

Academic Learning Compact

Degree Program: Physics (BS) (CIP Code 40.0801)

Intended Program Student Learning		Direct and Indirect Measures	
Outcomes	Academic Learning Compact(s)	Direct Method of	Indirect Method of
Outcomes		Assessment	Assessment
Students will be able to apply	Critical Thinking, Discipline Specific Knowledge	Direct - Course	Indirect -
basic theoretical and		Embedded	Departmental
experimental skills in the main		Assessment	Survey
areas of physics such as		Direct - Exam (Item	
classical mechanics, quantum		Analysis)	
mechanics, and			
electromagnetism and			
mathematical tools such as			
vector algebra, calculus, and			
differential equations			
necessary for physics research.			

Student will demonstrate collaboration skills (i.e., responsible and effective communication with team members) in physics classroom as well as lab settings.	Communication	Direct - Reflective Journals	Indirect - Departmental Survey
Students will conduct community outreach to educate the public about physics research and to recruit local-area high schools into the STEM areas.	Communication, Discipline Specific Knowledge	Direct - Activity Record	Indirect - Satisfaction Survey
Students will be able to effectively disseminate physics research work as poster or talks in (departmental, regional as well as national) scientific meetings and in writing for peer review publications.	Communication, Discipline Specific Knowledge	Direct - Course Embedded Assessment Direct - Other	Indirect - Departmental Survey
Student will actively engage in supervised research in oncampus physics labs and in summer research programs.	Discipline Specific Knowledge	Direct - Activity Record	Indirect - Departmental Survey