EEBL 605 - Population and Quantitative Genetics

Day: TR
Time: TBD (75 min.)
Location: TBD
Number of Credits: 01 Credit

Instructors:
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E-mail will be the primary means of communication for the course. Check your email often and keep your mailbox below quota! Go to elearning.tamu.edu for course materials.

Course prerequisites: Graduate classification.

Course description: This component of the Core Sequence in Ecology & Evolutionary Biology will provide a basic overview of the fields of population and quantitative genetics. The focus will be on fundamental concepts and their applications in the research of natural populations.

Course requirements:
- Attend all lectures. Absences for previously scheduled activities will only be excused if they are communicated well in advance. If you have not discussed an absence with the instructor ahead of time, it will be considered unexcused unless proper documentation is provided. See http://student-rules.tamu.edu/rule07.
- Read all required material (original papers, review papers, and textbook chapters).
- A take-home, open-book exam

Grading: Letter grades will be assigned based as follows: leading in-class discussion: 25%; active participation: 25%; short, take-home essay exam: 50%.
Grade scale: 90-100 A; 80-89 B; 70-79 C; 60-69 D; < 60 F

Americans with Disabilities Act (ADA): The Americans with Disabilities Act (ADA) is a
federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

**Academic Integrity:** For additional information please visit: http://aggiehonor.tamu.edu. Please pay close attention to guidelines on avoiding plagiarism: http://aggiehonor.tamu.edu/Descriptions/Plagiarism.aspx.

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”

**REQUIRED TEXTBOOK**


**REQUIRED READINGS**

Several research articles will be part of the required reading of this course. These articles will illustrate the application of current, widely used methodologies in the field of population and quantitative genetics. Readings remain to be determined.

**LECTURES**

1. Genetic Variation
2. The Causes of Evolution 1
3. The Causes of Evolution 2
4. Molecular Population Genetics 1
5. Molecular Population Genetics 2
6. Genetic Architecture of Complex Traits