Industry and Technology 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 Facilitators (Pati Fairchild or SueEllen Warren) or your Division Administrative Assistant (Denise Spurlock) 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

Program: Automation, Robotics, and Manufacturing	Number of Courses:	Semester Updated:	Submitted by: E. Carlson
Engineering Technology (ETEC), Manufacturing Technology (MTEC), and	36	Fall 2012	
Machine Tool Technology (MTT)			
	"OD 1' D 1 '		

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 Learning Outcomes (ILOs)	I. Content Knowledge	II. Critical, Creative, and Analytical Thinking	III. Communication and Comprehension	IV. Professional and Personal Growth	V. Community and Collaboration	VI. Information and Technology Literacy
Overall Rating Rate each from 1-4 based on above rubric.	4	3	1	3	1	2

ETEC Technology Program Level SLOSA minimum of 3 and maximum of 6 PLOS. There are, however, exceptions. For	1	ILOs t	o PLO : (Rate	s Alig i e 1-4)	nmen	t
example, if department faculty have developed one or two comprehensive PLO statements that reflect the program mission and covers the major components and the 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	I	II	III	IV	V	VI
ETEC PLO #1 Phases of Product Lifecycles Upon completion of the courses in this discipline, the student will be able to identify the phases of a product lifecycle.	4	4	2	1	1	2
ETEC PLO #2 New Product Tests Upon completion of the courses in this discipline, the student will be able create a list of tests that a new product should be subjected to.	3	4	2	1	1	1
ETEC PLO #3 Solving Engineering Problems Students will apply principles from mathematics, physics, and chemistry to solve applied problems in engineering.	3	4	2	1	1	1

EC Course Level SLOs Ininimum of 3 and maximum of 6 SLOs. There are, however, exceptions. For example, if department faculty re developed one or two comprehensive SLO statements that cover the major components and the exarching goals of the course, they may present them to their Dean and Facilitator for approval as is. In less where the facilitator or dean or faculty disagree with the rigor of the statements, the SLO statement be forwarded to t		Cours	se SLC	Os to Os Alig e 1-4)	nmer	nt			
he 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.	P1	P2	Р3	ı	II	Ш	IV	V	VI
ETEC 10 Principles of Engineering Technology: SLO #1 Careers Students will research engineering and engineering technology careers and create a report as directed in activity 1.3A ETEC 10 Principles of Engineering Technology: SLO #2			Х	4	1	2	3	1	2
ETEC 10 Principles of Engineering Technology: SLO #3									
ETEC 10A Principles of Engineering Technology I: SLO #1 Careers Students will research engineering and engineering technology careers and create a report as directed in activity 1.3A. ETEC 10A Principles of Engineering Technology I: SLO #2			Х	4	1	2	3	1	2
ETEC 10A Principles of Engineering Technology I: SLO #3									
ETEC 10B Principles of Engineering Technology II: SLO #1 Marble Sorter Students will build an automated marble sorter as directed by activity 4.5K			х	3	4	1	1	1	1
ETEC 10B Principles of Engineering Technology II: SLO #2									
ETEC 10B Principles of Engineering Technology II: SLO #3									

ETEC 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	Mark v will u	urse to llignme with an use the o when sing you	nt X if you course		ignment 4)					
will be forwarded to t he 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.	P1	P2	P3	ı	II	Ш	IV	V	VI	
ETEC 12 Introduction to Engineering Design: SLO #1 Two and Three-Dimensional Models Given a simple set of design constraints, the student shall be able utilize AutoCad Inventor software to produce a design package including two-dimensional drawings and three-dimensional models.	Х	х	Х	3	4	1	1	1	1	
ETEC 12 Introduction to Engineering Design: SLO #2										
ETEC 12 Introduction to Engineering Design: SLO #3										
ETEC 12A Introduction to Engineering Design I: SLO #1 Two and Three-Dimensional Models Given a simple set of design constraints, the student shall be able utilize AutoCad Inventor software to produce a design package including two-dimensional drawings and three-dimensional models.	Х	х	Х	3	4	1	1	1	1	
ETEC 12A Introduction to Engineering Design I: SLO #2										
ETEC 12A Introduction to Engineering Design I: SLO #3										
ETEC 12B Introduction to Engineering Design II: SLO #1 Two and Three-Dimensional Models Given a simple design problem statement and set of design constraints, the student shall be able utilize AutoCad Inventor software to produce a design package including two-dimensional drawings and three-dimensional models	Х	х	Х	3	4	1	1	1	1	
ETEC 12B Introduction to Engineering Design II: SLO #2										
ETEC 12B Introduction to Engineering Design II: SLO #3										

ETEC Technology Course Level SLOS A minimum of 3 and maximum of 6 SLOs. There are, however, exceptions. For example, if department	Mark v		nt X if you		Core Competencies to Courses Alignment					
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		ise the o when sing you		I	II	III	IV	V	VI	
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.	P1	P2	Р3							
ETEC 14 Electronics for Engineering Technologists: SLO #1 Logic Equivalencies Students will be able to use NAND and NOR Gates to configure and test logic equivalencies of: NOT, AND, OR, Exculsive OR and Exclusive NOR logic functions.			х	3	4	1	1	1	1	
ETEC 14 Electronics for Engineering Technologists: SLO #2 Logic Circuit Using discrete TTL or CMOS Logic Gates to design, construct, and demonstrate a logic circuit which displays the students Birth Date using three toggle switches, various logic gates, and a single seven segment common anode LED display			х	3	4	1	1	1	1	
ETEC 14 Electronics for Engineering Technologists: SLO #3										
ETEC 14A Electronics for Engineering Technologists I: SLO #1 Logic Equivalencies Students will be able to use NAND and NOR Gates to configure and test logic equivalencies of: NOT, AND, OR, Exculsive OR and Exclusive NOR logic functions.			Х	3	4	1	1	1	1	
ETEC 14A Electronics for Engineering Technologists I: SLO #2										
ETEC 14A Electronics for Engineering Technologists I: SLO #3										
ETEC 14B Electronics for Engineering Technologists II: SLO #1 Logic Circuits Using discrete TTL or CMOS Logic Gates to design, construct, and demonstrate a logic circuit which displays the students Birth Date using three toggle switches, various logic gates, and a single seven segment common anode LED display			Х	3	4	1	1	1	1	
ETEC 16 Computer Integrated Manufacturing: SLO #1 Solid Modeling Students will measure and solid model a provided assembly.			х	3	4	1	1	1	1	
ETEC 16 Computer Integrated Manufacturing: SLO #2										
ETEC 16 Computer Integrated Manufacturing: SLO #3										

ETEC Technology Course Level SLOS A minimum of 3 and maximum of 6 SLOs. There are, however, exceptions. For example, if department	Al Mark w		t Lif you	Core Competencies t Courses Alignment								
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		e the co when ing youi		I	П	III	IV	V	VI			
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.	P1	P2	Р3									
ETEC 16A Solid Modeling SLO #1 Students will measure and solid model a provided assembly.			Х	3	4	1	1	1	1			
ETEC 16A Solid Modeling SLO #2												
ETEC 16A Solid Modeling SLO #3												
ETEC 16B Computer Integrated Manufacturing II: SLO #1 Robot Arm Students program a robot arm to palletize parts.			х	3	4	1	1	1	1			
ETEC 16B Computer Integrated Manufacturing II: SLO #2												
ETEC 16B Computer Integrated Manufacturing II: SLO #3												
ETEC 18 Engineering Design and Development: SLO #1 Engineering Notebook Students will develop and maintain an engineering notebook. This legal document contains all the information that is relevant to its purpose of original design. It includes contact information, correspondence, telephone logs, sketches and drawings, reference citations, collected data, and a chronological listing of the events dates and time, connected to the journal's purpose. Documentation is a vital part of engineering. In the case of liability suits, good documentation has kept many engineering firms out of court because it proved there was no wrong doing on their part.	x		X	2	2	3	3	3	2			
ETEC 18 Engineering Design and Development: SLO #2 New Engineering Concept The student will work as part of an engineering group to develop an engineering concept that is new in nature, safe, cost effective, reliable, and could be mass produced.	х	Х	Х	3	4	2	3	3	3			
ETEC 18 Engineering Design and Development: SLO #3												

ETEC Technology Course Level SLOS A minimum of 3 and maximum of 6 SLOs. There are, however, exceptions. For example, if department	Al Mark w		t if you			•	mpetencies to es Alignment				
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		e the co when ing your		ı	П	III	IV	V	VI		
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.	P1	P2	Р3								
ETEC 18A Engineering Design and Development I: SLO #1 Engineering Notebook Students will develop and maintain an engineering notebook. This legal document contains all the information that is relevant to its purpose of original design. It includes contact information, correspondence, telephone logs, sketches and drawings, reference citations, collected data, and a chronological listing of the events dates and time, connected to the journal's purpose. Documentation is a vital part of engineering. In the case of liability suits, good documentation has kept many engineering firms out of court because it proved there was no wrong doing on their part.	х		х	2	2	3	3	3	4		
ETEC 18A Engineering Design and Development I: SLO #2 New Engineering Concept The student will work as part of an engineering group to develop an engineering concept that is new in nature, safe, cost effective, reliable, and could be mass produced.	х	х	х	3	4	3	3	3	3		
ETEC 18A Engineering Design and Development I: SLO #3											
ETEC 18B Engineering Design and Development II: SLO #1 New Engineering Concept The student will work as part of an engineering group to develop an engineering concept that is new in nature, safe, cost effective, reliable, and could be mass produced.	х	х	х	3	4	2	3	3	3		
ETEC 18B Engineering Design and Development II: SLO #2											
ETEC 18B Engineering Design and Development II: SLO #3											

MTEC Technology Program Level SLOs A minimum of 3 and maximum of 6 PLOS. There are, however For example, if department faculty have developed one or two comprehensive PLO statements that reflect the program of the pr	progra	m mis			Cour	se SLC	Os to Os Alig e 1-4)		nt				
and covers the major components and the overarching goals of the program, they may present them to their De			DI O	1	Ш	III	IV	V	VI				
Facilitator for approval as is. In cases where the facilitator or dean or faculty disagree with the rigor of the state 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	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								2				
MTEC PLO #1 Digital and Analog Sensor Technologies Upon completion of the courses in this disciplin will be able to identify different digital and analog sensor technologies.	ne, the	e stud	lent										
MTEC PLO #2													
MTEC PLO #3													
MTEC Technology Course Level SLOS A minimum of 3 and maximum of 6 SLOs. There are, however, exceptions. For example, if department faculty	Mar	urse to Alignme	e nt an X if			Core Competencies Courses Alignmen							
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.	со	will us ourse w sessing PLO.	hen	I	II	III	IV	V	VI				
Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers.	P1	P2	Р3										
MTEC 70 Basic Robotics: SLO #1 Four-Block Flow Chart Students correctly draw a 4 block flowchart of a computer/robot including: input, processor, memory, and output.	х			4	2	1	2	2	2				
MTEC 70 Basic Robotics: SLO #2													
MTEC 70 Basic Robotics: SLO #3													
MTEC 75 Integrated Robotic and Automated Technologies: SLO #1 Programming a Robot Students will	X			4	2	1	2	2	2				
correctly program a robot to travel 5 feet turn 180 degrees and return to the start point.	^			7									
MTEC 75 Integrated Robotic and Automated Technologies: SLO #2													
	1		1										

MTEC Technology Course Level SLOS A minimum of 3 and maximum of 6 SLOs. There are, however, exceptions. For example, if department faculty	Mar	urse to Alignme k with a	nt in X if	Courses Alignment										
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.	со	you will use the course when assessing your PLO.			II	III	IV	V	VI					
Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers.	P1	P2	Р3											
MTEC 75A Integrated Robotic and Automated Technologies I: SLO #1 Programming a Robot Students will correctly program a robot to travel 5 feet turn 180 degrees and return to the start point.	Х			4	2	1	2	2	2					
MTEC 75A Integrated Robotic and Automated Technologies I: SLO #2														
MTEC 75A Integrated Robotic and Automated Technologies I: SLO #3														
MTEC 75B Integrated Robotic and Automated Technologies II: SLO #1 Programming a Robot Students will														
correctly program a robot to travel a total of 10 feet. Within the travel the robot will reach maximum velocity by smoothly accelerating and deaccelerating.	Х			4	2	1	2	2	2					
MTEC 75B Integrated Robotic and Automated Technologies II: SLO #2														
MTEC 75B Integrated Robotic and Automated Technologies II: SLO #3														

MTT Technology Program Level SLOs A minimum of 3 and maximum of 6 PLOS. There are, however example, if department faculty have developed one or two comprehensive PLO statements that reflect the program that makes and the example of the program that makes program that makes program they have proceed them.	rograr	n mis	sion a	and		Cours	e SLO	os to Os Alig e 1-4)	nmen	t
covers the major components and the overarching goals of the program, they may present them to their Dea approval as is. In cases where the facilitator or dean or faculty disagree with the rigor of the statements, the 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 Professionals.	PLO s				_	II	III	IV	V	VI
MTT PLOI #1 Prints and Shop Calculations Upon completion of a course of study in Machine Tool Technolog demonstrate an ability to read prints and be proficient at shop calculations.	y, a st	uden	t will		4	3	1	2	2	2
MTT PLO #2 Trouble Shooting Upon completion of a course of study, a Machine Tool Technology student wis shoot machine tool problems using proper set up technique, RPMs and feed calculations.	ll be a	ble to	o trou	ble	4	3	1	2	2	2
MTT PLO #3 Basic Safety Upon a completion of a course of study in Machine Tool Technology, a student will basic machine tool operations including lathe, milling, grinding machines and hand tools.	pract	ice sa	ıfety i	n	4	3	1	2	2	2
MTT PLO #4 Preparing for the Job Market Upon a completion of a course of study, Machine Tool Technology compete for jobs in the machine tool technology job market	y will s	succe	ssfully	У	4	2	1	2	2	2
MTT 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	Mari wil	Align k with I use ti wh	to PLC ment an X if he cour een your P	you rse		Cours	e SLO	os to os Alig e 1-4)	lignment	t
review and recommendations. Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers	P1	P2	Р3	P4	I	П	III	IV	V	VI
MTT 2 Manufacturing Print Reading SLO #1: Orthographic Orientation. Student will correctly sketch a part in orthographic orientation.	х				4	3	1	2	2	2
MTT 2 Manufacturing Print Reading SLO #2: Demonstrate basic understanding or Multi-View Orthographic drawings, including part visualization and interpretation and the mechanics of: dimensioning, tolerancing and drawing.	х				4	3	1	2	2	2
MTT 2 Manufacturing Print Reading SLO #3 Total Position Tolerance Gain a basic understanding of GD&T (Geometric Dimensioning and Tolerancing) practices. Presented with a Feature Control Frame, students will calculate total positional tolerance of a hole utilizing Maximum Material Condition, Least Material Condition and Regardless of Feature Size Modifiers.	х				4	2	1	2	2	4

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review and recommendations. Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers	P1	P2	Р3	P4	I	П	Ш	IV	V	VI		
MTT 10A Introduction to CAD/CAM: SLO #1 High Speed Steel End Mill Student will calculate the correct rotations per minute (RPM) for a high speed steel end mill using the correct cutting speed and end mill diameter.		х			4	4	4	2	2	4		
MTT 10A Introduction to CAD/CAM: SLO #2												
MTT 10A Introduction to CAD/CAM: SLO #3												
MTT 10B Computer Numerical Control Programming: SLO #1 Inputting a Program Student will input a program in to a Computer Numerical Control (CNC) machine.				Х	4	4	4	2	2	4		
MTT 10B Computer Numerical Control Programming: SLO #2												
MTT 10B Computer Numerical Control Programming: SLO #3												
MTT 10J Numerical Control Graphics Programming: SLO #1 Geometric Elements Student will create geometric elements such as points, lines, and circles.				Х	4	4	4	2	2	4		
MTT 10J Numerical Control Graphics Programming: SLO #2												
MTT 10J Numerical Control Graphics Programming: SLO #3												

MTT 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	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)						
review and recommendations. Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers	P1	P2	Р3	P4	I	П	III	IV	V	VI	
MTT 10K 3D Numerical Control Graphics Programming: SLO #1 Creating a 3D Solid Model Student will correctly create a 3D solid model in CAD software and practice roughing the 3D surface using CAM software.	х	х		х	4	2	1	2	2	2	
MTT 10K 3D Numerical Control Graphics Programming: SLO #2											
MTT 10K 3D Numerical Control Graphics Programming: SLO #3											
MTT 16 General Metals: SLO #1 HSS Cutting Speed and Mill Diameter Student will calculate the correct rotations per minute (rpm) for a high speed steel end mill using the correct cutting speed and end mill diameter.	х	Х	X		4	2	1	2	2	2	
MTT 16 General Metals: SLO #2											
MTT 16 General Metals: SLO #3											
MTT 40 Machine Shop Calculations: SLO #1 HSS Setting the Speed Student will calculate the correct feed per minute for a high speed steel (HSS) end mill using the correct feed per tooth (CL), rotations per minute (RPM), and number of teeth. There is no MTT 40 in the catalog.	х	Х			4	2	1	2	2	2	
MTT 40 Machine Shop Calculations: SLO #2											
MTT 40 Machine Shop Calculations: SLO #3											

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review and recommendations. Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers	P1	P2	Р3	P4	I	П	III	IV	V	VI	
MTT 46 Basic Machine Tool Operation: SLO #1 HSS Setting the Milling Machine Student will calculate the correct rotations per minute (rpm) for a high speed steel end mill using the correct cutting speed and end mill diameter. Then the student will demonstrate setting the speed of the milling machine.	х	Х			4	2	1	2	2	2	
MTT 46 Basic Machine Tool Operation: SLO #2											
MTT 46 Basic Machine Tool Operation: SLO #3											
MTT 47 NIMS Level I Credential Preparation SLO #1 HSS Setting the Milling Machine Student will					4	2	1	2	2	2	
calculate the correct rotations per minute (rpm) for a high speed steel end mill using the correct cutting speed and end mill diameter. Then the student will demonstrate setting the speed of the milling machine.	Х										
MTT 47 NIMS Level I Credential Preparation SLO #2											
MTT 47 NIMS Level I Credential Preparation SLO #3											
MTT 101 Introduction to Conventional and CNC Machining: SLO #1 Measuring and Recording Dimensions Given a ground steel block of known and verified dimensions, measure and record the three dimensions of the block using a micrometer to a precision of .001 inches.	х	X			4	2	1	2	2	2	
MTT 101 Introduction to Conventional and CNC Machining: SLO #2 Blue Prints Given a Blue Print student will use all manufacturing equipment available to manufacture the project on the Blue Print to noted specifications.	х				4	2	1	2	2	2	
MTT 101 Introduction to Conventional and CNC Machining: SLO #3											

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review and recommendations. Include SLO #, Short Title, and SLO Statement Example: Math 170 SLO #3 Vectors and Complex Numbers	P1	P2	Р3	P4	I	Ш	III	IV	V	VI	
MTT 103 Conventional and CNC Turning: SLO #1 Lathe Dimension Students will turn a part on the lathe to a given drawing dimension to an accuracy of +/001 inches.	Х	Х	Х		4	2	1	2	2	2	
MTT 103 Conventional and CNC Turning: SLO #2											
MTT 103 Conventional and CNC Turning: SLO #3											
MTT 105 Conventional and CNC Milling: SLO #1 Squaring the Block Given a rough-cut aluminum block, square the block using a milling machine, cutters and measurement tools.	Х	Х	Х		4	2	1	2	2	2	
MTT 105 Conventional and CNC Milling: SLO #2											
MTT 105 Conventional and CNC Milling: SLO #3											
MTT 107 Advanced Manufacturing Processes: SLO #1 Pros and Cons of Cuttings Record the benefits and downsides of the following processes: Waterjet cutting, EDM wire cutting, Plasma cutting and Laser cutting.				х	4	2	1	2	2	2	
MTT 107 Advanced Manufacturing Processes: SLO #2											
MTT 107 Advanced Manufacturing Processes: SLO #3											