

Alignment Matrix — For each stated student learning outcome, where does the student have the opportunity to learn the outcome and where is student achievement of the outcome assessed

SLO/Required Courses/experiences	PHYS 122	PHYS 123	PHYS 223	PHYS 224	PHYS 325	PHYS 506	PHYS 522	PHYS 532	PHYS 633	PHYS 636	PHYS 662	PHYS 664	PHYS 6xx	PHYS 709
Physics SLOs	†	†	†§	†§	†§	†	†	†			†			
Apply knowledge of experimental physics					A	A				A			X¶	
Apply knowledge of theoretical physics					X	X	X	X	X		X	X	X¶	X
Demonstrate skill in collecting, recording and analyzing data			X	X	A	A				A			X¶	
Understand career options	A	A											X¶	
Communicate information effectively, in both written and verbal form			X	X	X	A				A			X¶	
Demonstrate an understanding of one advanced physics topic						X	X	X	X	X	X	X	X¶	X
Demonstrate an ability to apply advanced knowledge of quantum mechanics					X						A		X¶	A
Demonstrate an appreciation of good ethical standards	X	X	X	X	X	X				X			X¶	
University SLOs														
Knowledge					A	A	X	X	X	A	X	X	X¶	X
Critical thinking			X	X	A	A	X	X	X	A	X	X	X¶	X
Communication	X	X	X	X	X	A				A			X¶	
Diversity	A	A	X	X									X¶	
Academic and professional integrity	X	X	X	X	X	X				X			X¶	

Place an “X” for courses or experiences in which students have the opportunity to learn the outcome.

Place an “A” for courses or experiences in which student performance is used for program level assessment of the outcome.

All of the above courses are required for the BS degree

† - indicates requirements requirements for the BA degree

§ - indicates requirements for the physics minor

¶ - 6xx is an elective and may or may not meet the stated SLO dependent upon the particular elective taken