Instructor: Jim Riach
Office hours: TBA
Location: AHC5 366
Preferred Contact: Canvas messages

Course Description
The course introduces the student to ecological principles and to the South Florida environment. Students will learn to apply the ecological principles to explain the processes that have influenced the existence of plants and animals within South Florida from ancient to present times. The main biological and physical features of South Florida as a whole and which distinguish its diverse environments will be described and explained. The course will analyze how humans have used and impacted the different environments of South Florida since the times of their earliest occupation of the region. Students will participate in discussions of current debates of environmental issues concerning the South Florida ecology.

After successfully completing this course, the students will be able to:
- Define, apply, and use ecological principles to explain processes that affect the distribution and abundance of plants and animals in South Florida;
- Identify the main biological and physical features of South Florida and its diverse environments;
- Explain how different environments within South Florida were formed and are changing due to natural and human-driven processes;
- Explain ongoing debates of environmental issues affecting South Florida;
- Determine if and how various economic and recreational human activities may be affecting the ecology and/or wildlife of South Florida; and
- Describe and analyze different views regarding how best to protect and/or restore the South Florida environment.

Canvas
All students will be assigned a CANVAS account for online access to the course, which will contain lecture supplements, professor access, assignment submission tools, and suggested links.

Required Texts – All Available as e-books


Grading
<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Exams (x2)</td>
<td>40%</td>
</tr>
<tr>
<td>In-Class Activities (7)</td>
<td>50%</td>
</tr>
<tr>
<td>Final Reflective Activity</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Total Percentage Score</strong></td>
<td><strong>100 %</strong></td>
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</tbody>
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Grades are based on the following percentages.

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\begin{align*}
D &= 60-69 & F &= 0-59
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Graded Activities

Exams
There will be three non-cumulative exams during the regular class period in the semester. No exams will be given during final's week. Exams will cover material from the readings, lectures, and in-class activities. The homework and in-class activities help build the knowledge and skills necessary to do well in the exams. Several movies may be shown in class. Questions about the movies may appear on the exams. If you miss class on a day a movie is shown, it is your responsibility to get notes from a classmate and/or try to see it. Students will be provided with a list of the material from the textbooks that they will be expected to know for the exams. Even if the lectures do not cover all of this material, the students will still be responsible for knowing this material for the exams.

In-Class Activities
There will be a total of seven in-class activities that combine individual and collaborative work. The individual component of the activity is weighted to equal 60% of the total grade, while the group component is weighted to equal 40% of the total grade for the activity. So, if a student scores 50/100 on the individual component, but scores 100/100 on the group component, the total grade for the student is

\[
\frac{50}{100} \times 60\% + \frac{100}{100} \times 40\% = 30 + 40 = 70\%
\]

The instructor will advise students as to any additional materials they may need to bring to class for the activity and may hand out additional materials as needed. There will be activities for every module covered in the semester. Failure to participate in any graded activity due to unexcused absences will result in the student receiving a zero for the graded activity missed.

Final Reflective Activity
During the modified schedule of final’s week, the class will meet to conduct an extended final reflective activity. The activity is intended to help students ponder on how experiences from the class may have influenced their knowledge and attitudes about South Florida’s environments and about learning strategies.

Optional Extra Credit
Students have the option to receive a maximum of 5% points of extra credit for the semester by completing one of the following options. No more than 5% points will be given regardless of how many additional service activities a student participate sin or how many seminars are attended.

- Option 1: Students complete one environmental or ecological service assignment and submit a 500-word (2 pages double-spaced with 12 point font) paper through turnitin describing the service performed and how it contributed to the learning experience of the course. The service activity can involve volunteering with events organized by any FIU student organizations or other non-FIU community organizations.
- Option 2: Students may substitute the service assignment by attending at least two seminars dealing with environmental or ecological issues affecting S. Florida and submitting one 500-word paper for each seminar describing the issues addressed, what was learned and how your attendance at the event contributed to the learning experience of the course.

Requirements for the extra credit:
- Service assignments or seminars attended must be related to S. Florida ecological or environmental issues.
- Students must provide the professor with a description of their selected extra credit. Only those service activities or seminars pre-approved by the professor will be accepted for a grade.
- Students are required to show proof of participating in the service activity or attending the seminar.
  - Examples of proof include:
completed off official registration and/or attendance documentation with the appropriate signatures provided by the event organizers (the FIU Nature Preserve does this by default)
- E-mails sent to the professor by the event organizers vouching for the participation of the student in the event.
- Photographs that show the student together with the organizers of the event and participating in the described activity together with other participants will also be accepted.
  - NOT accepted as proof are:
    - “Selfies” or photographs that only show the student without including images of the organizers or of the student participating in the actual event with other volunteers
    - Just the students word of having participated in the event.

Class Policies

Missed Work
Failure to take an exam, or a quiz, to submit any papers by their assigned deadline, or to participate in class activities will result in the student earning a zero for that work. Missed exams or paper deadlines may be made up under only very exceptional circumstances and with proper dated documentation provided within 48 hours of the date the work was to be completed. The student is responsible for contacting the instructor ahead of time if he/she knows that work will be missed. If the instructor deems it appropriate to allow the student to makeup the missed work, the content of any makeup work will be comparable to the one missed, but the format may be different and the work may be subject to point deductions.

Arriving to class late or leaving early
Students are expected to arrive on time to class and to remain in class until the end of the class period. If a student misses any graded activity as a result of arriving late or leaving early it will be considered an unexcused absence and they will receive a zero for the activity.

Laptops and Handheld Devices
Laptops and handheld devices can be a powerful learning tool if used properly in the classroom. However, they can also be a major source of distraction for students and the professor. The professor reserves the right to ask students to turn off and/or put away these devices if he deems it necessary to do so (such as during certain in-class activities). No electronic handheld devices of any kind are allowed during exams. If a student is caught using a handheld device during the exam, the exam will be taken from the student and the student will receive an F for the semester and will be referred to the Office of the Provost for Academic Affairs for further action.

Attendance
Attendance is mandatory for the first two weeks of classes as per the mandate of the Office of the Provost. Attendance records for these two weeks will be submitted to the Office of the Provost. However, there is no separate grade for attendance. Nonetheless, unexcused absences will result in points being lost for in-class activities. For this reason, all athletes, cheerleaders, Golden Dazzler dancers, and any other students involved in official FIU events during the semester need to inform the instructor ahead of time in writing of any absences due to official FIU events. All students who need to miss class due to legitimate unavoidable circumstances need to notify the instructor before the absence to make plans for making up any missed work. Students who were absent to class due to unexpected emergencies should contact the instructor about the absence in writing within 48 hours in order to have a chance of making up any missed graded activity.

Proper Conduct in Class
While students are in the classroom, they are expected to act as respectful adults. Disturbing other students with chatter, the use of a laptop or handheld devices in class, or other disrespectful behavior will not be tolerated and students will be asked to leave the classroom and referred to the Office of the Provost for Academic Affairs for further action.
Academic Misconduct
All students are held to the following pledge

As a student of this university:
- I will be honest in my academic endeavors.
- I will not represent someone else’s work as my own.
- I will not cheat, nor will I aid in another’s cheating.

All matters relating to academic misconduct are referred to the Office of the Provost for Academic Affairs. Acts of academic misconduct may be alleged by faculty, staff or students.

Plagiarism
FIU defines plagiarism as the deliberate use and appropriation of another's work without any indication of the source and the representation of such work as the student's own. Any student who fails to give credit for ideas, expressions or materials taken from another source, including internet sources, is guilty of plagiarism. Any student helping another to plagiarize may be found guilty of academic misconduct. All written assignments will be submitted to Turnitin to check for potential plagiarism.

All of the following are considered plagiarism:
- turning in someone else's work as your own
- copying words or ideas from someone else without citing the original source
- failing to put a quotation in quotation marks
- using a quote that is more than 40 words long
- incorrectly citing the source of a quotation
- changing words (using synonyms) without changing the sentence structure of a source without citing the source
- a paper in which more than 15% of the content is copied from a source (or one's own previous work), whether it is cited or not
- the use of one's own previous work in another context without citing that it was used previously

For more information on plagiarism and how to avoid plagiarism you can visit the following website:
http://www.plagiarism.org/plagiarism-101/what-is-plagiarism/

All matters relating to academic misconduct are referred to the office of Student Conduct & Conflict Resolution. Acts of academic misconduct may be alleged by faculty, staff or students. Academic misconduct can result in the student receiving a zero for the assignment or an F in the class depending on the seriousness of the offense.

Special Notices
Disability Resource Center
If a student has a disability and needs assistance with class, please contact the Disability Resource Center (GC 190; 305-348-3532). It is the responsibility of each student to work with the Center and Instructor to make arrangements as needed for their accommodations.

Early Alert System
In order to help reduce the chances of a student doing poorly or failing the class due to preventable circumstances, the FIU has introduced the early alert system. According to this system, the professor will notify the academic advisors of students who earn zeroes or very low scores early in the semester. The advisors will then contact the students to follow up on the issue.

Class Schedule
Aug 27-29 Introduction to course and class
Basic Concepts
Sep 3-5  Natural ecosystems and native species
           Ecoconcepts associated with ecosystems
           Physiographic regions
           Florida's Uplands: 1-13

Sep 10-12  **Sept 10: ICA #1** – Natural ecosystems, native species, and ecological concepts
           The past and the future
           Prehistoric biogeography
           Florida's Uplands: 127-143

Sep 17-19  Prehistoric biogeography cont’d. and Sea Level Rise
           **Sept 19: ICA #2** – Biodiversity, physiographic regions, and evolution of S. Fla

Sep 24-26  Pinelands
           Florida's Uplands: 15-35; and 109-112
           Rockland hammocks
           Florida's Uplands: 112-125

Oct 1-3    **Oct 1 – ICA #3:** Pinelands and rocklands
           **Oct 3: Exam 1 Review**

Oct 8-10   **Oct 8: Exam 1**
           Interior Marshes
           Florida's Wetlands: 49-69

Oct 15-17  Everglades Biodiversity in Dry and Wet seasons
           Wetland services
           Florida's Wetlands: 17-31
           **Oct 17- ICA #4:** Interior marshes, biodiversity in dry and wet seasons, and wetland services

Oct 22-24  Interior swamps
           Florida's Wetlands: 71-77; and 87-113
           Mangrove swamps
           Florida's Wetlands: 115-129

Oct 29-31  Red Tide
           **Oct 31 - ICA #5:** Interior swamps, mangrove swamps, and red tide

Nov 4      Last Day to Drop Class w/ DR

Nov 5-7    Aquifers
           Underground Rivers of Florida
           Coastal waters: estuaries and seagrasses
           Florida's Waters: 67-85

Nov 12-19  **Nov 12 - ICA #6:** Aquifers, estuaries, and seagrasses
           Sponge, rock, and reef communities
Florida’s Waters: 87-111

Nov 19-26  Sponge, rock, and reef communities cont’d.
**Nov 26 – ICA #7** Sponge, rock, and reef communities

Nov 26  Review

Nov 28-30  Thanksgiving Holiday – University Closed

Dec 3-5  Dec 3 Review
**Dec 5: Exam 2**
**Dec 5: Deadline to submit extra credit reports**

Dec 9-14  Modified class schedule TBA
Final Reflective Activity

**Note:** The schedule in the syllabus is susceptible to change due to unforeseen circumstances that may develop throughout the semester.