

FOR 3214: Fire Ecology & Management

SCHOOL OF FOREST, FISHERIES, AND GEOMATICS SCIENCES
UNIVERSITY OF FLORIDA
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“If we don't burn it when we can control it, it will burn when we can't.”
-Rick Anderson

Credits: 2

Class Hours: Friday | Periods 2-3 (8:30-10:25am)

Location: 222 Newins Ziegler Hall

Prerequisites: FOR 3153C or PCB 3034C or PCB 4044C, or the equivalent

Course Goals

The basic objective of this course is to understand the principles, concepts, and issues surrounding fire, and to integrate this information into the context of natural resource management, protection, and stewardship. At the end of this class, you should be able to:

Analyze fire as a physical process, including the chemistry and dynamics of fire

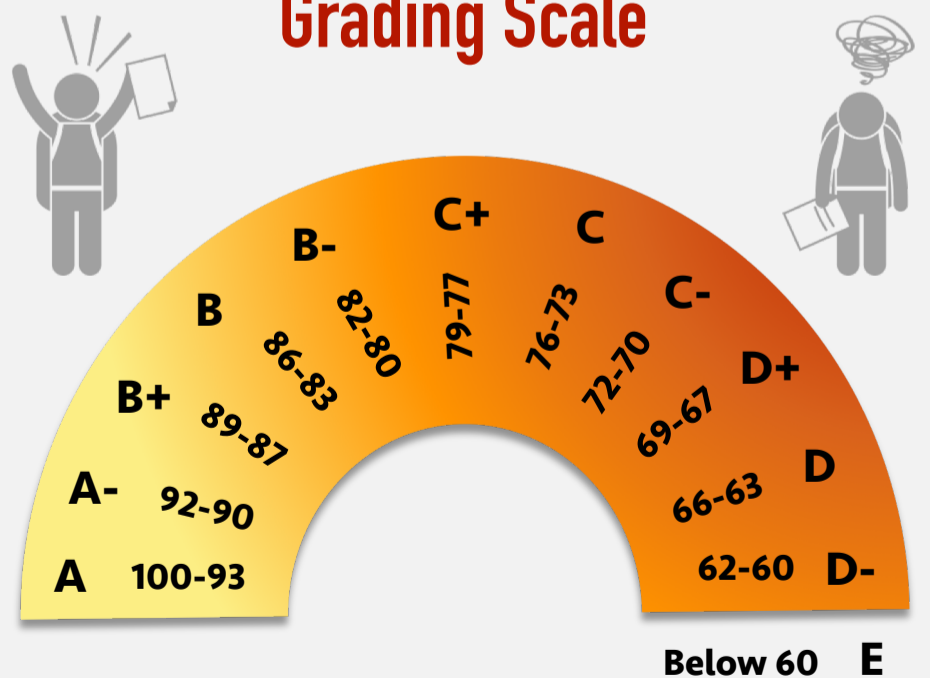
Understand fire as an ecological process, including effects on plants, animals, soil, water, and air

Identify social and political forces that affect the use of fire, and how they can be incorporated into land management decisions

Start your path to success here



Grading Scale



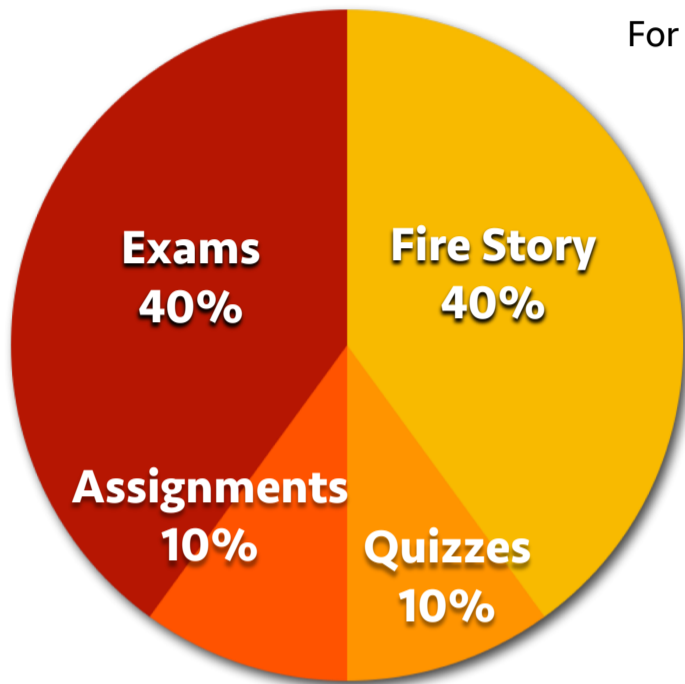
Grades are not rounded. For information on current UF policies for assigning grade points, see: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>



Advancing Student Learning



Brief Overview of Major Assignments



For details, access the course website on Canvas using your myUFL key.

Exams: Two comprehensive exams composed of a combination of multiple choice, short answer, labeling, and essay questions.

Assignments & Activities: Inquiry-based assignments and in-class activities will be periodically assigned.

Quizzes: Four 30-minute online quizzes due Sunday by midnight.

Fire Story: Each student will write a fire ecology and/or management paper based on peer reviewed literature.

Extra Credit: There will be four extra credit opportunities available during the semester. Each will be equivalent to 2% points on total grade.



List of Major Dates

January	February	March	April
16- Introduction	6- Fire Story Part 1	11- Spring Break	3- Quiz 4
30- Quiz	13- Quiz 2	20- Fire Story Part 2	3- Fire Story Part 4
	20- Meteorology	27- Fire Story Part 3	10- Fire Story Part 5
	25- Exam 1	27- Quiz 3	15- Exam 2



Required Course Readings

Waldrop, T.A., and S.L. Goodrick, editors. 2012 (slightly revised 2018). *Introduction to Prescribed Fire in Southern Ecosystems*. U.S. Department of Agriculture Forest Service, Southern Research Station, Asheville. Available at: https://www.srs.fs.usda.gov/pubs/su/su_srs054.pdf

Selected peer-reviewed papers, news articles, podcasts, and videos will be posted on individual modules on Canvas.



Frequently Asked Questions

<p>How will we teach?</p>	<p>Fridays 8:30-10:25am in 222 Newins Ziegler: Attend lectures in person with opportunities for discussion and critical thinking activities.</p>	<p>On Canvas: Read peer-reviewed papers and book chapters, listen to podcasts, and complete assignments and quizzes.</p>
<p>What are in-class activities?</p>	<p>In-class activities that accompany each lecture will require you to summarize information or brainstorm solutions to fire management challenges. They are not submitted for a grade but will help you summarize information for exams.</p>	<p>If you are not present in class, it is likely you will miss this material. Answers to in-class activities are not posted on Canvas.</p>
<p>How will we communicate?</p>	<p>Canvas announcements ONLY! Make sure you are signed up to receive Canvas updates. You will only receive emails for individual conversations.</p>	<p>Dr. Crandall will be in the classroom by 8am on Fridays or individual meetings are available upon request. Email instructor or teaching assistant for an appointment. Note that we are unable to have discussions immediately after the lecture because we will be rushing off to lab.</p>
<p>What if you must miss a class?</p>	<p>Review the lecture notes posted on Canvas, request notes from another student, and meet with your instructor if you have questions.</p>	<p>Do not fall behind! Communicate with your classmates, visit the class Canvas page, and turn in assignments on time. Please contact your instructors if you need to miss multiple classes.</p>
<p>What if you must miss many classes?</p>	<p>PLEASE communicate with us as soon as you think you will need to miss multiple classes or assignments. We will work with you to develop a plan for completing the course without undue stress.</p>	<p>We care and want to help you succeed. Thus, if we notice you are falling behind or not attending class, expect an email.</p>
<p>What if you miss a due date?</p>	<p>Unless PRIOR arrangements have been made with your instructors, there will be a 10% grade reduction each day an assignment or in-class activity is late up to one week. Seven days after the due date, the submission page will lock and a zero will be assigned. For example, if the assignment is due on the 5th, it will lock on the 12th at 11:59pm.</p>	<p>Make-up quizzes are not available. Quiz answers are posted after the quiz closes and discussed in lecture. If you miss a quiz, complete the extra credit, which will be equivalent to one quiz grade. Start your quiz early. Technical problems during the final hour are difficult to fix.</p>
<p>How can you provide <i>anonymous</i> feedback?</p>	<p>To provide comments and suggestions related to this class, complete a survey at: https://ufl.qualtrics.com/jfe/form/SV_249BMRhY8yutRXf Password: SPRING2022</p>	<p>To report a bias incident or hate crime to the UF Respect Team or UFPD, complete appropriate form at: https://respect.ufsa.ufl.edu/</p>



Resources to Help You Succeed

Policies & Requirements

This syllabus represents current plans and objectives for this course. As the semester progresses, changes may need to be made to accommodate timing, logistics, or to enhance learning. Such changes, communicated clearly, are not unusual and should be expected.

Diversity & Inclusion

Although natural resources and their management are important to all humans on Earth, modern natural resource management was built on a small subset of voices. This is why integrating a diverse set of experiences is important for a more comprehensive understanding of natural resource science and management. We acknowledge that it is possible that there may be both overt and covert biases in the material due to the lens with which it was written, even though the material is primarily of a scientific nature. We will strive to address these issues by including material from diverse perspectives when possible and by creating a classroom environment conducive to respectful, professional communication.

Just as in any professional environment, meaningful and constructive dialogue is expected in this class and requires a degree of mutual respect, willingness to listen, and tolerance of opposing points of view. Respect for individual differences and alternative viewpoints will be maintained at all times in this class. One's words and use of language should be temperate and within acceptable bounds of civility and decency. Friendly persuasion wins friends and influences people. Aggressively arguing your point often does the opposite and stops dialogue.

Inclusive Learning Environment

This course embraces the University of Florida's Non-Discrimination Policy, which reads,

The University shall actively promote equal opportunity policies and practices conforming to laws against discrimination. The University is committed to non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information and veteran status as protected under the Vietnam Era Veterans' Readjustment Assistance Act.

If you have questions or concerns about your rights and responsibilities for inclusive learning environment, please see the instructor or refer to the Office of Multicultural & Diversity Affairs website: <http://multicultural.ufl.edu>.

Zoom Courtesy & Requirements

A computer or mobile device with high-speed internet connection is required for synchronous class time. You will also need a webcam, headset and/or microphone, speakers, and the latest version of web browser that supports Canvas.

Synchronous online sessions may be recorded. By sharing your video, screen, or audio during any synchronous online class sessions, you are consenting to being recorded for the benefit of students who cannot attend live as well as for class review during the current semester. If you have special circumstances or concerns about privacy, it is your responsibility to discuss it with your instructor.

If possible, please turn your camera on during class Zoom sessions; this is especially important during small team breakout work. We have a welcoming and professional classroom environment, and we expect your Zoom presence to support that. What you wear and what shows in the background of your camera should be neutral and not distract from the learning environment. Making use of the photo background function of Zoom is a good way to have a neutral background.

Communication Courtesy

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats (i.e., Netiquette). Failure to do so may result in loss of participation points and/or referral to the Dean of Students' Office. https://www.cise.ufl.edu/wp-content/uploads/2019/08/CISE_Netiquette_Guide.pdf

Late Submissions & Make-up Requests

It is important that you be present for every class meeting, so you can interact with your classmates and participate in activities. It is the responsibility of the student to access online lectures, readings, quizzes, and exams and to maintain satisfactory progress in the course.

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Computer or other hardware failures, except failure of the UF e-Learning system, will not excuse students for missing assignments. Any late submissions due to technical issues MUST be accompanied by the ticket number received from the Helpdesk when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request consideration.

For computer, software compatibility, or access problems call the HELP DESK phone number at 352-392-HELP = 352- 392-4357 (option 2).

Help for Technical Difficulties

For issues with technical difficulties for e-learning in Canvas, please post your question to the Technical Help Discussion in your course, or contact the UF Help Desk at:

Learning-support@ufl.edu | (352) 392-HELP - select option 2 | <http://elearning.ufl.edu>
Library Help Desk support <https://uflib.ufl.edu/find/ask/>
SFRC Academic Hub <https://ufl.instructure.com/courses/303721>



More Resources to Help You Succeed

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."*

Academic Honesty Policy

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 or 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/process/student-conduct-honor-code>.

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/

UF/IFAS Field and Fork Food Pantry

The Pantry (<http://pantry.fieldandfork.ufl.edu>) is a resource on the University of Florida campus committed to eradicate food insecurity. Food insecurity is not having a reliable access to nutritious foods for yourself on a regular basis. If you, or anyone you know is experiencing food insecurity, the Pantry is a resource to visit. We offer non-perishable food, toiletries and fresh vegetables grown at the Field and Fork Gardens to provide a well-balanced diet. Protecting the privacy of its guests and providing food to those in need within our campus community is our priority. Our guests do not need any proof of need to use this resource, all that is needed is a Gator 1 ID to prove you are a current Student, Faculty or Staff at the University of Florida.

Student Life, Wellness, and Counseling Help

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to use 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.

Counseling and Wellness resources <http://www.counseling.ufl.edu/cwc/>
U Matter, We Care <http://www.umatter.ufl.edu/>
Career Connections Center <http://career.ufl.edu/>
Other resources are available at <http://www.distance.ufl.edu/getting-help> for online students.

Semester Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning.

At approximately the mid-point of the semester, the School of Forest, Fisheries, and Geomatics Sciences will request anonymous feedback on student satisfaction on various aspects of this course. These surveys will be sent out through Canvas and are not required but encouraged. This is not the UF Faculty Evaluation!

At the end of the semester, students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

Student Complaint Process

The School of Forest, Fisheries, and Geomatic Sciences cares about your experience and we will make every effort to address course concerns. We request that all our students complete a course satisfaction survey each semester, which is a time for you to voice your thoughts on how your course is being delivered.

If you have a more urgent concern, your first point of contact should be the SFRC Academic Coordinator or the Graduate/Undergraduate Coordinator for the program offering the course. You may also submit a complaint directly to UF administration:

Students in online courses: <http://www.distance.ufl.edu/student-complaint-process>
Students in face-to-face courses: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

Software Use

All faculty, staff and students at 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.