COURSE DESCRIPTION

Course Title: Forestry 6934 – Longleaf Pine: Ecology, Management and Restoration (2 credits)

Taught as a “Maymester” course at the Jones Ecological Research Center May 19-24, 2019

Desired Prerequisites: Students should have a background course in ecology, soils, silviculture

Instructor: Dr. Eric J. Jokela, Professor Emeritus
375 Newins-Ziegler Hall
846-0890
e-mail: ejokela@ufl.edu

Text: Assigned readings from the primary literature and textbooks such as:


Purpose and Objectives:

1) Knowledge of fundamental ecological, silvicultural and habitat management concepts used in the management and restoration of longleaf pine communities;

2) To provide field examples and practical experience in the design, prescription, and implementation of applied silvicultural techniques for managing longleaf pine forests for conservation and restoration objectives;

3) To read and critically analyze the primary literature in longleaf pine management and ecology.

Methods of Instruction:

1) Lectures Major source of theory and technical information

Discussion: To emphasize important topics
Answer questions
Provide information from recent research
Read and discuss assigned papers

2) Laboratory Major source of practical and applied information;

3) Textbook - REQUIRED READINGS - assigned pages in texts and supplemental papers.

4) Field trips - to observe habitat management practices and meet with natural resource management professionals working in longleaf pine ecosystems.

Evaluation:

1) Final Essay

2) Discussion participation (readings, assignments, daily Quizzes, field exercises)

3) Grade Assignments - The boundaries for each grade (% of total points) are:

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<th>Percent (%)</th>
<th>Grade</th>
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<tr>
<td>93.4 - 100</td>
<td>A</td>
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<td>90.0 - 93.3</td>
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<td>86.7 - 89.9</td>
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<td>83.4 - 86.6</td>
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<td>80.0 - 83.3</td>
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<td>76.7 - 79.9</td>
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<td>73.4 - 76.6</td>
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<td>63.4 - 66.6</td>
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<td>60.0 - 63.3</td>
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<td>Less than 60%</td>
<td>E (Fail)</td>
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ACADEMIC HONESTY

Plagiarism will not be tolerated!

The University of Florida requires all members of its community to be honest in all endeavors. Cheating, plagiarism, and other acts diminish the process of learning. When students enroll at UF they commit themselves to honesty and integrity. Your instructor fully expects you to adhere to the academic honesty guidelines you signed when you were admitted to UF. As a result of completing the registration form at the University of Florida, every student has signed the following statement: “I understand 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.” Furthermore, on work submitted for credit by UF students, 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 to be assumed all work will be completed independently unless the assignment is defined as a group project by the professor. Examples of academic dishonesty would include, but not be limited to taking of information, tendering of information, plagiarism, conspiracy and bribery. When you use information from a source, provide a full literature citation. Copying information from other documents (whether they are websites, newspaper articles, or anything) is plagiarism and will not be tolerated. This policy will be vigorously upheld at all times in this course.

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.

UF Counseling Services

Resources are available on-campus for students having personal problems or lacking clear career and academic goals which interfere with their academic performance. These resources include:

1. University Counseling Center, 301 Peabody Hall, 392-1575, personal counseling;

2. Student Mental Health, Student Health Care Center, 392-1171, personal counseling;
3. Sexual Assault/Abuse Recovery Education, Student Health Care Center, 392-1161 x231, assist with sexual assault issues;

4. Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

Accommodations for Students with Disabilities:

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.

COURSE OUTLINE (TENTATIVE)

Sunday, May 19

5:00 PM  Arrival, check in
5:30   Jones Center introduction, course overview
6:30   Dinner

Monday, May 20

8:00 AM  LLP Natural History and Stand Dynamics
9:00  LLP Communities
9:30  Break
9:45  LLP Soils
10:30  Fire Ecology
11:00  Prescribed Fire Management
12:00 PM  Lunch
1:00  Field Tour – Ichauway LLP Communities moisture gradient, mixed LLP/HW, wetlands, stocking structure, ground cover, soils, etc.)
4:00  Silvicultural Systems
4:30   Stoddard-Neel Approach (concepts)

**Tuesday, May 21**

8:00 AM  Artificial Regeneration
         Old Field
         Cutover

8:45   Planting Stock

9:30   Understory Restoration

10:00  Ichauway Restoration Sites Field Tour

12:00  Lunch

1:00   LLP Wildlife – Overview and Game Management

1:30   Carbon Cycling Overview

2:15   Field Tour (*Rhedia Pond and Red Dirt*)
       Wetlands
       Plant Diversity
       Fire Suppression Site

**Wednesday, May 22**

8:00 AM  LLP Management in a Changing Climate

8:30   LLP, Ecohydrology and Water Yield

9:15   LLP Wildlife – LLP herpetofauna overview

9:45   Wildlife Management Field Tour
       *Gopher Tortoise*
       *Quail Management*
       *RCW biology and Management*

11:30  Lunch

12:15  Depart for Overnight Field Tour

1:30   Greenwood Plantation Old Growth LLP

4:30   Depart for St. Marks

6:00   Check In Shell Island Fish Camp

6:30   Dinner Spring Creek Restaurant
**Thursday, May 23**

8:00 AM  Depart Shell island Fish Camp

8:30  Meet USFWS personnel for St. Mark’s NWR field tour

12:00 PM  Lunch

1:30  LLP Flatwoods Apalachicola NF

3:30  LLP Xeric Site Apalachicola Bluffs TNC Preserve

4:30  Depart for Ichauway

**Friday, May 24**

8:00 AM  Economics

8:30  Stoddard-Neel Approach (application), overview of marking

9:30  Depart for Marking Exercise in Field

10:00  Marking Exercise

12:00 PM  Review Marking Exercise

12:45  Lunch

1:30  Field Tour

  Species Conversion

  Tornado Damage

3:00  Evaluation, depart

**NOTE:**  THERE WILL BE A $175 FEE PAID DIRECTLY TO THE JONES ECOLOGICAL RESEARCH CENTER FOR LODGING, LUNCHES, TRANSPORTATION AND COURSE MATERIALS.  YOU WILL BE RESPONSIBLE FOR BRINGING YOUR OWN FOOD (BREAKFASTS/DINNERS), SLEEPING BAG, AND TOWEL.
ADDITIONAL REQUIRED READINGS

Preliminary Readings Prior to Course


Readings During Course

Jokela:

McIntyre:


**Jokela/McInyre:**


