

Springs of Florida

FOR6934

Spring 2017

Instructors

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Office Hours

Official office hours will be Wednesday period 7 (1:55-2:45), however I have an open door policy; if I'm there, feel free to stop in. For Spring Semester I will generally be in the field on Tuesdays and Thursdays.

Meeting Times

The on campus section will meet Monday periods 6-7 (12:50-2:45) and Wednesday period 6 (12:50pm – 1:40pm) in 302 RLA. Lectures will be available for the distance-ed section on the e-learning Canvas site (<https://lss.at.ufl.edu>).

Note: Recorded lectures will also be available for on campus students, however attendance of lectures by on-campus students is generally required (exceptions will be made on a case-by-case basis). Several lectures will be guest speakers from management agencies, and to show proper respect and gratitude students should be present.

Required Text

Scott et al. 2004. *Springs of Florida* Florida Geological Survey Bulletin No 66. A pdf version is available for free download at http://publicfiles.dep.state.fl.us/FGS/WEB/springs/bulletin_66.pdf

Course Objectives

North Florida is world-renown for its abundance of artesian springs. This course will introduce students to these ecosystems. The learning objectives of this course are as follows:

- 1) Students will understand the hydrogeologic properties of North Florida which lead to spring formation, their ecological, social and economic importance, the current threats facing these systems, and the management agencies responsible for protecting them.
- 2) Students will translate classroom concepts to the field through site visits to several springs.
- 3) Students will practice cooperation and delegation of responsibility by creating a group project, and public speaking skills by presenting it to the class.

Grades

Field Trips – 30% total – On two Saturdays during the semester we will be taking field trips to visit nearby springs. The dates of the field trips are February 5 and March 19. To receive full credit, students must attend and actively participate in at least one of the field trips. Attending a second field trip will earn 20% extra credit. Please note the both field trips will require a small fee for canoe rental/glass bottom boat ride.

Exam – 40% - Due March 20 – A take-home exam will be distributed at the end of class on March 15 and is due before the beginning of class on March 20. Exam may be completed and submitted electronically on the e-learning site, or printed, completed and returned as a hard copy. The exam is open-book,

students are permitted to use any notes, texts and electronic resources, but may **not** complete the exam together.

Group Project – 30% - Due April 19 – Students will form groups of 3-4. Each group must include at least 1 distance-ed student. Each group will select a spring or grouping of springs of interest to them and produce a media project. The type of media must be cleared with the instructors, but may include an informational film, brochure, website, etc. Students are encouraged to be creative in both the format and content of their projects. Group projects will be presented to the class in the final week of the semester.

Letter grades will be determined as follows:

A = 100-90%	B+ = 89-86%
B = 85-80%	C+ = 79-76%
C = 75-70%	D+ = 69-66%
D = 65-60%	E <60%

Course Schedule*

Week	Monday	Wednesday	Saturday
1 2-Jan - 8-Jan	Introduction	Hydrologic cycle	
2 9-Jan - 15-Jan	Springs and Aquifers	Floridan Aquifer	
3 16-Jan - 22-Jan	MLK Day (No Class)	Water Age	
4 23-Jan - 29-Jan	Conduit Formation	“Water’s Journey”	
5 30-Jan - 5-Feb	Spring Channels	Light	Ichetucknee Field Trip
6 6-Feb - 12-Feb	Metabolism	Metabolism	
7 13-Feb - 19-Feb	Nutrients and Algae	Vegetation	
8 20-Feb - 26-Feb	Fauna	Fauna	
9 27-Feb - 5-Mar	History of Springs	Contemporary Usage	
10 6-Mar - 12-Mar	Spring Break (No Class)		
11 13-Mar - 19-Mar	Economic Value	Advocacy	Silver Field Trip
12 20-Mar - 26-Mar	Management Agencies	Management Agencies	
13 27-Mar - 2-Apr	Consumptive use permitting	MFLs	
14 3-Apr - 9-Apr	Numeric Nutrient Criteria	Restoration	
15 10-Apr - 16-Apr	Restoration	Group presentations	
16 17-Apr - 23-Apr	Group presentations	Group presentations	

*Topics/dates of certain lectures may change slightly based on availability of guest lecturers.

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