



ASSESSMENT

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Molecular Biosciences PhD/MS Program-Level Student Learning Outcomes

- Students will be able to demonstrate competency in the field of advanced cellular and molecular biology through course work, experimentation in the laboratory and ability to think critically about the biological processes as well their applications in their own research.
- Students will complete a well-organized scientific study related to molecular biosciences. While accomplishing this, students will be able to think critically, develop hypotheses, review the literature, design and perform experiments, analyze and interpret data (results), write and defend a thesis/dissertation proposal.
- Students will demonstrate proficiency in state of the art techniques and apply them to their research.
- Students will be able to (a) explain and relate responsible conduct in research and (b) laboratory/animal care/bio safety rules, regulations and protocols.
- Students will develop expertise in oral and written science communication skills.
- Students will improve their public communication skills through opportunities to (a) K-12 outreach for attracting next generation of students to science and research, (b) interact with general public through discussion forums, articles in local newspaper or blogs to explain the benefits of their particular research to society and (c) show case their success and thus the success of the program to higher authority including officials in government.
- Students will participate in developing soft skills for success such as A) grant proposal writing, B) developing individual career development plan, C) networking, D) leadership skills and E) work-life balance.

