

MOLECULAR, CELLULAR AND INTEGRATIVE BIOSCIENCES

Learning Outcomes

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