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.
- 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.