MASTER OF SCIENCE IN APPLIED LABORATORY SCIENCE AND OPERATIONS

Academic Programs

Careers in life science laboratories are constantly changing with new technologies and techniques; however, one thing remains unchanging: successful careers in the life sciences require fluency with laboratory instrumentation and an ability to interpret and analyze the data this instrumentation generates. The Master of Science in Applied Laboratory Science and Operations program provides real world experiences and training for today's life sciences labs as well as tomorrow's needs. Our curriculum combines training on instrumentation and data analysis with genuine research experience and courses in project management and laboratory administration. All of this provides graduates with the tools they need to successfully begin laboratory based careers, and then quickly rise to leadership positions. Students are trained in today's versatile skills for tomorrow's opportunities.

Program Requirements

Students must complete 36 credit hours of graduate coursework to earn a Master of Science in Applied Laboratory Science and Operations.

- Applied Laboratory Science & Operations, MS (https://catalog.baypath.edu/graduate/academic-programs/master-science-applied-laboratory-science-operations/applied-laboratory-science--operations-ms/)

Student Learning Outcomes

Graduates of the M.S. in Applied Laboratory Science and Operations program are expected to demonstrate achievement in all areas of the program. Specifically, graduates of the M.S. program are expected to:

- demonstrate proficiency with various instrumentation used in life sciences studies
- apply the scientific method to formulate a testable hypothesis and design controlled experiments to test that hypothesis.
- understand, analyze and interpret data generated by life sciences experimentation
- gain and employ managerial skills required for research laboratory project management and administration
- develop effective communication skills for the dissemination of scientific knowledge through written, oral and multimedia/technology-based formats