M.S. in Science Education

Learning Outcomes

- Students will know, use, and interpret scientific explanations of the natural world that are relevant to teaching science in the middle schools.
- Students will develop the ability to generate and evaluate scientific evidence and explanations.
- Students will be able to explain how scientific knowledge is based on the study of natural phenomena, provides explanations, and makes testable predictions that are consistent with known evidence.
- Students will advance in their skills in quantitative reasoning and quantitative applications for understanding natural phenomena.
- Students will have enhanced skills in a broad array of technology, including computers, and have effective techniques for implementing them in the classroom.
- Students will be knowledgeable about recent research on how students learn science, including students with special needs, and capable of applying it to classroom practice.
- Students will be aware of the context of science education, including the role of state and national standards.
- Students will be capable of analyzing, evaluating, and applying curricular materials and resources.
- Students will be aware that science is done as part of a community.