



Course Name: Thesis

Course Number: BDS 403

Course Credits: 1-16

Class Meeting Times: As arranged with the research mentor

Prerequisite and/or Corequisite: None

Description

Engage in research activities that involve generating, processing, analyzing, and/or drawing conclusions from large biological datasets. Through the research experience, acquire skills, techniques, and knowledge relevant to this field of study. In consultation with a faculty mentor, engage in research activity, and make and execute a plan for a project. Report and reflect on activities in a written thesis.

Course Content:

Will vary, based on the specific research project.

Course Specific Measurable Student Learning Outcomes

- Collect, process, analyze, and/or draw conclusions from data to address a specific research question.
- Explain research methodologies and/or analysis techniques.
- Apply skills in research methodologies and/or analysis techniques.
- Synthesize research experience by identifying lessons learned, strengths, ways to improve and relating experience to coursework and professional future.
- Effectively communicate activities in written and/or oral form.

Evaluation of Student Performance

Students are eligible to receive transcript-visible notation for undergraduate research experience after satisfying the following requirements, which are to be verified by an OSU faculty member:

- At least 30 hours (1 credit) of student engagement in activities related to the planning and execution of the research project.
- Regular attendance and participation in research team meetings designated by a faculty mentor
- Regular documentation and reflection on progress, challenges, and accomplishments. Formats of reflection include, but are not limited to, lab notebooks, short essays, visual displays, blog posts, and journal entries.
- A culminating public presentation of one's work to an audience that extends beyond that of the immediate research group. Venues of presentations include, but are not limited to, Celebrating Undergraduate Excellence spring symposium (<https://communications.oregonstate.edu/events/cue>), Summer Undergraduate Research

Symposium (<https://undergraduate.oregonstate.edu/research/presentation-opportunities/summer-undergraduate-research-symposium>), and a defense of the thesis.

- A written final thesis summarizing the main research findings, associated challenges, and broader implications of the work.
- [See document on BDS Experiential Learning.](#)

ADDITIONAL NOTE: Participation in this course can be used to satisfy, completely or partially, depending on hours engaged, the required Biological Data Sciences Experiential Learning Activity (see BDS 420).

Learning Resources: None required

Course Policies

Academic Calendar

All students are subject to the registration and refund deadlines as stated in the Academic Calendar: <https://registrar.oregonstate.edu/osu-academic-calendar>

Statement Regarding Students with Disabilities

Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at <http://ds.oregonstate.edu>. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations."

Student Conduct Expectations link: <https://beav.es/codeofconduct>

Reach Out for Success

University students encounter setbacks from time to time. If you encounter difficulties and need assistance, it's important to reach out. Consider discussing the situation with an instructor or academic advisor. Learn about resources that assist with wellness and academic success at oregonstate.edu/ReachOut. If you are in immediate crisis, please contact the Crisis Text Line by texting OREGON to 741-741 or call the National Suicide Prevention Lifeline at 1-800-273-TALK (8255)