

Program Assessment Plan for Pre-Engineering

Program Mission	The Pre-Engineering program at The University of Scranton will be personally focused on the needs of each student, centered on core liberal studies consistent with Jesuit principles of higher education, and grounded in the intellectual and faith traditions of the Catholic Church. This two-year, non-degree program provides students with a broad experience in general education courses and a solid technical foundation in engineering, mathematics, computing and the physical sciences to prepare students to transfer to another university to complete their desired field of study, or to remain here at The University of Scranton if they chose to major in Electrical Engineering or Computer Engineering.
Curriculum	The curriculum provides more than one opportunity for students to meet the Program Learning Objectives
Key Courses And Assignments	ENGR 150 (I), PHYS 140 (I), PHYS 140L (I), PHYS 141 (I), PHYS 141L, ENGR 253L, ENGR 254LMajor/Cognate Electives such as Phys 270/270L, E/CE 240, EE 241/L (R,A), ENGR 250, ENGR 352

Program Learning Outcomes to be Assessed

PLO	1). An ability to apply knowledge of mathematics, science, and engineering.	ILOs to which the PLOs map	1,4
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Both direct and indirect		
Where in the program does the evidence reside?	Department files stored in LSC 235		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	No special tools necessary		
Benchmarks	TBD		
ListOfSources	Aggregate scores on embedded questions; course exit survey		

Program Learning Outcomes to be Assessed

PLO	2).An ability to design and conduct experiments as well as to analyze and interpret data.	ILOs to which the PLOs map	1,2
Year:	Year 1 Spring 2015		
Is the evidence Direct or Indirect	Both direct and indirec		
Where in the program does the evidence reside?	Department files stored in LSC 235		
What tools are necessary to collect evidence? (Rubics, Portfolio,Embedded Exam Questions etc.)	No special tools necessary		
Benchmarks	TBD		
ListOfSources	Rubric to score samples of student work, aggregate scores on embedded questions, student survey		

Program Learning Outcomes to be Assessed

PLO	3).An ability to work effectively in a group to accomplish an objective, and make significant contribution to its outcome	ILOs to which the PLOs map	
Year:	Year 1 Spring 2015		
Is the evidence Direct or Indirect	Both direct and indirec		
Where in the program does the evidence reside?	Department files stored in LSC 235		
What tools are necessary to collect evidence? (Rubics, Portfolio,Embedded Exam Questions etc.)	No special tools required		
Benchmarks	TBD		
ListOfSources	Rubric; course exit survey		

Program Learning Outcomes to be Assessed

PLO	4).An ability to communicate effectively.	ILOs to which the PLOs map
Year:	Year 1 Spring 2015	
Is the evidence Direct or Indirect	Both direct and indirec	
Where in the program does the evidence reside?	Department files stored in LSC 235, D2L files	
What tools are necessary to collect evidence? (Rubics, Portfolio,Embedded Exam Questions etc.)	No special tools required	
Benchmarks	TBD	
ListOfSources	Rubric to score samples of student work; course exit survey	

Program Learning Outcomes to be Assessed

PLO	5).The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental,	ILOs to which the PLOs map	4
Year:	Year 3 AY 2016-17		
Is the evidence Direct or Indirect	Both direct and indirec		
Where in the program does the evidence reside?	Department files stored in LSC 235		
What tools are necessary to collect evidence? (Rubics, Portfolio,Embedded Exam Questions etc.)	No special tools required		
Benchmarks	TBD		
ListOfSources	Rubric to score samples of student work; aggregate scores on embedded questions; course exit survey		

Program Learning Outcomes to be Assessed

PLO	6).An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	ILOs to which the PLOs map	1,3
Year:	Year 1 Spring 2015		
Is the evidence Direct or Indirect	Both direct and indirec		
Where in the program does the evidence reside?	Department files stored in LSC 235		
What tools are necessary to collect evidence? (Rubics, Portfolio,Embedded Exam Questions etc.)	No special tools required		
Benchmarks	TBD		
ListOfSources	Aggregate scores on embedded questions; course exit survey		