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BIOL464 (564) Directed Studies 2019

1 credit hour, by arrangement

Prerequisites: Successful completion of a general biology introductory course sequence;
Or permission of the professor, particularly for graduate-level credit
Department of Biological Sciences, The University of Tennessee at Martin

I. Faculty Contact Information:

Dr. Nancy Buschhaus, Professor, Department of Biological Sciences, UT Martin
124 Brehm Hall Phone: 731-881-7177 nbuschha@utm.edu
Department of Biological Sciences Office Phone: 731-881-7171

II. Program and Course Objectives:

Program Objectives: The Department of Biological Sciences has three program objectives. This course addresses the following subset of those program objectives:

- Apply the scientific process to natural phenomena

Course Objectives: Directed Studies courses allow students to engage in an intensive study of a topic in biology. In this directed studies course, students learn the scientific process as they take part in a combined bat field survey techniques, acoustic identification, or data management workshop offered by Bat Survey Solutions, LLC <https://batsurveysolutions.com/pages/schedule>. Depending on the course, students learn how to: capture and identify bats in the field, deploy bat acoustic equipment to most effectively record bat calls, analyze and manually vet acoustic results (including interpreting the results of programs that provide automatic identification of bat calls), and/or manage acoustic data sets. Students complete an online exam and write a brief (1 page) summary paper at the end of the semester to describe numbers and species of bats personally identified via both netting and acoustics at each location during their survey efforts and/or during data management sections of the course. Students completing the course for graduate credit will also complete a mini-project with their data.

III. Course Requirements and Expectations:

Requirements:

Students MUST register for, and participate in, all aspects of the workshop offered by Bat Survey Solutions LLC. Students are responsible for all costs associated with the workshop, including, but not limited to, their own travel to and from the workshop, as well as the workshop cost, itself. These costs are separate from the costs charged for tuition for this course.

- To register for the BIOL464 course as an off-campus student, please visit this link to register: https://banner7.utm.edu/prod/utmappfinder.p_start Choose the appropriate semester to begin. Contact the professor, Dr. Nancy Buschhaus, for more information about registering for the course.
- Transportation is not provided to the workshop location. The workshop has a limited number of participants. To register for the workshop, please see the Bat Survey Solutions website: <https://batsurveysolutions.com/pages/schedule>

Grading:

The grade in BIOL 464 (564) is determined from the following items:

- Participation of student in all aspects (lectures, demonstrations, hands-on data-analysis exercise, and/or in-field practicums) of the workshop.
- Passing the online bat identification exam (the exam is administered as pass/fail).
- Completion of the 1-page summary paper submitted to Canvas by one week after the conclusion of the workshop and completion of a mini-project with the data (for graduate credit).