Bachelor of Science in Bioinformatics

Program Educational Objectives and Student Outcomes

Program Educational Objectives

The graduates of the Bioinformatics program will have the following characteristics 3 to 5 years after graduation:

- Establish a successful career utilizing their education in bioinformatics or engage in advanced studies.
- Communicate effectively in both written and oral forms.
- Engage in lifelong learning to stay current with their profession as it changes.
- Demonstrate professional competence, integrity and responsibility in diverse work environments.

Student Outcomes

By the time of graduation, student outcomes should include the following.

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.