ENVR 400: **Learning Outcomes**

**Overarching Outcomes**:

1.) ***Bridging theory and practice****:*

Students will apply scientific theory and disciplinary knowledge to contemporary environmental challenges that exist within community organizations.

2**.) *Bridging university and community:***

Students will build relationships with community organizations to do meaningful scientific work that extends beyond the university.

3.) ***Bridging values and action:***

Students will have the opportunity to use their scientific education to contribute to environmental organizations that work for the betterment of social, economical, and ecological environments.

*4.)* ***Bridging education and experience:***

Students will have the opportunity to reflect on and make meaning of the expertise of community members and peers.

**Sub-Outcomes**:

* Students will demonstrate an understanding of evaluation, synthesis and conclusion processes that are developed using environmental information from a variety of information sources and viewpoints.
* Students will learn to apply a subset of major technical tools used in environmental science (e.g., models, statistical analysis, network monitoring, population surveys).
* Students will formulate and ask multiple relevant and testable research questions about the environment, and conduct an investigation designed to answer such questions.
* Students will communicate a coherent synthesis and analysis of environmental information, orally, graphically, and in writing.
* Students will acquire substantive knowledge in at least one area of environmental science.
* Students will collaborate on a community-led research project in multidisciplinary teams.
* Students will demonstrate an understanding of best practices when working in collaboration with community partners.
* Students will examine their own perspectives on what it means to be a scientist and the role of scientists in society.
* Students will organize and discuss their own individual learning goals and processes, tracking their learning throughout the course.
* Students will recognize the multiple methods of communicating information and choose an appropriate method to communicate projects findings to a variety of audiences.