BIOL-650-090

Evolution and Speciation Seminar

T 05:00-06:30PM
GRICE MARINE LABORATORY 202

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Overview:

The course with follow a journal club format with a large portion of the time being devoted to discussion of relevant literature. As such, students are expected to come to class prepared and ready to participate in class discussions. As a seminar class this outline is tentative and will likely be adjusted. Given the open nature of this seminar class students may request topics of specific interest for consideration. Assignments will include brief written reviews of assigned readings in addition to one or two oral presentations on a topic relevant to the seminar.

Grading:
33% - Attendance/Participation
33% - Class assignments
33% - Class presentations

Academic Honor Code:
The academic honor code forbids lying, cheating, and plagiarism. Plagiarism is defined as presenting the work of others as your own and copying sources without citation. Plagiarism or cheating on an exam will result in an XF grade for the course. Students can find the complete Honor Code and all related processes in the Student Handbook at http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php

Absences:
Students are expected to attend all classes. Non-urgent/non-emergency situations (i.e. wedding, medical and/or counseling appointments, etc.) should be addressed by the student during times that do not interfere with the student’s course schedule, just as one would if s/he was seeking time off from an employer. It is important to note that the only individual who can authorize an excused absence is the professor of the missed class.
In the event that a student misses a class with a legitimate, documentable reason, the student may bring documentation to the Absence Memo Office located at 67 George Street (between Stern Center and Glebe Street) where the student may fill out a form with a schedule of missed class(es), dates missed, etc. A representative from the Absence
Memo Office will notify the appropriate faculty by E-mail. Any missed assignments, class work, papers, tests, etc., are to be arranged between the professor and the student. **Disability Statement:** The College will make reasonable accommodations for persons with documented disabilities. Students should apply at the Center for Disability Services / SNAP, located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsibility for notifying me, during my office hours, as soon as possible and for contacting me one week before accommodation is needed.

The schedule and procedures described on this syllabus are subject to change in the event of extenuating circumstances.

Outline for Evolution and Speciation Seminar

Week 1- Aug 24- Introduction

Week 2-Aug 31- History of Evolutionary thought

Week 3-Sept 7- Modern Synthesis of Evolutionary Theory

Week 4-Sept 14- Genetics

Week 5-Sept 21- Population Genetics

Week 6-Sept 28- Phylogenetics (reconstruction methods, models, gene and species trees)

Week 7-Oct 5- Speciation (adaptive radiation, allopatric, sympatric)

Week 8-Oct 12- Speciation (adaptive radiation, allopatric, sympatric)

Week 9-Oct 19- Fall Break

Week 10-Oct 26- Marine Speciation

Week 11-Nov 2- Species Delimination

Week 12-Nov 9- Species Delimination

Week 13-Nov 16- Presentations

Week 14- Nov 23- Presentations

Week 15- Nov 30- Last Class