 4/17 Chemical Contaminants

Module 8 Assignment Due **Wednesday, 4-22**

Module 8 Quiz Online due **Wednesday 4-22**

Exam 3 Exam III and Preparation 4/27 – 5/3

Exam 3 Review **Monday, 4-27 and Wednesday, 4-29**

Exam 3 **Due midnight on Sunday 5-3**

UNIVERSITY OF FLORIDA POLICIES

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: *"On my honor, I have neither given nor received unauthorized aid in doing this assignment."*

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>.

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 university policies and rules, disciplinary action will be taken as appropriate.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/*

Counseling Services
Groups and Workshops
Outreach and Consultation
Self-Help Library
Training Programs
Community Provider Database

- *Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/*

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation

0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Should you have any complaints with your experience in this course please visit <http://www.distance.ufl.edu/student-complaints>

SWS 2007 FREQUENTLY ASKED QUESTIONS (FAQ'S):

1. Do I really need to read this part?

Yes, because there will be a quiz. A perfect score is expected prior to accessing further course material. You will be allowed infinite attempts to achieve this score.

Please consult this FAQ section prior to submitting questions regarding course policies to the instructor.

2. Do I need to purchase a textbook?

No textbook is required for the course. Supplemental reading assignments (short) are addressed within each course module. Material from reading assignments is considered "fair game" on the exams.

3. Are there exams?

There are 3 scheduled exams. Requirements and format information is addressed above under "Exams" on page 2; Exam dates are indicated on page 8.

4. Do I have to make an appointment to take online Exams?

No. Exams are open note, but are timed. A minimum of 5 days is permitted in which to take each exam. Further information is outlined on page 2 above.

5. Do I have to have any special equipment to take the online Exams?

Yes, you will need to have access to a computer with reliable internet access. Ample time is allotted for taking each exam. **Last-minute computer problems are no excuse for not completing an exam on time.**

6. Where do I locate class material?

All course material is found in the UF Canvas course management system. Access is described immediately below.

7. What should I do first; how do get started?

Navigate to <http://lss.at.ufl.edu> Go to the class website in Canvas, directions are found on the Home page below the words the "Start Here".

8. Do I really need to finish reading the rest of these FAQ's?

Yes because there will be a quiz. You will need to complete a Syllabus FAQ quiz. As indicated above, of 10/10 is expected to pursue the rest of the course material.

9. How many assignments and Exams do I need to complete this semester?

There are 8 total quizzes worth 35 points each for a total of 280 points

There are 3 Exams worth 150 points each for a total of 450 points

There are 5 Assignments/Discussions worth a total of 180 points

There is 1 Group Project worth a total of 90 points

| <u>ITEM</u> | <u>Quantity/ Value</u> | <u>Points</u> |
|---------------|------------------------|---------------|
| Assignment | 2 @ 45 each | 90 |
| Discussion | 3 @ 30 each | 90 |
| Group Project | 1 @ 90 points | 90 |
| Quiz | 8 @ 35 each | 280 |
| Exam | 3 @ 150 each | 450 |
| ===== | | |
| TOTAL | | 1000 |

Pay close attention to the instructions within each Module as well as the posted assignments.

Print out a copy of the Due Dates document for continued reference throughout the semester. REFER TO THE DUE DATES DOCUMENT TO REMAIN ORGANIZED WITH YOUR DEADLINES THIS SEMESTER!

10. What happens if I miss a deadline to complete a Discussion Post or Assignment deadline?

A zero will be assigned, but in Module 8 during the last 2 weeks of class an amnesty will be in force during which you may submit any **one** missed assignment with the exception of the group assignment in Module IV.

11. What happens if I miss a deadline to complete a quiz?

A zero will be assigned. Quizzes are short and relatively simple, and ample time is allotted for submission. The only excuse is a technical issue with the course management system. This must be documented as indicated below under the computer-related problems heading below. Illnesses and emergencies also are addressed below.

12. What happens if I miss an Exam Deadline?

A zero will be assigned. Ample time is allotted for submission. The only excuse is a technical issue with the course management system. This must be documented as indicated below under the computer-related problems heading below. Illnesses and emergencies also are addressed below.

13. What if I get sick, have an important job interview scheduled, a family vacation, family reunion, emergency, or will be out of town for an athletic competition?

This is an on-line course. Being out of town is no excuse for missing a deadline.

All assignments are made available at least one week prior to the assignment deadlines. Contingency policies for missed assignments are outlined in previous FAQs and are considered to be consistent with university policies found at:
<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

14. Excuses for illness or family emergencies must be well documented: Well documented does NOT mean a note from a family member, etc. Well documented does NOT mean a note scribbled on a prescription pad from a physician or an excuse “note” from the Student Health Center...these types of excuses do not satisfy the criteria for further consideration. Well documented means a formal letter on letterhead with supporting documentation.

15. What if I have a computer-related problem accessing the course material? Or what if I complete an assignment and my grade doesn't appear in Canvas? What do I do then? Do I just lose credit for that assignment?

Because this is an online class, technical issues are bound to arise, so a system has been devised to alleviate potential problems. I **do not** hold students accountable for computer-related problems; HOWEVER, (AND READ THIS PART CAREFULLY), I don't give consideration to students who wait until the very last minute to begin assignments and then develop problems. So, be sure to read the following rules:

Rule 1: If you cannot access the CANVAS online course material –

- immediately contact the UF Helpdesk at (352) 392- HELP; (352) 392- 4957 and get a “Helpdesk ticket number”.

These folks are the computer technicians and technical support that can assist you with computer-related problems. I cannot assist with computer-related issues.

Rule 2: If you cannot view content in Canvas related to video lectures, any assignment, or course content and your assignment deadline is imminent:

- take a **screenshot** (print screen) of your computer screen error
- you must contact the UF Helpdesk and obtain a Helpdesk ticket number **BEFORE THE ASSIGNMENT IS DUE** (any helpdesk ticket numbers obtained after an assignment deadline will not be considered)
- you must email the instructor with descriptive problem details including relevant module and question numbers **BEFORE THE ASSIGNMENT IS DUE**.

16. How exactly, do I take a SCREENSHOT (print screen) of my computer screen? I never had to do this before...

If you're a PC user, the standard position of the Windows Print Screen Key would be at the upper right hand corner of your keyboard. It will probably appear within this sequence of keys...F9 F10 F11 F12 Print Screen Scroll Lock Pause/Break. Sometimes it appears as Print Screen| SysRq.



The sole function of this key is to take a snapshot or picture of your computer screen and copy it to the clipboard (the clipboard is an invisible holding area for content that is copied). It's the same thing as if you copied something from a document and it is now on your clipboard waiting to be pasted in its final destination.

Now, how do you get to see those Screen Captures or maybe even send them to someone? Open your favorite word processing program and create a new document. Position your cursor at the beginning of the document or wherever you want the screenshot to appear.

Using your keyboard, press Ctrl + V which will Paste the screenshot in your open document. Now you can Save (Ctrl + S) the document to wherever you wish, make sure to

name it appropriately so you can easily find it. You can now send this file to anyone via email.

Source: <http://www.seoconsultants.com/windows/print-screen/>

I'm a Mac user and don't have a print screen key; what do I do to take a SCREENSHOT?

If you want to do the equivalent of Print Screen to the clipboard so that you can paste it into another app, these are the commands you'd want to use:

* Command+Control+Shift+3: take a screenshot of the entire screen (screens if multiple monitors), and saves it to the clipboard for pasting elsewhere

* Command+Control+Shift+4, then select an area: takes a screenshot of selection and saves it to the clipboard for pasting elsewhere

* Command+Control+Shift+4, then space, then click a window: takes a screenshot of a window and saves it to the clipboard for pasting

Remember that the Command key on some older Mac keyboards has an Apple logo on it, but newer Mac keyboards will say 'command' on them. The command key is located next to the spacebar.

Now, how do you get to see those Screen Captures or maybe even send them to someone? Open your favorite word processing program and create a new document. Position your cursor at the beginning of the document or wherever you want the screenshot to appear.

Using your keyboard, press Ctrl + V which will Paste the screenshot in your open document. Now you can Save (Ctrl + S) the document to wherever you wish, make sure to name it appropriately so you can easily find it.

17. What filename should I use to save my SCREENSHOT file?

Save the document with your Last Name, First Name and Module number you are referring to as such: LastNameFirstNameMod1 (e.g. SmithJaneMod1). Do not use any spaces when naming files in Canvas as the recipient will not be able to open the file.

18. Can you tell me what hours the UF Helpdesk is available?

UF Helpdesk hours can be found at: <http://helpdesk.ufl.edu/>

19. Where can I locate my grades as I complete each assignment?

Assignments and Discussion Posts may take up to a week to appear in the Canvas "Grades" area. An email is sent to students when assignment grades are posted and released to students in the Grades.

20. What if my assignments don't appear in Canvas grades tab even after I complete the assignment?

It is important that you VERIFY that your submission was received by Canvas. Too often, **wireless connections are not stable and may not record your submission correctly.** After you upload any assignment to Canvas, it is important to re-log in to Canvas to verify that your assignment has been uploaded. Uploading your assignments to Canvas using a hard-wired connection is strongly recommended. It is the students' responsibility to verify that assignments are uploaded into Canvas.

21. What if I have a dispute about an incorrectly posted grade in the Canvas grades tab?

If you have a dispute about a grade posted, you must contact the instructor within three days after the grade is posted. After that, there will be no appeal on posted grades. Please be advised that this is your responsibility to do so within the time limit.

Grades will not "magically appear" at some point before the end of the semester; Discussion Posts and assignment grades may take up to a week after the assignment date to appear but an email will be sent to students when the grades are uploaded.

22. I'm not very good at writing notes from lecture class, I'm really nervous that I won't be able to keep up with the lecture material. What should I do?

You can watch the presentations multiple times and most allow you to pause the presentation or see previously viewed slides. The instructor and teaching assistants will be available to assist you with questions about course content during the semester.

23. What about attendance since this is an online class?

Scheduled online sessions with the instructor are designed to provide an environment for inquiry and clarification of course material. Both experience and common sense dictate that there is a high correlation between instructor interaction and class performance; whether a course is in-person or online.

Waiting until the last minute to begin reading, watching the videos, or beginning the assignments will lead to poor performance in this class.

COMPUTER-RELATED ISSUES ARE NOT AN ACCEPTABLE EXCUSE FOR MISSING AN ASSIGNMENT DEADLINE!



DO NOT WAIT UNTIL THE LAST MINUTE TO BEGIN ASSIGNMENTS