Program Student Learning Outcomes

College:  Arts & Science
Program:  Microbiology, PhD

Upon completion of the B.S. in Microbiology, students should be able to:

- Demonstrate overall knowledge of their field and mastery of their specific subfield of Plant Biology:
  a) Students will demonstrate sufficient knowledge of their subject in their general examinations.
  b) Students will complete research and produce a thesis/dissertation that meets the expectations of their committee.

- Identify and conduct original research appropriate for their degree.
  a) Identify an appropriate research question(s).
  b) Conduct research to test appropriate hypotheses developed from their question(s).

- Successfully defend their research to their committee.

- Effectively communicate the results of their research in an appropriate venue or in a format appropriate for their field of study.
  a) Students will write and defend a proposal appropriate for their field of study.
  b) Student will present a poster or oral presentation to professional audiences at OU.
  c) Student will present a poster or oral presentation to professional audiences at a venue outside of OU.

- Publish the results of their research in a an accepted professional journal or other forum for their field.

- Carry out their research according to accepted standards of ethics and professional behavior.
  a) Students will complete ethics and professional conduct training as required by OU.
  b) Student will design and conduct research in a professionally responsible manner.
  c) Student will prepare their thesis/dissertation in a professional, ethical manner.