



**College of Sciences  
Academic Learning Compacts**

**Physics, B.S.**

**Discipline Specific Knowledge, Skills, Behavior and Values**

1. Physics BS program graduates will be able to know and use the concepts and knowledge of mechanics, thermal physics, optics, and Waves.
2. Physics BS program graduates will be able to know and use the concept and knowledge of Electricity and magnetism
3. Physics BS program graduates will be able to know and use the concepts and knowledge of Quantum Mechanics, Atomic Physics, and Nuclear and Particle Physics.
4. Physics BS program graduates will be able to demonstrate the ability to use appropriate laboratory techniques to study physical phenomenon.

**Critical Thinking**

5. Physics BS program graduates will be able to demonstrate the ability to gather and evaluate information, including library literature search and the use of technology in searching information.
6. Physics BS program graduates will be able to conduct physics research.

**Communication**

7. Physics BS program graduates will be able to demonstrate the ability to communicate scientific information orally in front of faculty and peers or in a professional setting, such as scientific conference or professional meeting.
8. Physics BS program graduates will be able to demonstrate the ability to effectively communicate scientific information in writing through lab reports or in a professional setting, such as scientific or professional journals.

**Assessment of Physics, B.S. Outcomes**

These outcomes will be assessed using a variety of assessment methods, including:

- projects
- experiments and reports
- research papers
- oral and written presentations
- exams/tests
- journals