

Program Learning Goals & Outcomes

Learn to describe relationships of component parts of living cells and organisms and appreciate knowledge of technology to assess these relationships in research

- Describe information related to cell and organism structure and function
- Discuss information related to cell and organism structure and function
- Recognition of molecular/cellular technology available to assess structure and function

Relate the scientific method in research efforts through: a. Recognition of the process of creating valid experimental hypotheses based upon learning the relevant knowledge in the area of emphasis approaches to test a hypothesis, b. Practice the use of applicable statistical analysis

- Describe experimental hypotheses
- Illustrate appropriate data analyses
- Appraise data/findings
- Summarize literature to enhance knowledge base in area of study for project proposal development
- Interpret previous literature to effectively support research presented in the thesis

Communicating and applying findings with background information via oral and written communications in the discipline to peers and to students stakeholders and/or public entities

- Communicate knowledge orally to peers and the scientific community
- Communicate knowledge to peers and the scientific community in a written format in a format acceptable for journal submission
- Develop teaching skills through development and/or presentation of course or outreach material or service as a teaching assistant or in outreach endeavors

Learn and remember the ethics of research and considering the value of one's research to the advancements of society

- Consider and practice ethical values while conducting scientific endeavors
- Consider and recognize the value of one's research to the advancement of society



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES