ECOLOGY

Learning outcomes

Master of Science (M.S.)

1. **Know:** demonstrate knowledge of core principles and primary literature in their specialty area including comprehension of methods, results, and data analysis in the specialty area.

2. **Apply/Create:** demonstrate ability to design and carry out a major research project in the discipline, including synthesis of previous work in the field, and assembling findings into a written work.

3. **Think:** demonstrate ability to critically analyze work by others in their specialty area.

4. **Communicate:** demonstrate ability to convey scientific ideas and results in clear, concise and original writing as well as in formal oral presentations.

5. **Professional Practice:** demonstrate comprehension of and commitment to ethical standards in the discipline.

Doctor of Philosophy (Ph.D.)

1. **Know:** demonstrate knowledge of core principles and primary literature in their specialty area including comprehension of methods, results, and data analysis in the specialty area.

2. **Apply/Create:** demonstrate ability to design and carry out a major research project in the discipline, including synthesis of previous work in the field, and assembling new findings into a written work that advances understanding in the field.

3. **Think:** demonstrate ability to critically analyze work by others in their specialty area.

4. **Communicate:** demonstrate ability to convey scientific ideas and results in clear, concise and original writing as well as in formal oral presentations.

5. **Professional Practice:** demonstrate comprehension of and commitment to ethical standards in the discipline.

6. **Teach:** demonstrate the ability to teach key concepts of the discipline to students.