Mathematical Sciences Institutional (ILO), Program (PLO), and Course (SLO) Alignment

Use the checklists provided to evaluate your SLO statements. Please add or revise PLO and SLO statements directly on this form.

Or, if you prefer to make changes on the electronic version contact your Facilitator Junko Forbes, or Angie Snider in your Division Office, to have the grid emailed to you. When SLO, PLO and ILO alignment changes are made, please make changes in red.

Return the completed grid to your Facilitator by Friday, Nov 8th.

	Number of Courses:	Submitted by: Jill Evensizer	
Program: Pre-Engineering	2	1.26.13	Ext. 5210

ILO Rating Rubric

- **4** A major focus of the course. Direct instruction is provided. Students are evaluated multiple times (and possibly in various ways) throughout the course.
- **3** An important part of the course. Some direct instruction is provided and students are evaluated on the concepts once or twice within the course.
- **2-** Only a minor focus of the course. Some instruction is given in the area but students are not formally evaluated on the concepts.
- 1- May be tangentially part of the class, but is not directly taught or evaluated or is not part of the course at all.

Institutional	I. Content	II. Critical, Creative, and	III. Communication	IV. Professional and	V. Community	VI. Information ar				and		
Learning Outcomes	Knowledge	Analytical Thinking	and Comprehension	Personal Growth	and Collaboration	Technology Liter			teracy			
(ILOs)			·			0,				,		
Overall Program	3	4	3	2	2	2						
Rating												
Rate each from 1-4												
based on above rubric												
Program Level SLOs A minimum of 3 and maximum of 6 PLOS. There are, however, exceptions. For example, if department faculty					ILOs to PLOs Alignment							
have developed one or two comprehensive PLO statements that reflect the program mission and covers the major components and the					(Rate 1-4)							
· ·	· · · · · · · · · · · · · · · · · · ·					1	Ξ	Ш	IV	V	VI	
	overarching goals of the program, they may present them to their Dean and Facilitator for approval as is. In cases where the facilitator or											
dean or faculty disagree with the rigor of the statements, the PLO statement will be forwarded to the Assessment of Learning Committee												
(ALC) for review and recommendations.												
Include PLO #, Short Title, and PLO statement. Example: PLO #2 Ethics and Professionalism												

(ALC) for review and recommendations.

Include PLO #, Short Title, and PLO statement. Example: PLO #2 Ethics and Professionalism

PLO #1 Academic Success Strategies
Students will analyze the preparation, assess the cognitive skills, and apply academic success strategies required in engineering.

PLO #2 Solving Applied Problems in Engineering
Students will apply principles from mathematics, physics, and chemistry to solve applied problems in engineering.

Course Level SLOs A minimum of 3 and maximum of 6 SLOs. There are, however, exceptions. For example, if department faculty have developed one or two comprehensive SLO statements that cover the major components and the overarching goals of the course, they may present them to their Dean and Facilitator for approval as is. In cases where the facilitator or dean or faculty disagree with the rigor of the statements, the SLO statement will be forwarded to the Assessment of Learning Committee (ALC) for review and recommendations. Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers.		Course to PLO Alignment Mark with an X if you will use the course when assessing your PLO.			ILOs to Course SLOs Alignment (Rate 1-4)				
		P2	Р3	I	II	Ш	IV	V	VI
ENGR 1 SLO #1 Introduction to Engineering SLO #1Analyze Engineering Profession Analyze the preparation, training, practice, obligations, and ethics required in the engineering profession.				3	4	3	3	2	3
ENGR 1 Introduction to Engineering SLO #2 Apply Academic Success Strategies: Assess the cognitive skills and apply academic success strategies related to the study of engineering.	х			3	4	3	3	2	2
ENGR 9 Engineering Mechanics – Statistics: SLO #1: Solve Equilibrium Problems Solve equilibrium problems in two and three dimensions using algebraic or trigonometric methods.		х		3	4	2	2	2	2
ENGR 9 Engineering Mechanics – Statistics: SLO #2 Use Diagrams to Solve Problems Draw diagrams and determine distributed forces, shear forces, and moments in beams.		х		3	4	3	2	2	2