

NREM 499: Directed Study Syllabus – Fall 2017

INSTRUCTORS

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HOURS

| | | | |
|------------------------|---|---------------------------|-----------------|
| Meetings: | R | 1:30 p.m. – 4:30 p.m. | Sherman Lab 239 |
| Office Hours (Litton): | | By appointment or drop in | Sherman Lab 240 |
| Office Hours (Wehr): | | By appointment or drop in | Sherman Lab 239 |

PREREQUISITES

- NREM 203, 292, and 301 or equivalents
- Great attitude and willingness to learn

COURSE DESCRIPTION & OBJECTIVES

This is a 3-credit undergraduate level course focused on gaining research experience. This course/credits will cover various aspects of a research project, including data collection, data entry, and literature review. The Student Learning Objectives (SLOs) are to:

- Become familiar with the different steps of a research project
- Learn how to do a literature review for a research project

EXPECTATIONS

Students: Students are expected to: (i) arrive to meetings on time; (ii) be respectful of fellow the instructor during class activities; (iii) be an active participant in class activities

Instructors: The primary goal of the instructors is to make the course useful, academically stimulating &, as much as possible, enjoyable. The instructors will: (i) be punctual, prepared, & enthusiastic for course activities; (ii) communicate clearly course objectives & assignments; (iii) listen carefully to questions & concerns

COURSE STRUCTURE & ASSIGNMENTS

This class meets 1 time/week for ~3 hours on Thursday afternoons. Deliverable assignments for the class will include:

- Photographing collected insect specimens
- Compiling insect photos into a user-friendly database
- Entering data into a Microsoft Excel datasheet compatible with RStudio, Sigma Plot, or other statistical software packages
- Compiling an annotated bibliography of research papers associated with the research project

ACCOMMODATIONS FOR DISABILITIES

If you feel you need reasonable accommodations because of the impact of a disability, please contact the KOKUA Program (<http://www.hawaii.edu/kokua/>) at 956-7511 or 956-7612 in room 013 of the QLCSS. You are also encouraged to speak with your instructors privately to discuss your specific needs if you feel comfortable doing that. We will be happy to work with you and the KOKUA Program to meet your access needs related to your documented disability.

COUNSELLING

The University of Hawaii at Manoa offers free counselling services via the Counselling and Student Development Center (CSDC; <http://manoa.hawaii.edu/counseling/>). Walk-in appointments are welcome (3rd floor of the Queen Lili‘uokalani Center for Student Services Building), or you can call the Hawaii hotline at 808-832-3100.

FINAL CAVEAT

All material on this syllabus is subject to change at the discretion of the instructors to suit the needs of the course.

COURSE SCHEDULE

| Week No. | Date | Topics |
|----------|-------|--|
| 1 | 8/24 | Course Introduction |
| 2 | 8/31 | How to photograph insects, anatomical language, equipment acquisition, and building a database |
| 3 | 9/7 | Insect photography |
| 4 | 9/14 | Insect photography |
| 5 | 9/21 | Insect photography |
| 6 | 9/28 | Insect photography |
| 7 | 10/5 | Insect photography |
| 8 | 10/12 | Insect photography |
| 9 | 10/19 | Insect photograph database completed |
| 10 | 10/26 | Building a datasheet – caveats and working with different statistical software – data entry |
| 11 | 11/02 | Data entry |
| 12 | 11/09 | Completion of data entry |
| 13 | 11/16 | Constructing an annotated bibliography – resources, basic outlines, and more |
| 14 | 11/23 | <i>No class – Thanksgiving Break</i> |
| 15 | 11/30 | Bibliography construction |
| 16 | 12/07 | Final annotated bibliography completed |