

CAS Curriculum Program Learning Outcomes Matrix

Program: Physics

Date Completed: April 2014

Program Learning Outcomes (PLO)	PHYS 140/140L	PHYS 141/141L	PHYS 270	PHYS 270L	PHYS 350	PHYS 352
1. Knowledge: The student will demonstrate knowledge and comprehension in several basic and applied fields of Physics.	A	A	A,B	B	A	A,C
2. Problem Solving: The student will demonstrate problem-solving skills in several basic and applied fields of Physics.	A	A	A	B	A	A
3. Laboratory Work: The Student will demonstrate good experimental technique, including proper use of equipment, performance of experiment and analysis of results. Furthermore the student will assess experimental uncertainty and make meaningful comparisons between experiment and theory and thereby more fully understand their observations of physical phenomena.	B, E- Electronic Notebook	B, E- Electronic Notebook	B	B		
4. Written Communications: The student will demonstrate effective written communication skills through clear and concise problem solving, reports written to satisfy the requirements of a variety of laboratory courses and topics, and acceptable research papers.	B, E- Electronic Notebook	B, E- Electronic Notebook	A,B	B		
5. Oral Communications: The student will demonstrate effective oral communication skills in oral presentations in courses, seminars, and at scientific meetings.			A,B			C
6. Professional Development: The student will demonstrate the protocols of the professional physicist by attending meetings and giving papers.						

Method Key:

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)	PHYS 140/140L	PHYS 141/141L	PHYS 270	PHYS 270L	PHYS 350	PHYS 352
A=Quizzes/Exams						
B=Papers						
C=Presentations						
D=Portfolios						
E=Other Please Define						

CAS Curriculum Program Learning Outcomes Matrix

PHYS 141/141L	PHYS 371	PHYS 372	PHYS 447	PHYS 448/448	PHYS 448L	PHYS 493/494	CMPSCI34	ENGR 253L/254L	MATH 114	MATH 221/222	MATH 341
------------------	----------	----------	----------	-----------------	--------------	-----------------	----------	-------------------	-------------	-----------------	-------------