Course Assessment Results aligned to Program SLOs

San Mateo CCCD

CAN Program - Engineering/CIS

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Apply knowledge of math, science, and engineering or computer science to identify, formulate, and solve engineering/computer science problems.	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Calculations - Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device. (Created By CAN Dept - Engineering)	**Assessment Method:** Written Report and Class Presentation: Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device." **Assessment Method Category:** Other	06/06/2012 - Class average of 84% on class presentation Class average of 91% on written report **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			06/01/2011 - 100% student pass rate with an overall class average of 87% **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Portfolio		
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Exam		

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	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Data - Perform experiments analyze and interpret data, and prepare a report summarizing the results of the experiments. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab Reports - Prepare a summary of the results of an experiment. **Assessment Method Category:** Portfolio		
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Drawings - Read engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on Working Drawings **Assessment Method Category:** Other **Success Criterion:** At least 80% of students get 24 out of 30 points on Lab.	03/04/2014 - 78.9% of the students satisfied the criterion. **Result Type:** Criterion not met **Reporting Cycle:** 2014 - 2015	03/04/2014 - Assign a single 30-point grade for the lab (rather than having three separate grades for each part). Some students did not even attempt to do the last part of the lab because they know that the grade on the last part will/may be dropped as the lowest lab.
			12/25/2011 - 1.22 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - ProjectionTypes - Distinguish between various types of projections used in engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Multiview with Acad(Test 1 Prob 2) 0 - unsatisfactory 1 - satisfactory 2 - outstanding **Assessment Method Category:** Exam **Success Criterion:** At least 80% of students receive a 1. Average of the class is at least 1.0	12/31/2012 - 89% of the students got a 1 or higher. Class average is 1.41. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx	
			01/14/2011 - 100% of students received a 1. Class average is 1.185. **Result Type:**	

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			Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Data	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - CAD - Demonstrate the use of CAD programs, including solid modeling (Created By CAN Dept - Engineering)	**Assessment Method:** Create a solid model using AutoCAD. Create a layout showing standard orthographics views using SOLVIEW/SOLDRAW. **Assessment Method Category:** Exam **Success Criterion:** 0 - unsatisfactory 1 - satisfactory 2 ? outstanding At least 80% of students receive a 1. Average of the class is at least 1.0	12/31/2012 - 96% of students received at least a 1. Class average is 1.30. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx 01/14/2011 - 92.9% of students received a satisfactory rating. Class average is 1.222 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Data	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** Final Design Project **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** 60% of project prototypes are functional.	03/04/2014 - 84.2% of projects are functional. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/31/2012 - 100% of the final projects are functional. **Result Type:** Criterion met **Reporting Cycle:**	

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			2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx	
			12/25/2011 - 1.12 Average. All prototypes worked. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
			01/14/2011 - 87.5% of project prototypes are functional. Quality of the projects are higher than previous year despite a more difficult project (Table Jumper). **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Results	
			12/31/2009 - 100% of projects were functional. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Symbols - Adhere to the standard conventions for terminology, symbols, and styles used in engineering graphics. (Created By CAN Dept - Engineering)	**Assessment Method:** Final Project Written Report **Assessment Method Category:** Other **Success Criterion:** at least 60% of project written report receives a grade of at least 15 out of 20.	03/04/2014 - 100% of written reports received a grade of at least 75% **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

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			12/25/2011 - 17.53 Project Written Report Average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
			01/14/2011 - 87.5% of the final project reports received a grade of at least 75%. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
			12/31/2009 - 100% of final project reports received a great of 75% or higher. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Reduce force - Reduce systems of forces to one force or one force and one couple. (Created By CAN Dept - Engineering)	**Assessment Method:** Given that the resultant is horizontal (or vertical), find unknown forces and moments in the system. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:**	06/04/2013 - Class average is 3.61 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO1.xls	
			06/09/2012 - Class Average is 3.81 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO1.xls	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Class average of at least 3.5	05/29/2011 - 4.04 Class Average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO1	
			06/07/2010 - Class average is 3.96 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO1	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Rigid - Solve for unknown forces for rigid bodies in two-dimensional and three-dimensional equilibrium. (Created By CAN Dept - Engineering)	**Assessment Method:** Find reactions at supports of a rigid body in 3-D equilibrium. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Average of 3.5 for class.	07/02/2014 - Class average is 4.18. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 4.23 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO2.xls	
			06/10/2012 - Class average is 3.86 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO2.xls	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			05/29/2011 - Class average is 4.08 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO2	
			06/01/2010 - 4.04. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2010 - 4.04 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2009 - 4.20 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 4.23 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2007 - 4.24 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

CAN Dept - Engineering - CAN ENGR
230   - Engineering Statics

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	- trusses - Analyze trusses, frames, and machines for external reaction forces and forces between the members. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a Truss or a Frame, find the forces in specified members. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit	07/02/2014 - Class average is 3.77. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 3.58 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO3.xls	
		Assessment Method Category: Exam **Success Criterion:** Class average of 3.5	06/10/2012 - Class average is 3.64. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO3.xls	
			05/29/2011 - Class average is 3.96. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO3	
			06/01/2010 - 3.44 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO3.xls	06/01/2010 - Need to give more quizzes on the chapter on Structures.
			06/01/2009 - 3.75 **Result Type:** Criterion met **Reporting Cycle:**	

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			2009 - 2010	
			06/01/2008 - 3.88 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2007 - 3.69 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - centroids - Calculate centroids and moments of inertia for composite bodies. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a composite area, compute the coordinates of the centroid and moments of inertial about the given axes. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 average for the class.	07/02/2014 - Class average is 4.12 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 4.05 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO4.xls	
			06/10/2012 - Class average is 4.05 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO4.xls	
			05/29/2011 - Class Average is 3.42. Problem given was moment of inertia. **Result Type:** Criterion not met	05/29/2011 - Change HW problems on Chapter 9. Change sample Test 4 to show parallel axis theorem for a composite.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Reporting Cycle: 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO4 06/01/2010 - 3.58 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO4.xls	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Internal - Solve for internal forces in members and construct shear and bending moment diagrams for beams. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a beam acted on by a distributed load, concentrated forces, and a couple, draw the shear and bending moment diagrams. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 average for the class.	07/02/2014 - Class average is 3.65. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 06/04/2013 - Class average is 3.68. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO5.xls 06/10/2012 - Class average is 3.53 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO5.xls 05/29/2011 - Class average is 3.67 **Result Type:** Criterion met	

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			Reporting Cycle: 2010 - 2011	
			Related Documents: Engr230-AssmtData-SLO5	
			06/01/2010 - 3.5 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			Related Documents: Engr230-AssmtData-SLO5.xls	
			06/01/2009 - 3.4 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Emphasize graphical method.
			06/01/2008 - 4.08 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2007 - 3.76 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Friction - Solve problems that include friction. (Created By CAN Dept - Engineering)	**Assessment Method:** Find an unknown force needed to keep system in equilibrium. (Wedge, or belt friction present.) 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra	07/02/2014 - Class average is 3.86 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 06/04/2013 - Class average is 3.86. **Result Type:** Criterion met	

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		errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 average for the class.	**Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO6.xls 06/10/2012 - 3.67 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO6.xls 05/29/2011 - Class average is 4.17. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO6 06/01/2010 - 3.71 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO6.xls 06/01/2009 - 3.6 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 06/01/2008 - 4.15 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 06/01/2007 - 3.71	

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			Result Type: Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - stability - Analyze the stability of rigid bodies in equilibrium. (Created By CAN Dept - Engineering)	**Assessment Method:** Find positions of equilibrium, and analyze the stability of each equilibrium positions. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	06/01/2010 - 2.90 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	
			06/01/2009 - 3.10 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO7.xls	06/01/2010 - Need to cover Virtual Work as part of Test 4
			06/01/2008 - 3.92 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - particle kinematics - Derive and apply the relationships between position, velocity, and acceleration of a particle in rectilinear and curvilinear motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 1: Uniformly accelerated rectilinear motion, 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit	03/04/2014 - Class average is 3.94. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.96 Class average. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method Category: Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr240 - Assessments.doc	**Related Documents:** Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 3.56 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
			01/14/2011 - 3,64 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 4.61 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			12/31/2009 - 4.27 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - plane motion - Derive relations defining the velocity and acceleration of any particle on a rigid body for translation, rotation and general plane motion. (Created By CAN Dept -	**Assessment Method:** Problem2: General Plane Motion - velocities and Acceleration **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	03/04/2014 - Class average is 4.02 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

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	Engineering)		12/21/2012 - 3.96 class average. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
		Related Documents: Engr240 - Assessments.doc		
			12/25/2011 - 4.19 class average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
			01/14/2011 - 4.14 class average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 3.45 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Give 2 quizzes on Chapter 15 - one on velocities, and one on accelerations. **Action Plan Category:** Conduct Further Assessment
			12/31/2008 - 4.72 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

CAN Dept - Engineering - CAN ENGR
240   - Engineering Dynamics

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	- Newton - Correctly apply Newton's second law to analyze the motion of a particle in rectilinear or curvilinear translation acted upon by forces, or a rigid body in plane motion acted upon by forces and moments. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 5: D'Alembert's Principle 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr240 - Assessments.doc	03/04/2014 - Class average is 3.75. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.75 class average **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 3.56 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			01/14/2011 - 3.29 class average. Improved from last year's 2.73 but still needs improvement. **Result Type:** Criterion not met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	01/14/2011 - Focus on one-FBD problems with zero omega. Give a quiz on Chapter 16 GPM.
			12/31/2009 - 2.73 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Give a quiz on Chap 16, GPM.
			12/31/2008 - 4.11 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

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	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - work-energy - Apply the method of work and energy to problems involving a single particle, a system of particles, or a rigid body in plane motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 3: Work-energy with spring, gravity and friction. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	03/04/2014 - Class average is 4.17. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 4.11 Class Average **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 4.0 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
			01/14/2011 - Class average 3.5. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 3.82 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 4.11 **Result Type:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - Analysis - Select the method of analysis that is best suited for the solution of a given problem. (Newton's Law, Work and Energy, Impulse and Momentum, or a combination of these methods.) (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 6 - Rigid body kinetics (w-e) **Success Criterion:** 3.5 class average **Related Documents:** Engr240 - Assessments.doc	03/04/2014 - Class average is 4.17 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.46 Average. Low because is was the last problem on the test. **Result Type:** Criterion not met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	12/21/2012 - Low scores probably because this was the last problem on the test. Try moving to second to that last or 4th problem.
			12/25/2011 - 3.56 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			01/14/2011 - 3.64 class average. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 3.36 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Quiz on Ch 17. w-e of rigid body.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			12/31/2008 - 4.00 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - Coriolis - Describe and analyze the plane motion of a particle relative to a rotating frame. Determine the Coriolis acceleration in plane motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Test #3: Problem #4. Given two rotating bars connected by a collar, find the angular velocity, relative velocity with respect to rotating frame, angular acceleration, and relative acceleration with respect to the rotating frame. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Class average of at least 3.5	03/04/2014 - Class average is 3.64. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/21/2012 - 3.54 class average **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx 12/25/2011 - 3.94 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - Impact - Apply the principle of impulse and momentum to problems of direct and oblique central impact, as well as eccentric impact. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 4: Direct Central Impact 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error	03/04/2014 - Class average is 4.33. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/21/2012 - 4.18 class average. **Result Type:**	

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		5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 4.34 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
			01/14/2011 - 3.5 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 4.09 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 3.78 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - responses - Analyze electric circuits for DC, transient, and AC voltage and current responses. (Created By CAN Dept - Engineering)	**Assessment Method:** Problems 1 (Source Transformation), 2 (Mesh) & 3 (Nodal) Source Transformation: 0: No credit 1: two incorrect transformations	07/02/2014 - Class average is 3.83. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		2: Transformed 2-ohm resistor 3: One incorrect transformation 4: Algebra error 5: Full Credit Mesh: 0: No credit 1: two incorrect meshes 2: constrained mesh 3: one incorrect mesh 4: Algebra Error 5: Full Credit Nodal: 0: No credit 1: two incorrect nodal equations 2: constrained node 3: one incorrect node 4: Algebra Error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	06/04/2013 - Class average is 4.10. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO1.xls 06/10/2012 - 4.27 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO1.xls 05/28/2011 - 4.47 Class average. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr260-Assesssment Data SLO1 06/01/2010 - 3.98 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO1.xls 06/01/2009 - 4.41 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 06/01/2008 - 4.15 **Result Type:** Criterion met	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Reporting Cycle: 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - techniques - Evaluate different circuits analysis techniques and choose an appropriate technique for a particular circuit. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 6 on Assessment (Thevenin, Maximum Power, AC) Maximum Power: 0: No credit 1: only one correct (Zth, Vth, ZL, Pmax) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	07/02/2014 - Class average is 3.91. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/05/2013 - Class average is 3.95. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO2.xls	
			06/10/2012 - 4.00 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO2.xls	
			05/28/2011 - Class average is 3.91 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr 260 SLO2 Results	
			06/01/2010 - 4.15 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Engr260-AssmtData-SLO2.xls	

	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - Solution - Synthesize a method of solution to the determine current or voltage in any circuit using a combination Kirchhoff?s Laws, loop and node analysis, the solution of differential equations, generalized impedance and admittance techniques, and phasor methods. (Created By CAN Dept - Engineering)	**Assessment Method:** Problems 4 (1st-order) and 7 (2nd-order) 1st-order: 0: No credit 1: one correct (solution, s-s, initial and tau) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit 2nd-order: 0: No credit 1: one correct (s-s, char. eqn. transient form) 2: 2 correct 3: three correct 4: IC wrong 5: Full credit (or algebra) **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	06/05/2013 - Class average is 3.43 (3.65 for first-order and 3.22 for second-order circuit). The second-order problem is the last problem on the final, and few students did not even attempt the problem. **Result Type:** Criterion not met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO3.xls	06/05/2013 - For next year, move the 2nd-order problem to number 4 on the final exam Students did well on this problem in Test 2. It is possible that the low scores in the final are simply because it is the last problem on the test.
			06/10/2012 - 3.59 average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO3.xls	
			05/28/2011 - Class average is 3.66. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr 260 SLO3 Results	
			06/01/2010 - 3.63 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO3.xls	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			06/01/2009 - 3.48 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Assign more problems on Chapter 8 - 2nd-order transients.
			06/01/2008 - 3.45 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Assign more problems on 2nd-order circuits.
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - op amp - Apply a simple model for transistor and operational amplifiers to design and analyze simple circuits. (Created By CAN Dept - Engineering)	**Assessment Method:** Exam 2. Problem #4. Given an operational amplifier circuit, find the output voltage (or current) assuming ideal op amp techniques. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Average score of 3.5.	06/05/2013 - Class average is 3.55. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO4.xls 03/25/2011 - Class average of 3.58 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr260-Assesssment Data SLO6	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - Steady state - Solve steady state AC circuit and network problems involving power transfer and resonance. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 6 on Assessment (Complex, Apparent, Real, Reactive Power) Maximum Power: 0: No credit	07/02/2014 - Class average is 3.57 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		1: only one correct (Zth, Vth, power factor, S) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	06/05/2013 - Class average is 3.57 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO6.xls	
			06/10/2012 - 3.91 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO6.xls	
			05/28/2011 - Class average is 4.22. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr260-Assesssment Data SLO6	
			06/01/2010 - 4.07 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO1.xls	
			06/01/2009 - 3.59 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 3.27 **Result Type:** Criterion not met **Reporting Cycle:**	06/01/2010 - Emphasize Complex Power approach.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - simulation - Use a circuit simulation program (MultiSIM, PSPICE) to analyze circuit behavior. (Created By CAN Dept - Engineering)	**Assessment Method:** Simulations Using MultiSIM. Y or N for each student **Assessment Method Category:** Other **Success Criterion:** 90% of students are able to create MULTISIM simulation	07/02/2014 - All students showed proficiency in using MultiSIM. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			05/28/2011 - All students taking lab class are proficient with MULTISIM. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
			06/01/2010 - 100% of students showed proficiency in using MultiSIM. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Operate - Operate, safely and properly, multimeters, power supplies, signal generators and oscilloscopes. (Created By CAN Dept - Engineering)	**Assessment Method:** Instructor observation during labs. 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: expert in using equipment **Assessment Method Category:** Presentation/Performance **Success Criterion:** class average of 2 **Related Documents:** Engr261 Assessment.doc	08/20/2012 - 23 out of 24 (or95.8%) of students demonstrated proficiency in using Electronic test & measurement equipment (i.e. voltmeters, oscilloscopes, power supplies) **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls	
			05/30/2011 - Class average is 2.59 **Result Type:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO1	
			06/02/2010 - 2.54 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr261-SLOAssessmentData.xlsx	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Build - Build, from schematic diagrams, circuits using resistive, capacitive and inductive elements as well as switches, potentiometers, transistors, operational amplifiers, lamps, decade boxes and power supplies (Created By CAN Dept - Engineering)	**Assessment Method:** Instructor observation during labs. 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: able to build and troubleshoot any circuit **Assessment Method Category:** Presentation/Performance **Success Criterion:** class average of 2.0 **Related Documents:** Engr261 Assessment.doc	08/20/2012 - 24 out of 24 (or 100%) of students are able to read and understand a circuit diagram and build electronic circuits correctly using a circuit diagram. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls	
			05/30/2011 - Class average is 2.50. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO2	
			06/02/2010 - 2.38 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

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	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Calculate - Calculate dc and ac voltage, current, and power, and experimentally verify the results for a variety of electrical circuits (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on op amp circuits **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** 8.50 class average	05/30/2011 - Class average is 8.64 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO3 06/02/2010 - 8.97 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Design - Design and construct circuits to experimentally verify circuit theorem?s including Ohm?s Law, Kirchhoff Rules, superposition, Thevenin, and Norton theorems. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on nodal, mesh, superposition, Thevenin and Norton **Assessment Method Category:** Other **Success Criterion:** 8.50 class average	05/30/2011 - Class average is 8.56. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO3 06/02/2010 - 9.24 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Verify - Experimentally verify the transient behavior of first- and second-order RLC circuits. (Created By CAN	**Assessment Method:** Lab on 2nd-order transients **Assessment Method Category:** Other	05/30/2011 - Class average is 8.86. **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	Dept - Engineering)	**Success Criterion:** 8.5 class average	2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO5	
			06/02/2010 - 9.14 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Reports - Write lab reports that evaluate, analyze and summarize results and measurements of circuit behavior, including a discussion of any discrepancies between theoretical and measured results. (Created By CAN Dept - Engineering)	**Assessment Method:** Average of lab reports **Assessment Method Category:** Other **Success Criterion:** 8.50 class average	08/20/2012 - 20 out of 24 (or 83.3%) of students can write clear and concise lab reports communicating experimental procedure, data, results, and conclusions. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls	
			05/30/2011 - Class average is 9.71. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO56	
			06/02/2010 - 9.14 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab.			

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	- Simulation - Use a circuit simulation program (PSPICE, MultiSIM) and other computer applications (MATLAB, MS Excel) to predict circuit behavior. (Created By CAN Dept - Engineering)	**Assessment Method:** MultiSIM: 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: very proficient **Assessment Method Category:** Other **Success Criterion:** class average of 2.50	05/30/2011 - Class average is 2.59. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO7	
			06/02/2010 - 3.0 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - crystals - Identify the crystalline structure of models, and explain now the structure?s characteristics affect a material?s properties. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 1. Crystal structure; APF 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	01/04/2012 - 3.28 average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011	
			01/15/2011 - 3.57 class average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
			12/31/2009 - 4.11 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLO1AssessmentData.xlsx	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			12/31/2008 - 4.00 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLOAssessmentData	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - Imperfections - Distinguish between the types of imperfections that can occur in crystalline structures and compare their effects on a material?s properties. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 4: Slip systems; single crystal 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	01/15/2011 - 3.93 class average. Improved from 2009 results (3.18 average). **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
			12/31/2009 - 3.18 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLOAssessmentData	06/01/2010 - Give at least one quiz on slip systems.
			12/31/2008 - 3.5 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - s-s diffusion - Calculate rates of steady -state diffusion. (Created By CAN Dept - Engineering)	**Assessment Method:** Steady State Diffusion Problem on Chapter 5. 0: No credit 1: Less than 50% of solution is correct	01/04/2012 - 3.75 class average. **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Class average of at least 3.5	2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 01/14/2011 - Class average of 3.6 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - mechanical properties - Perform tension, compression, and hardness tests, and interpret the results. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 3: Minimum diameter for given elongation and diameter reduction. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	01/15/2011 - 3.29 class average **Result Type:** Criterion not met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData 12/31/2009 - 3.55 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLOAssessmentData 12/31/2008 - 4.07 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	01/15/2011 - Give two separate quizzes on Chapter 6. One on satisfying multiple design criteria.

CAN Dept - Engineering - CAN ENGR
270   - Materials Science

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	- strengthening mechanisms - Describe different strengthening mechanisms and thermal processing, and compare their effects. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 7: TTT Diagram 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	01/04/2012 - 2.63 class average. **Result Type:** Criterion not met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 01/15/2011 - 3.63 class average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData 12/31/2009 - 3.90 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 12/31/2008 - 3.00 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	01/04/2012 - Spend more time on Chapters 9 & 10. Give at least one quiz for each chapter. **Action Plan Category:** Conduct Further Assessment
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - polymers - Relate typical properties of polymers and ceramics to their structures. (Created By CAN Dept - Engineering)	**Assessment Method:** Test 4 Multiple Choice questions. Class average of 12 out of 20 points. **Assessment Method Category:** Exam		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method: Iron oxide (FeO) has the rock salt crystal structure. It has a density of 5.70 g/cm3, and the atomic weights are 55.85 g/mol for Iron, and 16.00 g/mol for Oxygen. a. Calculate the unit cell edge length. b. How does the result in part (a) compare with the edge length as determined from the ionic radii of 0.077 nm for Iron, and 0.140 nm for Oxygen? 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average.	01/04/2012 - 3.25 class average. **Result Type:** Criterion not met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 Engr270 - Assessment Data Fall2011	01/04/2012 - Give a quiz on cermic crystal structures before Test 4. **Action Plan Category:** Conduct Further Assessment
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - semi-conductors - Describe the mechanisms for electrical conduction in semiconductors. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 8: Doping of Germanium with Antimony 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam	01/04/2012 - 3.94 class average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 01/15/2011 - 4.04 class average **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Success Criterion: 3.5 class average **Related Documents:** Engr270-Assessments.doc	2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
			12/31/2009 - 3.39 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 3.50 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 3.39 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Spend more time on Ch 18.
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Read - Read engineering drawings (Created By CAN Dept - Engineering)	**Assessment Method:** Weekly lab assignments. Labs 1-9. **Assessment Method Category:** Other **Success Criterion:** Average class grade for Labs 1-9 is at least 8 out of 10.		
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Projections - Distinguish between various types of projections used in engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Multiview with Acad(Test 1 Prob 2) 0 - unsatisfactory 1 - satisfactory 2 - outstanding **Assessment Method Category:** Exam		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Success Criterion: 80% of class got 1. Class average is at least 1.0.		
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Draw - Make freehand drawings (Created By CAN Dept - Engineering)	**Assessment Method:** Isometric Sketching 0 - unsatisfactory 1 - satisfactory 2 - outstanding **Assessment Method Category:** Exam **Success Criterion:** 80% of class got 1. Class average is at least 1.0.		
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Instruments - Demonstrate the use of drawing instruments. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab #5 - Isometric Sketching **Assessment Method Category:** Other **Success Criterion:** Class average grade for Lab 5 is at least 8.		
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - AutoCad - Demonstrate the use of AutoCAD to create engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Test 1, Problem 1: Orthographic Projections with AutoCAD **Assessment Method Category:** Exam **Success Criterion:** Class average grade of 8 out of 10.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Geometry - Apply descriptive geometry principles to solve engineering problems involving points, lines, surfaces and volumes. (Created By CAN Dept - Engineering)	**Assessment Method:** Labs 10-13 on Descriptive Geometry **Assessment Method Category:** Other **Success Criterion:** Class average of at least 8.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - AutoCad - Demonstrate the use of AutoCAD and SolidWorks to create solid models. Distinguish between various types of projections used in engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Create a solid model using AutoCAD. Create a layout showing standard orthographics views using SOLVIEW/SOLDRAW. 0. not satisfactory 1. satisfactory 2. outstanding **Assessment Method Category:** Exam **Success Criterion:** Class average is at least 1.0. At least 80% of students got a 1 or higher.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Tolerances - Specify dimensions and tolerances in engineering graphics, including Geometric Dimensions and Tolerances. (Created By CAN Dept - Engineering)	**Assessment Method:** PROBLEM NO. 3: Geometric Dimensioning and Tolerancing Starting with the AutoCAD drawing file Test3_3_2007.dwg, add the geometric dimensioning information given below: a. On the right-side view, indicate depth dimension of the object using lower and upper limits of 0.995 and 1.005, respectively. b. Make the right-hand face in the right-side view flat within 0.005. Identify this surface as datum feature A. c. Make the lower surface in the front		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		view perpendicular within 0.005 relative to primary datum feature A. Identify this surface as datum feature B. d. Make the right-hand face of the front view perpendicular within 0.005 relative to the primary datum feature A, and secondary datum feature B. Identify this surface as datum feature C. e. Add basic dimensions to locate the centerlines of the holes in the front view. f. Dimension the two holes using lower and upper limits of 1.000 and 1.005, respectively. Position these holes to be within 0.004 cylindrical tolerance zone at maximum material condition relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C at maximum material condition. g. Dimension the width of the slot using lower and upper limits of 2.000 and 1.005, respectively. Position this slot to within a .006 tolerance at maximum material condition relative to primary datum feature B, and secondary datum feature C. h. On the front view, add a profile of a surface tolerance of 0.010 relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C applied to the left plane, the fillet, and the top plane between the bottom left corner and the top right corner points. i. Add remaining necessary dimensions as basic dimensions. **Assessment Method Category:** Other **Success Criterion:** Class average of 20 out of 30.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Drawings - Prepare complete sets of working drawings and assemblies. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on working drawings and assemblies. **Assessment Method Category:** Other **Success Criterion:** Class average of 20 out of 30 points.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** 60% of project prototypes are functional. **Assessment Method Category:** Capstone Assignment/Project		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Proposal - Write a proposal to perform an independent study of an engineering topic or problem. (Created By CAN Dept - Engineering)	**Assessment Method:** Independent Study Form **Assessment Method Category:** Other **Success Criterion:** Success if submitted.		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Literature search - Perform a literature search needed to support an independent study of an engineering topic. (Created By CAN Dept - Engineering)	**Assessment Method:** Student submission of reference list. **Assessment Method Category:** Other **Success Criterion:** Success if submitted.		

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SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Written Report - Write a report that evaluates, analyzes and summarizes the results of the independent study following generally accepted guidelines in technical reports. (Created By CAN Dept - Engineering)	**Assessment Method:** Submission of Final Report **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** All students submitted satisfactory final report.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Use techniques, skills, and modern engineering and computer tools necessary for engineering or computer science practice	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Role - Evaluate the role of engineers in various societies around the world and throughout history. (Created By CAN Dept - Engineering)	**Assessment Method:** Quiz, Test **Assessment Method Category:** Exam		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Disciplines - Recommend the types of projects and responsibilities that are the most appropriate for various engineering disciplines. (Created By CAN Dept - Engineering)	**Assessment Method:** Quiz, Test, Written report on typical job functions of engineers. **Assessment Method Category:** Essay	06/06/2012 - Class average of 86% on class presentation Class average of 89% on written report **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 05/29/2011 - Assessment via written report: 100% pass rate with average score of 87% Assessment via test question: Average score 1.65 (2-completely correct, 1-partially correct, 0-did not attempt/not correct), all students earned at least a 1 score. **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2010 - 2011	
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Calculations - Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device. (Created By CAN Dept - Engineering)	**Assessment Method:** Written Report and Class Presentation: Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device." **Assessment Method Category:** Other	06/06/2012 - Class average of 84% on class presentation Class average of 91% on written report **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			06/01/2011 - 100% student pass rate with an overall class average of 87% **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Portfolio		
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Exam		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Drawings - Read and write elementary engineering drawings, instructions, and reports. (Created By CAN Dept - Engineering)	**Assessment Method:** Project Presentation and lab report- Create an engineering drawing showing the top, front, and right views of your model. **Assessment Method Category:** Presentation/Performance		
		Assessment Method: Project Presentation and lab report- Create an engineering drawing showing the top, front, and right views of your model. **Assessment Method Category:** Portfolio		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Data - Perform experiments analyze and interpret data, and prepare a report summarizing the results of the experiments. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab Reports - Prepare a summary of the results of an experiment. **Assessment Method Category:** Portfolio		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - License - Illustrate the processes required to become an engineer and maintain a license. (Created By CAN Dept - Engineering)	**Assessment Method:** Quiz, Test **Assessment Method Category:** Exam		
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Drawings - Read engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on Working Drawings **Assessment Method Category:** Other	03/04/2014 - 78.9% of the students satisfied the criterion. **Result Type:** Criterion not met	03/04/2014 - Assign a single 30-point grade for the lab (rather than having three separate grades for each part). Some students did not even attempt to

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Success Criterion: At least 80% of students get 24 out of 30 points on Lab.	**Reporting Cycle:** 2014 - 2015	do the last part of the lab because they know that the grade on the last part will/may be dropped as the lowest lab.
			12/25/2011 - 1.22 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Freehand - Make freehand drawings, and demonstrate the use of drawing instruments. (Created By CAN Dept - Engineering)	**Assessment Method:** Isometric Sketching 0 - unsatisfactory 1 - satisfactory 2 - outstanding **Assessment Method Category:** Exam **Success Criterion:** At least 80% of students receive a 1. Average of the class is at least 1.0	03/04/2014 - Class average is 1.21. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/31/2012 - 89% of students received a 1 or 2. Class average is 1.33. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx	
			12/25/2011 - Class average 1.33 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
			01/14/2011 - 96.4% of students received at least a 1. Class average is 1.296	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Result Type: Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Data	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - CAD - Demonstrate the use of CAD programs, including solid modeling (Created By CAN Dept - Engineering)	**Assessment Method:** Create a solid model using AutoCAD. Create a layout showing standard orthographics views using SOLVIEW/SOLDRAW. **Assessment Method Category:** Exam **Success Criterion:** 0 - unsatisfactory 1 - satisfactory 2 ? outstanding At least 80% of students receive a 1. Average of the class is at least 1.0	12/31/2012 - 96% of students received at least a 1. Class average is 1.30. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx 01/14/2011 - 92.9% of students received a satisfactory rating. Class average is 1.222 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Data	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** Final Design Project **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** 60% of project prototypes are functional.	03/04/2014 - 84.2% of projects are functional. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/31/2012 - 100% of the final projects are functional. **Result Type:** Criterion met	

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SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Reporting Cycle: 2012 - 2013	
			Related Documents: Engr210-SLOAssessmentData.xlsx	
			12/25/2011 - 1.12 Average. All prototypes worked. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			Related Documents: Engr210-Assessment Data-2011	
			01/14/2011 - 87.5% of project prototypes are functional. Quality of the projects are higher than previous year despite a more difficult project (Table Jumper). **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
			Related Documents: Engr210 Assessment Results	
			12/31/2009 - 100% of projects were functional. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Tolerances - Specify dimensions and tolerances in engineering graphics. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem #3, Test 3: Starting with the AutoCAD drawing file Test3_3_2007.dwg, add the geometric dimensioning information given below: a. On the right-side view, indicate depth		

| | | dimension of the object using lower and upper limits of 0.995 and 1.005, respectively.
 b. Make the right-hand face in the right-side view flat within 0.005. Identify this surface as datum feature A.
 c. Make the lower surface in the front view perpendicular within 0.005 relative to primary datum feature A. Identify this surface as datum feature B.
 d. Make the right-hand face of the front view perpendicular within 0.005 relative to the primary datum feature A, and secondary datum feature B. Identify this surface as datum feature C.
 e. Add basic dimensions to locate the centerlines of the holes in the front view.
 f. Dimension the two holes using lower and upper limits of 1.000 and 1.005, respectively. Position these holes to be within 0.004 cylindrical tolerance zone at maximum material condition relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C at maximum material condition.
 g. Dimension the width of the slot using lower and upper limits of 2.000 and 1.005, respectively. Position this slot to within a .006 tolerance at maximum material condition relative to primary datum feature B, and secondary datum feature
 C.
 h. On the front view, add a profile of a surface tolerance of 0.010 relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C applied to the left plane, the fillet, and the top plane between the bottom left corner and the top right corner points.
 i. Add remaining necessary dimensions | | |

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		as basic dimensions. **Assessment Method Category:** Exam **Success Criterion:** At least 80% of students receive 20 out of 30 points.		
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Symbols - Adhere to the standard conventions for terminology, symbols, and styles used in engineering graphics. (Created By CAN Dept - Engineering)	**Assessment Method:** Final Project Written Report **Assessment Method Category:** Other **Success Criterion:** at least 60% of project written report receives a grade of at least 15 out of 20.	03/04/2014 - 100% of written reports received a grade of at least 75% **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/25/2011 - 17.53 Project Written Report Average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011 01/14/2011 - 87.5% of the final project reports received a grade of at least 75%. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 12/31/2009 - 100% of final project reports received a great of 75% or higher. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

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SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Reduce force - Reduce systems of forces to one force or one force and one couple. (Created By CAN Dept - Engineering)	**Assessment Method:** Given that the resultant is horizontal (or vertical), find unknown forces and moments in the system. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Class average of at least 3.5	06/04/2013 - Class average is 3.61 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO1.xls 06/09/2012 - Class Average is 3.81 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO1.xls 05/29/2011 - 4.04 Class Average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO1 06/07/2010 - Class average is 3.96 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO1	

CAN Dept - Engineering - CAN ENGR
230 - Engineering Statics
- Rigid - Solve for unknown forces for

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	rigid bodies in two-dimensional and three-dimensional equilibrium. (Created By CAN Dept - Engineering)	**Assessment Method:** Find reactions at supports of a rigid body in 3-D equilibrium. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Average of 3.5 for class.	07/02/2014 - Class average is 4.18. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 4.23 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO2.xls	
			06/10/2012 - Class average is 3.86 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO2.xls	
			05/29/2011 - Class average is 4.08 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO2	
			06/01/2010 - 4.04. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2010 - 4.04 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			06/01/2009 - 4.20 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 4.23 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2007 - 4.24 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - trusses - Analyze trusses, frames, and machines for external reaction forces and forces between the members. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a Truss or a Frame, find the forces in specified members. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Class average of 3.5	07/02/2014 - Class average is 3.77. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 3.58 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO3.xls	
			06/10/2012 - Class average is 3.64. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO3.xls	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			05/29/2011 - Class average is 3.96. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO3	
			06/01/2010 - 3.44 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO3.xls	06/01/2010 - Need to give more quizzes on the chapter on Structures.
			06/01/2009 - 3.75 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 3.88 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2007 - 3.69 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - centroids - Calculate centroids and moments of inertia for composite bodies. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a composite area, compute the coordinates of the centroid and moments of inertial about the given axes. 0: No credit 1: Less than 50% of solution is correct	07/02/2014 - Class average is 4.12 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 average for the class.	06/04/2013 - Class average is 4.05 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO4.xls	
			06/10/2012 - Class average is 4.05 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO4.xls	
			05/29/2011 - Class Average is 3.42. Problem given was moment of inertia. **Result Type:** Criterion not met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO4	05/29/2011 - Change HW problems on Chapter 9. Change sample Test 4 to show parallel axis theorem for a composite.
			06/01/2010 - 3.58 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO4.xls	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Internal - Solve for internal forces in members and construct shear and bending moment diagrams for beams. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a beam acted on by a distributed load, concentrated forces, and a couple, draw the shear and bending moment diagrams. 0: No credit	07/02/2014 - Class average is 3.65. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 average for the class.	06/04/2013 - Class average is 3.68. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO5.xls	
			06/10/2012 - Class average is 3.53 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO5.xls	
			05/29/2011 - Class average is 3.67 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO5	
			06/01/2010 - 3.5 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO5.xls	
			06/01/2009 - 3.4 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Emphasize graphical method.
			06/01/2008 - 4.08 **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2009 - 2010	
			06/01/2007 - 3.76 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Friction - Solve problems that include friction. (Created By CAN Dept - Engineering)	**Assessment Method:** Find an unknown force needed to keep system in equilibrium. (Wedge, or belt friction present.) 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 average for the class.	07/02/2014 - Class average is 3.86 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 3.86. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO6.xls	
			06/10/2012 - 3.67 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO6.xls	
			05/29/2011 - Class average is 4.17. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO6	
			06/01/2010 - 3.71	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Result Type: Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO6.xls	
			06/01/2009 - 3.6 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 4.15 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2007 - 3.71 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - stability - Analyze the stability of rigid bodies in equilibrium. (Created By CAN Dept - Engineering)	**Assessment Method:** Find positions of equilibrium, and analyze the stability of each equilibrium positions. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam	06/01/2010 - 2.90 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	
			06/01/2009 - 3.10 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO7.xls	06/01/2010 - Need to cover Virtual Work as part of Test 4

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Success Criterion: 3.5 class average	06/01/2008 - 3.92 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - particle kinematics - Derive and apply the relationships between position, velocity, and acceleration of a particle in rectilinear and curvilinear motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 1: Uniformly accelerated rectilinear motion, 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr240 - Assessments.doc	03/04/2014 - Class average is 3.94. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.96 Class average. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 3.56 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
			01/14/2011 - 3,64 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 4.61 **Result Type:** Criterion met	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Reporting Cycle: 2009 - 2010	
			12/31/2009 - 4.27 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			Related Documents: Engr240-SLOAssessmentData.xlsx	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - plane motion - Derive relations defining the velocity and acceleration of any particle on a rigid body for translation, rotation and general plane motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem2: General Plane Motion - velocities and Acceleration **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr240 - Assessments.doc	03/04/2014 - Class average is 4.02 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.96 class average. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
			Related Documents: Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 4.19 class average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			Related Documents: Engr240-Assessment Data-2011	
			01/14/2011 - 4.14 class average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
			Related Documents:	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Engr240-SLOAssessmentData	
			12/31/2009 - 3.45 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Give 2 quizzes on Chapter 15 - one on velocities, and one on accelerations. **Action Plan Category:** Conduct Further Assessment
			12/31/2008 - 4.72 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - Newton - Correctly apply Newton's second law to analyze the motion of a particle in rectilinear or curvilinear translation acted upon by forces, or a rigid body in plane motion acted upon by forces and moments. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 5: D'Alembert's Principle 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr240 - Assessments.doc	03/04/2014 - Class average is 3.75. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.75 class average **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 3.56 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			01/14/2011 - 3.29 class average. Improved from last year's 2.73 but still needs improvement. **Result Type:**	01/14/2011 - Focus on one-FBD problems with zero omega. Give a quiz on Chapter 16 GPM.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion not met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 2.73 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Give a quiz on Chap 16, GPM.
			12/31/2008 - 4.11 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - work-energy - Apply the method of work and energy to problems involving a single particle, a system of particles, or a rigid body in plane motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 3: Work-energy with spring, gravity and friction. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	03/04/2014 - Class average is 4.17. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 4.11 Class Average **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	
			12/25/2011 - 4.0 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			[Engr240-Assessment Data-2011](#)	
			01/14/2011 - Class average 3.5. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** [Engr240-SLOAssessmentData](#)	
			12/31/2009 - 3.82 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 4.11 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - Analysis - Select the method of analysis that is best suited for the solution of a given problem. (Newton's Law, Work and Energy, Impulse and Momentum, or a combination of these methods.) (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 6 - Rigid body kinetics (w-e) **Success Criterion:** 3.5 class average **Related Documents:** [Engr240 - Assessments.doc](#)	03/04/2014 - Class average is 4.17 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.46 Average. Low because is was the last problem on the test. **Result Type:** Criterion not met **Reporting Cycle:** 2012 - 2013 **Related Documents:** [Engr240-SLOAssessmentData.xlsx](#)	12/21/2012 - Low scores probably because this was the last problem on the test. Try moving to second to that last or 4th problem.
			12/25/2011 - 3.56 class average **Result Type:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion met **Reporting Cycle:** 2011 - 2012	
			01/14/2011 - 3.64 class average. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 3.36 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Quiz on Ch 17. w-e of rigid body.
			12/31/2008 - 4.00 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - Coriolis - Describe and analyze the plane motion of a particle relative to a rotating frame. Determine the Coriolis acceleration in plane motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Test #3: Problem #4. Given two rotating bars connected by a collar, find the angular velocity, relative velocity with respect to rotating frame, angular acceleration, and relative acceleration with respect to the rotating frame. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit	03/04/2014 - Class average is 3.64. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/21/2012 - 3.54 class average **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx 12/25/2011 - 3.94 class average	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method Category: Exam **Success Criterion:** Class average of at least 3.5	**Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - Impact - Apply the principle of impulse and momentum to problems of direct and oblique central impact, as well as eccentric impact. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 4: Direct Central Impact 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	03/04/2014 - Class average is 4.33. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/21/2012 - 4.18 class average. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx 12/25/2011 - 4.34 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011 01/14/2011 - 3.5 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData 12/31/2009 - 4.09 **Result Type:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 3.78 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - responses - Analyze electric circuits for DC, transient, and AC voltage and current responses. (Created By CAN Dept - Engineering)	**Assessment Method:** Problems 1 (Source Transformation), 2 (Mesh) & 3 (Nodal) Source Transformation: 0: No credit 1: two incorrect transformations 2: Transformed 2-ohm resistor 3: One incorrect transformation 4: Algebra error 5: Full Credit Mesh: 0: No credit 1: two incorrect meshes 2: constrained mesh 3: one incorrect mesh 4: Algebra Error 5: Full Credit Nodal: 0: No credit 1: two incorrect nodal equations 2: constrained node 3: one incorrect node 4: Algebra Error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	07/02/2014 - Class average is 3.83. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 06/04/2013 - Class average is 4.10. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO1.xls 06/10/2012 - 4.27 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO1.xls 05/28/2011 - 4.47 Class average. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr260-Assesssment Data SLO1	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			06/01/2010 - 3.98 class average **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO1.xls	
			06/01/2009 - 4.41 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 4.15 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - techniques - Evaluate different circuits analysis techniques and choose an appropriate technique for a particular circuit. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 6 on Assessment (Thevenin, Maximum Power, AC) Maximum Power: 0: No credit 1: only one correct (Zth, Vth, ZL, Pmax) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	07/02/2014 - Class average is 3.91. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/05/2013 - Class average is 3.95. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO2.xls	
			06/10/2012 - 4.00 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Related Documents: Engr260-AssmtData-SLO2.xls	
			05/28/2011 - Class average is 3.91 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr 260 SLO2 Results	
			06/01/2010 - 4.15 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO2.xls	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - Solution - Synthesize a method of solution to the determine current or voltage in any circuit using a combination Kirchhoff?s Laws, loop and node analysis, the solution of differential equations, generalized impedance and admittance techniques, and phasor methods. (Created By CAN Dept - Engineering)	**Assessment Method:** Problems 4 (1st-order) and 7 (2nd-order) 1st-order: 0: No credit 1: one correct (solution, s-s, initial and tau) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit 2nd-order: 0: No credit 1: one correct (s-s, char. eqn. transient form) 2: 2 correct 3: three correct 4: IC wrong 5: Full credit (or algebra)	06/05/2013 - Class average is 3.43 (3.65 for first-order and 3.22 for second-order circuit). The second-order problem is the last problem on the final, and few students did not even attempt the problem. **Result Type:** Criterion not met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO3.xls 06/10/2012 - 3.59 average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO3.xls	06/05/2013 - For next year, move the 2nd-order problem to number 4 on the final exam Students did well on this problem in Test 2. It is possible that the low scores in the final are simply because it is the last problem on the test.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method Category: Exam **Success Criterion:** 3.5 class average	05/28/2011 - Class average is 3.66. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr 260 SLO3 Results	
			06/01/2010 - 3.63 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO3.xls	
			06/01/2009 - 3.48 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Assign more problems on Chapter 8 - 2nd-order transients.
			06/01/2008 - 3.45 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Assign more problems on 2nd-order circuits.
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - op amp - Apply a simple model for transistor and operational amplifiers to design and analyze simple circuits. (Created By CAN Dept - Engineering)	**Assessment Method:** Exam 2. Problem #4. Given an operational amplifier circuit, find the output voltage (or current) assuming ideal op amp techniques. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error	06/05/2013 - Class average is 3.55. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO4.xls 03/25/2011 - Class average of 3.58 **Result Type:** Criterion met	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Average score of 3.5.	**Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr260-Assesssment Data SLO6	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - Steady state - Solve steady state AC circuit and network problems involving power transfer and resonance. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 6 on Assessment (Complex, Apparent, Real, Reactive Power) Maximum Power: 0: No credit 1: only one correct (Zth, Vth, power factor, S) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	07/02/2014 - Class average is 3.57 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 06/05/2013 - Class average is 3.57 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO6.xls 06/10/2012 - 3.91 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO6.xls 05/28/2011 - Class average is 4.22. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr260-Assesssment Data SLO6 06/01/2010 - 4.07 **Result Type:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO1.xls	
			06/01/2009 - 3.59 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 3.27 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Emphasize Complex Power approach.
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - simulation - Use a circuit simulation program (MultiSIM, PSPICE) to analyze circuit behavior. (Created By CAN Dept - Engineering)	**Assessment Method:** Simulations Using MultiSIM. Y or N for each student **Assessment Method Category:** Other **Success Criterion:** 90% of students are able to create MULTISIM simulation	07/02/2014 - All students showed proficiency in using MultiSIM. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			05/28/2011 - All students taking lab class are proficient with MULTISIM. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
			06/01/2010 - 100% of students showed proficiency in using MultiSIM. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Operate - Operate, safely and properly, multimeters, power supplies, signal generators and oscilloscopes. (Created By CAN Dept - Engineering)	**Assessment Method:** Instructor observation during labs. 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: expert in using equipment **Assessment Method Category:** Presentation/Performance **Success Criterion:** class average of 2 **Related Documents:** Engr261 Assessment.doc	08/20/2012 - 23 out of 24 (or95.8%) of students demonstrated proficiency in using Electronic test & measurement equipment (i.e. voltmeters, oscilloscopes, power supplies) **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls 05/30/2011 - Class average is 2.59 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO1 06/02/2010 - 2.54 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr261-SLOAssessmentData.xlsx	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Build - Build, from schematic diagrams, circuits using resistive, capacitive and inductive elements as well as switches, potentiometers, transistors, operational amplifiers, lamps, decade boxes and power supplies	**Assessment Method:** Instructor observation during labs. 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: able to build and troubleshoot any circuit	08/20/2012 - 24 out of 24 (or 100%) of students are able to read and understand a circuit diagram and build electronic circuits correctly using a circuit diagram. **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	(Created By CAN Dept - Engineering)	**Assessment Method Category:** Presentation/Performance **Success Criterion:** class average of 2.0 **Related Documents:** Engr261 Assessment.doc	2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls 05/30/2011 - Class average is 2.50. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO2 06/02/2010 - 2.38 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Calculate - Calculate dc and ac voltage, current, and power, and experimentally verify the results for a variety of electrical circuits (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on op amp circuits **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** 8.50 class average	05/30/2011 - Class average is 8.64 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO3 06/02/2010 - 8.97 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Design - Design and construct circuits to experimentally verify circuit theorem?s including Ohm?s Law,	**Assessment Method:** Lab on nodal, mesh, superposition, Thevenin and Norton **Assessment Method Category:** Other	05/30/2011 - Class average is 8.56. **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	Rules, superposition, Thevenin, and Norton theorems. (Created By CAN Dept - Engineering)	**Success Criterion:** 8.50 class average	2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO3	
			06/02/2010 - 9.24 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Verify - Experimentally verify the transient behavior of first- and second-order RLC circuits. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on 2nd-order transients **Assessment Method Category:** Other **Success Criterion:** 8.5 class average	05/30/2011 - Class average is 8.86. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO5	
			06/02/2010 - 9.14 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Reports - Write lab reports that evaluate, analyze and summarize results and measurements of circuit behavior, including a discussion of any discrepancies between theoretical and measured results. (Created By CAN Dept - Engineering)	**Assessment Method:** Average of lab reports **Assessment Method Category:** Other **Success Criterion:** 8.50 class average	08/20/2012 - 20 out of 24 (or 83.3%) of students can write clear and concise lab reports communicating experimental procedure, data, results, and conclusions. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls	
			05/30/2011 - Class average is 9.71. **Result Type:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO56	
			06/02/2010 - 9.14 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Simulation - Use a circuit simulation program (PSPICE, MultiSIM) and other computer applications (MATLAB, MS Excel) to predict circuit behavior. (Created By CAN Dept - Engineering)	**Assessment Method:** MultiSIM: 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: very proficient **Assessment Method Category:** Other **Success Criterion:** class average of 2.50	05/30/2011 - Class average is 2.59. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO7	
			06/02/2010 - 3.0 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - crystals - Identify the crystalline structure of models, and explain now the structure?s characteristics affect a material?s properties. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 1. Crystal structure; APF 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit	01/04/2012 - 3.28 average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 01/15/2011 - 3.57 class average	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method Category: Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	**Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
			12/31/2009 - 4.11 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLO1AssessmentData.xlsx	
			12/31/2008 - 4.00 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLOAssessmentData	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - Imperfections - Distinguish between the types of imperfections that can occur in crystalline structures and compare their effects on a material?s properties. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 4: Slip systems; single crystal 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	01/15/2011 - 3.93 class average. Improved from 2009 results (3.18 average). **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
			12/31/2009 - 3.18 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Give at least one quiz on slip systems.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Related Documents: Engr270-Assessments.doc	**Related Documents:** Engr270-SLOAssessmentData 12/31/2008 - 3.5 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - s-s diffusion - Calculate rates of steady-state diffusion. (Created By CAN Dept - Engineering)	**Assessment Method:** Steady State Diffusion Problem on Chapter 5. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** Class average of at least 3.5	01/04/2012 - 3.75 class average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 01/14/2011 - Class average of 3.6 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - mechanical properties - Perform tension, compression, and hardness tests, and interpret the results. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 3: Minimum diameter for given elongation and diameter reduction. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit	01/15/2011 - 3.29 class average **Result Type:** Criterion not met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData 12/31/2009 - 3.55 **Result Type:**	01/15/2011 - Give two separate quizzes on Chapter 6. One on satisfying multiple design criteria.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method Category: Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLOAssessmentData 12/31/2008 - 4.07 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - strengthening mechanisms - Describe different strengthening mechanisms and thermal processing, and compare their effects. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 7: TTT Diagram 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	01/04/2012 - 2.63 class average. **Result Type:** Criterion not met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 01/15/2011 - 3.63 class average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData 12/31/2009 - 3.90 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 12/31/2008 - 3.00 **Result Type:** Criterion not met **Reporting Cycle:**	01/04/2012 - Spend more time on Chapters 9 & 10. Give at least one quiz for each chapter. **Action Plan Category:** Conduct Further Assessment

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2009 - 2010	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - polymers - Relate typical properties of polymers and ceramics to their structures. (Created By CAN Dept - Engineering)	**Assessment Method:** Test 4 Multiple Choice questions. Class average of 12 out of 20 points. **Assessment Method Category:** Exam		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method: Iron oxide (FeO) has the rock salt crystal structure. It has a density of 5.70 g/cm3, and the atomic weights are 55.85 g/mol for Iron, and 16.00 g/mol for Oxygen. a. Calculate the unit cell edge length. b. How does the result in part (a) compare with the edge length as determined from the ionic radii of 0.077 nm for Iron, and 0.140 nm for Oxygen? 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average.	01/04/2012 - 3.25 class average. **Result Type:** Criterion not met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011 Engr270 - Assessment Data Fall2011	01/04/2012 - Give a quiz on cermic crystal structures before Test 4. **Action Plan Category:** Conduct Further Assessment

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - semi-conductors - Describe the mechanisms for electrical conduction in semiconductors. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 8: Doping of Germanium with Antimony 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	01/04/2012 - 3.94 class average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr270 - Assessment Data Fall2011	
			01/15/2011 - 4.04 class average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	
			12/31/2009 - 3.39 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 3.50 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			12/31/2008 - 3.39 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Spend more time on Ch 18.
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Read - Read engineering drawings (Created By CAN Dept - Engineering)	**Assessment Method:** Weekly lab assignments. Labs 1-9. **Assessment Method Category:** Other		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Success Criterion: Average class grade for Labs 1-9 is at least 8 out of 10.		
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Projections - Distinguish between various types of projections used in engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Multiview with Acad(Test 1 Prob 2) 0 - unsatisfactory 1 - satisfactory 2 - outstanding **Assessment Method Category:** Exam **Success Criterion:** 80% of class got 1. Class average is at least 1.0.		
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Draw - Make freehand drawings (Created By CAN Dept - Engineering)	**Assessment Method:** Isometric Sketching 0 - unsatisfactory 1 - satisfactory 2 - outstanding **Assessment Method Category:** Exam **Success Criterion:** 80% of class got 1. Class average is at least 1.0.		
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - Instruments - Demonstrate the use of drawing instruments. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab #5 - Isometric Sketching **Assessment Method Category:** Other **Success Criterion:** Class average grade for Lab 5 is at least 8.		

	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - AutoCad - Demonstrate the use of AutoCAD to create engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Test 1, Problem 1: Orthographic Projections with AutoCAD **Assessment Method Category:** Exam **Success Criterion:** Class average grade of 8 out of 10.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - AutoCad - Demonstrate the use of AutoCAD and SolidWorks to create solid models. Distinguish between various types of projections used in engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Create a solid model using AutoCAD. Create a layout showing standard orthographics views using SOLVIEW/SOLDRAW. 0. not satisfactory 1. satisfactory 2. outstanding **Assessment Method Category:** Exam **Success Criterion:** Class average is at least 1.0. At least 80% of students got a 1 or higher.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Tolerances - Specify dimensions and tolerances in engineering graphics, including Geometric Dimensions and Tolerances. (Created By CAN Dept - Engineering)	**Assessment Method:** PROBLEM NO. 3: Geometric Dimensioning and Tolerancing Starting with the AutoCAD drawing file Test3_3_2007.dwg, add the geometric dimensioning information given below: a. On the right-side view, indicate depth dimension of the object using lower and upper limits of 0.995 and 1.005,		

respectively.

b. Make the right-hand face in the right-side view flat within 0.005. Identify this surface as datum feature A.

c. Make the lower surface in the front view perpendicular within 0.005 relative to primary datum feature A. Identify this surface as datum feature B.

d. Make the right-hand face of the front view perpendicular within 0.005 relative to the primary datum feature A, and secondary datum feature B. Identify this surface as datum feature C.

e. Add basic dimensions to locate the centerlines of the holes in the front view.

f. Dimension the two holes using lower and upper limits of 1.000 and 1.005, respectively. Position these holes to be within 0.004 cylindrical tolerance zone at maximum material condition relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C at maximum material condition.

g. Dimension the width of the slot using lower and upper limits of 2.000 and 1.005, respectively. Position this slot to within a .006 tolerance at maximum material condition relative to primary datum feature B, and secondary datum feature
C.

h. On the front view, add a profile of a surface tolerance of 0.010 relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C applied to the left plane, the fillet, and the top plane between the bottom left corner and the top right corner points.

i. Add remaining necessary dimensions as basic dimensions.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method Category: Other **Success Criterion:** Class average of 20 out of 30.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Drawings - Prepare complete sets of working drawings and assemblies. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on working drawings and assemblies. **Assessment Method Category:** Other **Success Criterion:** Class average of 20 out of 30 points.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** 60% of project prototypes are functional. **Assessment Method Category:** Capstone Assignment/Project		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Proposal - Write a proposal to perform an independent study of an engineering topic or problem. (Created By CAN Dept - Engineering)	**Assessment Method:** Independent Study Form **Assessment Method Category:** Other **Success Criterion:** Success if submitted.		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Literature search - Perform a literature search needed to support an independent study of an engineering topic. (Created By CAN Dept - Engineering)	**Assessment Method:** Student submission of reference list. **Assessment Method Category:** Other **Success Criterion:** Success if submitted.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Written Report - Write a report that evaluates, analyzes and summarizes the results of the independent study following generally accepted guidelines in technical reports. (Created By CAN Dept - Engineering)	**Assessment Method:** Submission of Final Report **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** All students submitted satisfactory final report.		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Oral Presentation - Prepare and deliver an oral presentation of the results of the independent study. (Created By CAN Dept - Engineering)	**Assessment Method:** Oral Presentation of Results of study. **Assessment Method Category:** Presentation/Performance **Success Criterion:** All students should have satisfactory oral presentations.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Design and perform tests or experiments, analyze and interpret data, and prepare a report summarizing the results of the tests or experiments.	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Calculations - Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device. (Created By CAN Dept - Engineering)	**Assessment Method:** Written Report and Class Presentation: Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device." **Assessment Method Category:** Other	06/06/2012 - Class average of 84% on class presentation Class average of 91% on written report **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			06/01/2011 - 100% student pass rate with an overall class average of 87% **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	

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SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Portfolio		
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Exam		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Data - Perform experiments analyze and interpret data, and prepare a report summarizing the results of the experiments. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab Reports - Prepare a summary of the results of an experiment. **Assessment Method Category:** Portfolio		
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** Final Design Project **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** 60% of project prototypes are functional.	03/04/2014 - 84.2% of projects are functional. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 12/31/2012 - 100% of the final projects are functional. **Result Type:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx	
			12/25/2011 - 1.12 Average. All prototypes worked. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
			01/14/2011 - 87.5% of project prototypes are functional. Quality of the projects are higher than previous year despite a more difficult project (Table Jumper). **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Results	
			12/31/2009 - 100% of projects were functional. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - trusses - Analyze trusses, frames, and machines for external reaction forces and forces between the members. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a Truss or a Frame, find the forces in specified members. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor	07/02/2014 - Class average is 3.77. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit	06/04/2013 - Class average is 3.58 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
		Assessment Method Category: Exam **Success Criterion:** Class average of 3.5	**Related Documents:** Engr230-AssmtData-SLO3.xls	
			06/10/2012 - Class average is 3.64. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			Related Documents: Engr230-AssmtData-SLO3.xls	
			05/29/2011 - Class average is 3.96. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
			Related Documents: Engr230-AssmtData-SLO3	
			06/01/2010 - 3.44 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Need to give more quizzes on the chapter on Structures.
			Related Documents: Engr230-AssmtData-SLO3.xls	
			06/01/2009 - 3.75 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2008 - 3.88 **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2009 - 2010	
			06/01/2007 - 3.69 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - centroids - Calculate centroids and moments of inertia for composite bodies. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a composite area, compute the coordinates of the centroid and moments of inertial about the given axes. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit	07/02/2014 - Class average is 4.12 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 4.05 **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO4.xls	
		Assessment Method Category: Exam **Success Criterion:** 3.5 average for the class.	06/10/2012 - Class average is 4.05 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO4.xls	
			05/29/2011 - Class Average is 3.42. Problem given was moment of inertia. **Result Type:** Criterion not met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO4	05/29/2011 - Change HW problems on Chapter 9. Change sample Test 4 to show parallel axis theorem for a composite.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			06/01/2010 - 3.58 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO4.xls	
	CAN Dept - Engineering - CAN ENGR 230 - Engineering Statics - Internal - Solve for internal forces in members and construct shear and bending moment diagrams for beams. (Created By CAN Dept - Engineering)	**Assessment Method:** Given a beam acted on by a distributed load, concentrated forces, and a couple, draw the shear and bending moment diagrams. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: One minor error (two or more algebra errors) 4: One Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 average for the class.	07/02/2014 - Class average is 3.65. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			06/04/2013 - Class average is 3.68. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr230-AssmtData-SLO5.xls	
			06/10/2012 - Class average is 3.53 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr230-AssmtData-SLO5.xls	
			05/29/2011 - Class average is 3.67 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr230-AssmtData-SLO5	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			06/01/2010 - 3.5 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr230-AssmtData-SLO5.xls	
			06/01/2009 - 3.4 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Emphasize graphical method.
			06/01/2008 - 4.08 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
			06/01/2007 - 3.76 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 240 - Engineering Dynamics - plane motion - Derive relations defining the velocity and acceleration of any particle on a rigid body for translation, rotation and general plane motion. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem2: General Plane Motion - velocities and Acceleration **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr240 - Assessments.doc	03/04/2014 - Class average is 4.02 **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/21/2012 - 3.96 class average. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr240-SLOAssessmentData.xlsx	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			12/25/2011 - 4.19 class average. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr240-Assessment Data-2011	
			01/14/2011 - 4.14 class average **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr240-SLOAssessmentData	
			12/31/2009 - 3.45 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Give 2 quizzes on Chapter 15 - one on velocities, and one on accelerations. **Action Plan Category:** Conduct Further Assessment
			12/31/2008 - 4.72 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Operate - Operate, safely and properly, multimeters, power supplies, signal generators and oscilloscopes. (Created By CAN Dept - Engineering)	**Assessment Method:** Instructor observation during labs. 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: expert in using equipment **Assessment Method Category:** Presentation/Performance	08/20/2012 - 23 out of 24 (or95.8%) of students demonstrated proficiency in using Electronic test & measurement equipment (i.e. voltmeters, oscilloscopes, power supplies) **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Success Criterion: class average of 2 **Related Documents:** Engr261 Assessment.doc	**Related Documents:** ENGR261_SP2012_SLO.xls	
			05/30/2011 - Class average is 2.59 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO1	
			06/02/2010 - 2.54 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr261-SLOAssessmentData.xlsx	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Build - Build, from schematic diagrams, circuits using resistive, capacitive and inductive elements as well as switches, potentiometers, transistors, operational amplifiers, lamps, decade boxes and power supplies (Created By CAN Dept - Engineering)	**Assessment Method:** Instructor observation during labs. 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: able to build and troubleshoot any circuit **Assessment Method Category:** Presentation/Performance **Success Criterion:** class average of 2.0 **Related Documents:** Engr261 Assessment.doc	08/20/2012 - 24 out of 24 (or 100%) of students are able to read and understand a circuit diagram and build electronic circuits correctly using a circuit diagram. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls	
			05/30/2011 - Class average is 2.50. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO2	
			06/02/2010 - 2.38	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Result Type: Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Design - Design and construct circuits to experimentally verify circuit theorem?s including Ohm?s Law, Kirchhoff Rules, superposition, Thevenin, and Norton theorems. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on nodal, mesh, superposition, Thevenin and Norton **Assessment Method Category:** Other **Success Criterion:** 8.50 class average	05/30/2011 - Class average is 8.56. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO3	
			06/02/2010 - 9.24 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Verify - Experimentally verify the transient behavior of first- and second-order RLC circuits. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on 2nd-order transients **Assessment Method Category:** Other **Success Criterion:** 8.5 class average	05/30/2011 - Class average is 8.86. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO5	
			06/02/2010 - 9.14 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Simulation - Use a circuit simulation program (PSPICE, MultiSIM) and other computer applications (MATLAB, MS Excel) to predict circuit behavior. (Created By CAN Dept - Engineering)	**Assessment Method:** MultiSIM: 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: very proficient **Assessment Method Category:** Other **Success Criterion:** class average of 2.50	05/30/2011 - Class average is 2.59. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO7	
			06/02/2010 - 3.0 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 270 - Materials Science - mechanical properties - Perform tension, compression, and hardness tests, and interpret the results. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 3: Minimum diameter for given elongation and diameter reduction. 0: No credit 1: Less than 50% of solution is correct 2: One major error (two or more minor errors) 3: one minor error (sign of unit vector, cross product) 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average **Related Documents:** Engr270-Assessments.doc	01/15/2011 - 3.29 class average **Result Type:** Criterion not met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr270-SLOAssessmentData	01/15/2011 - Give two separate quizzes on Chapter 6. One on satisfying multiple design criteria.
			12/31/2009 - 3.55 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:** Engr270-SLOAssessmentData	
			12/31/2008 - 4.07 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 410 - Computer-Aided Graphics - AutoCad - Demonstrate the use of AutoCAD to create engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Test 1, Problem 1: Orthographic Projections with AutoCAD **Assessment Method Category:** Exam **Success Criterion:** Class average grade of 8 out of 10.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Geometry - Apply descriptive geometry principles to solve engineering problems involving points, lines, surfaces and volumes. (Created By CAN Dept - Engineering)	**Assessment Method:** Labs 10-13 on Descriptive Geometry **Assessment Method Category:** Other **Success Criterion:** Class average of at least 8.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - AutoCad - Demonstrate the use of AutoCAD and SolidWorks to create solid models. Distinguish between various types of projections used in engineering drawings. (Created By CAN Dept - Engineering)	**Assessment Method:** Create a solid model using AutoCAD. Create a layout showing standard orthographics views using SOLVIEW/SOLDRAW. 0. not satisfactory 1. satisfactory 2. outstanding **Assessment Method Category:** Exam **Success Criterion:** Class average is at least 1.0. At least 80% of students got a 1 or higher.		
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** 60% of project prototypes are functional. **Assessment Method Category:** Capstone Assignment/Project		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Proposal - Write a proposal to perform an independent study of an engineering topic or problem. (Created By CAN Dept - Engineering)	**Assessment Method:** Independent Study Form **Assessment Method Category:** Other **Success Criterion:** Success if submitted.		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Written Report - Write a report that evaluates, analyzes and summarizes the results of the independent study following generally accepted guidelines in technical reports. (Created By CAN Dept - Engineering)	**Assessment Method:** Submission of Final Report **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** All students submitted satisfactory final report.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Develop a design or system given a set of requirements and specifications.	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Calculations - Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device. (Created By CAN Dept - Engineering)	**Assessment Method:** Written Report and Class Presentation: Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device." **Assessment Method Category:** Other	06/06/2012 - Class average of 84% on class presentation Class average of 91% on written report **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 06/01/2011 - 100% student pass rate with an overall class average of 87% **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2010 - 2011	
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Portfolio		
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Exam		
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - CAD - Demonstrate the use of CAD programs, including solid modeling (Created By CAN Dept - Engineering)	**Assessment Method:** Create a solid model using AutoCAD. Create a layout showing standard orthographics views using SOLVIEW/SOLDRAW. **Assessment Method Category:** Exam **Success Criterion:** 0 - unsatisfactory 1 - satisfactory 2 ? outstanding At least 80% of students receive a 1. Average of the class is at least 1.0	12/31/2012 - 96% of students received at least a 1. Class average is 1.30. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx 01/14/2011 - 92.9% of students received a satisfactory rating. Class average is 1.222 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Data	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** Final Design Project **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** 60% of project prototypes are functional.	03/04/2014 - 84.2% of projects are functional. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/31/2012 - 100% of the final projects are functional. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx	
			12/25/2011 - 1.12 Average. All prototypes worked. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
			01/14/2011 - 87.5% of project prototypes are functional. Quality of the projects are higher than previous year despite a more difficult project (Table Jumper). **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Results	
			12/31/2009 - 100% of projects were functional.	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Result Type: Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - techniques - Evaluate different circuits analysis techniques and choose an appropriate technique for a particular circuit. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem 6 on Assessment (Thevenin, Maximum Power, AC) Maximum Power: 0: No credit 1: only one correct (Zth, Vth, ZL, Pmax) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	07/02/2014 - Class average is 3.91. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014 06/05/2013 - Class average is 3.95. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO2.xls 06/10/2012 - 4.00 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO2.xls 05/28/2011 - Class average is 3.91 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr 260 SLO2 Results 06/01/2010 - 4.15 **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2009 - 2010 **Related Documents:** Engr260-AssmtData-SLO2.xls	
	CAN Dept - Engineering - CAN ENGR 260 - Circuits And Devices - Solution - Synthesize a method of solution to the determine current or voltage in any circuit using a combination Kirchhoff?s Laws, loop and node analysis, the solution of differential equations, generalized impedance and admittance techniques, and phasor methods. (Created By CAN Dept - Engineering)	**Assessment Method:** Problems 4 (1st-order) and 7 (2nd-order) 1st-order: 0: No credit 1: one correct (solution, s-s, initial and tau) 2: two correct 3: Three correct 4: Algebra error 5: Full Credit 2nd-order: 0: No credit 1: one correct (s-s, char. eqn. transient form) 2: 2 correct 3: three correct 4: IC wrong 5: Full credit (or algebra) **Assessment Method Category:** Exam **Success Criterion:** 3.5 class average	06/05/2013 - Class average is 3.43 (3.65 for first-order and 3.22 for second-order circuit). The second-order problem is the last problem on the final, and few students did not even attempt the problem. **Result Type:** Criterion not met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr260-AssmtData-SLO3.xls 06/10/2012 - 3.59 average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr260-AssmtData-SLO3.xls 05/28/2011 - Class average is 3.66. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr 260 SLO3 Results 06/01/2010 - 3.63 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010 **Related Documents:**	06/05/2013 - For next year, move the 2nd-order problem to number 4 on the final exam Students did well on this problem in Test 2. It is possible that the low scores in the final are simply because it is the last problem on the test.

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Engr260-AssmtData-SLO3.xls	
			06/01/2009 - 3.48 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Assign more problems on Chapter 8 - 2nd-order transients.
			06/01/2008 - 3.45 **Result Type:** Criterion not met **Reporting Cycle:** 2009 - 2010	06/01/2010 - Assign more problems on 2nd-order circuits.
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Build - Build, from schematic diagrams, circuits using resistive, capacitive and inductive elements as well as switches, potentiometers, transistors, operational amplifiers, lamps, decade boxes and power supplies (Created By CAN Dept - Engineering)	**Assessment Method:** Instructor observation during labs. 0: zero proficiency 1: some proficiency 2: moderate proficiency 3: able to build and troubleshoot any circuit **Assessment Method Category:** Presentation/Performance **Success Criterion:** class average of 2.0 **Related Documents:** Engr261 Assessment.doc	08/20/2012 - 24 out of 24 (or 100%) of students are able to read and understand a circuit diagram and build electronic circuits correctly using a circuit diagram. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls 05/30/2011 - Class average is 2.50. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO2 06/02/2010 - 2.38 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Design - Design and construct circuits to experimentally verify circuit theorem?s including Ohm?s Law, Kirchhoff Rules, superposition, Thevenin, and Norton theorems. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on nodal, mesh, superposition, Thevenin and Norton **Assessment Method Category:** Other **Success Criterion:** 8.50 class average	05/30/2011 - Class average is 8.56. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO3 06/02/2010 - 9.24 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** 60% of project prototypes are functional. **Assessment Method Category:** Capstone Assignment/Project		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Proposal - Write a proposal to perform an independent study of an engineering topic or problem. (Created By CAN Dept - Engineering)	**Assessment Method:** Independent Study Form **Assessment Method Category:** Other **Success Criterion:** Success if submitted.		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Written Report - Write a report that evaluates, analyzes and summarizes the			

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	results of the independent study following generally accepted guidelines in technical reports. (Created By CAN Dept - Engineering)	**Assessment Method:** Submission of Final Report **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** All students submitted satisfactory final report.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Communicate effectively and work well in situations that require teamwork.	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Calculations - Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device. (Created By CAN Dept - Engineering)	**Assessment Method:** Written Report and Class Presentation: Formulate and perform elementary engineering calculations to aid the selection of the best design for a simple device." **Assessment Method Category:** Other	06/06/2012 - Class average of 84% on class presentation Class average of 91% on written report **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012	
			06/01/2011 - 100% student pass rate with an overall class average of 87% **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Portfolio		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method: Test & labs - Use Excel and MATLAB to study the Hook's law for springs and simple circuit analysis. **Assessment Method Category:** Exam		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Drawings - Read and write elementary engineering drawings, instructions, and reports. (Created By CAN Dept - Engineering)	**Assessment Method:** Project Presentation and lab report- Create an engineering drawing showing the top, front, and right views of your model. **Assessment Method Category:** Presentation/Performance		
		Assessment Method: Project Presentation and lab report- Create an engineering drawing showing the top, front, and right views of your model. **Assessment Method Category:** Portfolio		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Ethics - Explain and analyze ethical issues in engineering (Created By CAN Dept - Engineering)	**Assessment Method:** Case studies **Assessment Method Category:** Portfolio		
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Drawings - Read engineering drawings. (Created By CAN Dept - Engineering)			

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		Assessment Method: Lab on Working Drawings **Assessment Method Category:** Other **Success Criterion:** At least 80% of students get 24 out of 30 points on Lab.	03/04/2014 - 78.9% of the students satisfied the criterion. **Result Type:** Criterion not met **Reporting Cycle:** 2014 - 2015	03/04/2014 - Assign a single 30-point grade for the lab (rather than having three separate grades for each part). Some students did not even attempt to do the last part of the lab because they know that the grade on the last part will/may be dropped as the lowest lab.
			12/25/2011 - 1.22 class average **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Freehand - Make freehand drawings, and demonstrate the use of drawing instruments. (Created By CAN Dept - Engineering)	**Assessment Method:** Isometric Sketching 0 - unsatisfactory 1 - satisfactory 2 - outstanding **Assessment Method Category:** Exam **Success Criterion:** At least 80% of students receive a 1. Average of the class is at least 1.0	03/04/2014 - Class average is 1.21. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/31/2012 - 89% of students received a 1 or 2. Class average is 1.33. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx	
			12/25/2011 - Class average 1.33 **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Engr210-Assessment Data-2011	
			01/14/2011 - 96.4% of students received at least a 1. Class average is 1.296 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr210 Assessment Data	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** Final Design Project **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** 60% of project prototypes are functional.	03/04/2014 - 84.2% of projects are functional. **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
			12/31/2012 - 100% of the final projects are functional. **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 **Related Documents:** Engr210-SLOAssessmentData.xlsx	
			12/25/2011 - 1.12 Average. All prototypes worked. **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** Engr210-Assessment Data-2011	
			01/14/2011 - 87.5% of project prototypes are functional. Quality of the projects are higher than previous year	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			despite a more difficult project (Table Jumper). **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** [Engr210 Assessment Results](#)	
			12/31/2009 - 100% of projects were functional. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 210 - Engineering Graphics - Tolerances - Specify dimensions and tolerances in engineering graphics. (Created By CAN Dept - Engineering)	**Assessment Method:** Problem #3, Test 3: Starting with the AutoCAD drawing file Test3_3_2007.dwg, add the geometric dimensioning information given below: a. On the right-side view, indicate depth dimension of the object using lower and upper limits of 0.995 and 1.005, respectively. b. Make the right-hand face in the right-side view flat within 0.005. Identify this surface as datum feature A. c. Make the lower surface in the front view perpendicular within 0.005 relative to primary datum feature A. Identify this surface as datum feature B. d. Make the right-hand face of the front view perpendicular within 0.005 relative to the primary datum feature A, and secondary datum feature B. Identify this surface as datum feature C. e. Add basic dimensions to locate the centerlines of the holes in the front view.		

| | | f. Dimension the two holes using lower and upper limits of 1.000 and 1.005, respectively. Position these holes to be within 0.004 cylindrical tolerance zone at maximum material condition relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C at maximum material condition.
g. Dimension the width of the slot using lower and upper limits of 2.000 and 1.005, respectively. Position this slot to within a .006 tolerance at maximum material condition relative to primary datum feature B, and secondary datum feature C.
h. On the front view, add a profile of a surface tolerance of 0.010 relative to primary datum feature A, secondary datum feature B, and tertiary datum feature C applied to the left plane, the fillet, and the top plane between the bottom left corner and the top right corner points.
i. Add remaining necessary dimensions as basic dimensions.

Assessment Method Category:
Exam
Success Criterion:
At least 80% of students receive 20 out of 30 points. | | |
| CAN Dept - Engineering - CAN ENGR 261   - Circuits & Devices Lab.
- Build - Build, from schematic diagrams, circuits using resistive, capacitive and inductive elements as well as switches, potentiometers, transistors, operational amplifiers, | **Assessment Method:**
Instructor observation during labs.
 0: zero proficiency
 1: some proficiency
 2: moderate proficiency
 3: able to build and troubleshoot any | 08/20/2012 - 24 out of 24 (or 100%) of students are able to read and understand a circuit diagram and build electronic circuits correctly using a circuit diagram.
Result Type:
Criterion met | |

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	lamps, decade boxes and power supplies (Created By CAN Dept - Engineering)	circuit **Assessment Method Category:** Presentation/Performance **Success Criterion:** class average of 2.0 **Related Documents:** Engr261 Assessment.doc	**Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls 05/30/2011 - Class average is 2.50. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO2 06/02/2010 - 2.38 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Design - Design and construct circuits to experimentally verify circuit theorem?s including Ohm?s Law, Kirchhoff Rules, superposition, Thevenin, and Norton theorems. (Created By CAN Dept - Engineering)	**Assessment Method:** Lab on nodal, mesh, superposition, Thevenin and Norton **Assessment Method Category:** Other **Success Criterion:** 8.50 class average	05/30/2011 - Class average is 8.56. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO3 06/02/2010 - 9.24 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 261 - Circuits & Devices Lab. - Reports - Write lab reports that evaluate, analyze and summarize results	**Assessment Method:** Average of lab reports **Assessment Method Category:** Other	08/20/2012 - 20 out of 24 (or 83.3%) of students can write clear and concise lab reports communicating experimental procedure, data, results, and conclusions.	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	and measurements of circuit behavior, including a discussion of any discrepancies between theoretical and measured results. (Created By CAN Dept - Engineering)	**Success Criterion:** 8.50 class average	**Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 **Related Documents:** ENGR261_SP2012_SLO.xls 05/30/2011 - Class average is 9.71. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** Engr261-AssmtData-SLO56 06/02/2010 - 9.14 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Engineering - CAN ENGR 413 - Designing with CAD - Design - Apply the engineering design process to develop original solutions to engineering problems. (Created By CAN Dept - Engineering)	**Assessment Method:** 60% of project prototypes are functional. **Assessment Method Category:** Capstone Assignment/Project		
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Written Report - Write a report that evaluates, analyzes and summarizes the results of the independent study following generally accepted guidelines in technical reports. (Created By CAN Dept - Engineering)	**Assessment Method:** Submission of Final Report **Assessment Method Category:** Capstone Assignment/Project **Success Criterion:** All students submitted satisfactory final report.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	CAN Dept - Engineering - CAN ENGR 695 - Independent Study - Oral Presentation - Prepare and deliver an oral presentation of the results of the independent study. (Created By CAN Dept - Engineering)	**Assessment Method:** Oral Presentation of Results of study. **Assessment Method Category:** Presentation/Performance **Success Criterion:** All students should have satisfactory oral presentations.		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Formulate a plan of study to obtain a Bachelor?s degree in engineering or computer science.	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Role - Evaluate the role of engineers in various societies around the world and throughout history. (Created By CAN Dept - Engineering)	**Assessment Method:** Quiz, Test **Assessment Method Category:** Exam		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Disciplines - Recommend the types of projects and responsibilities that are the most appropriate for various engineering disciplines. (Created By CAN Dept - Engineering)	**Assessment Method:** Quiz, Test, Written report on typical job functions of engineers. **Assessment Method Category:** Essay	06/06/2012 - Class average of 86% on class presentation Class average of 89% on written report **Result Type:** Criterion met **Reporting Cycle:** 2011 - 2012 05/29/2011 - Assessment via written report: 100% pass rate with average score of 87% Assessment via test question: Average score 1.65 (2-completely correct, 1-partially correct, 0-did not attempt/not correct), all students earned at least a 1 score. **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			2010 - 2011	
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - License - Illustrate the processes required to become an engineer and maintain a license. (Created By CAN Dept - Engineering)	**Assessment Method:** Quiz, Test **Assessment Method Category:** Exam		
	CAN Dept - Engineering - CAN ENGR 100 - Introduction to Engineering - Ethics - Explain and analyze ethical issues in engineering (Created By CAN Dept - Engineering)	**Assessment Method:** Case studies **Assessment Method Category:** Portfolio		