

Program Learning Goals & Outcomes

Learn to understand and clarify relationships of component parts of living cells and organisms and integrate knowledge of technology to assess these relationships in this learning

- Apply information related to cell and organism structure and function
- Synthesize information related to cell and organism structure and function
- Applying or understanding of molecular/cellular technology to assess structure and function

Understand and apply the scientific method in research efforts through:
a. Understanding the process of creating valid experimental hypotheses based upon soundly assessing the relevant knowledge in the area of emphasis; and testing these hypotheses, b. Understand and perform applicable statistical analyses

- Describe experimental hypotheses
- Conduct appropriate data analyses
- Interpret data/findings
- Critically analyze literature to enhance knowledge base in area of study for project proposal development
- Synthesize previous literature to effectively support research presented in the dissertation

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 that will be assessed by a critical peer review
- 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



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