SLO Performance Report

Program: Engineering

Date: 11-02-2019

Terms: Spring 2019, Fall 2018, Summer 2018

ENGRB17L: Electric Circuit Laboratory

Upon completion the student will be able to: use the most basic functions of electrical test and measurement equipment including oscilloscopes, multimeters, function generators and power supplies.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Read circuit schematics and construct linear circuits using resistors, capacitors, inductors, and op amps.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Measure resistance, DC and AC voltages, current, and power, and experimentally verify the results for a variety of electrical circuits.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Test circuits, critically analyze data and compare measured performance to theory.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Use a circuit simulation program and other computer applications to predict or describe circuit behavior.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	2	10.00%	5	25.00%	11	55.00%	2	10.00%	20	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**2**	**10.00%**	**5**	**25.00%**	**11**	**55.00%**	**2**	**10.00%**	**20**	**100.00%**

Using critical and logical methods, troubleshoot and repair simple electric circuits.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Record and document results of lab work using text and graphs.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	2	10.00%	5	25.00%	11	55.00%	2	10.00%	20	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**2**	**10.00%**	**5**	**25.00%**	**11**	**55.00%**	**2**	**10.00%**	**20**	**100.00%**

ENGRB40: Surveying

1. Upon successful completion of the course, the student will perform office computations and design for differential leveling; traversing; area calculations; property/boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; and error analysis.

CSLO not included in any Assessment Rubric

2. Upon successful completion of the course, the student will operate survey equipment: tape, level, transit, theodolite, compass, total station, GPS.

CSLO not included in any Assessment Rubric

3. Upon successful completion of the course, the student will reduce field notes using various mathematical techniques to generate meaningful records describing horizontal and vertical control of landforms.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

4. Upon successful completion of the course, the student will plot plans and maps from field work data using manual and computer-aided drafting.

CSLO not included in any Assessment Rubric

5. Upon successful completion of the course, the student will work effectively in groups during field surveying and engineering design project which involve problem solving, report writing, and oral presentations.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

ENGRB24: Engineering Graphics and Descriptive Geometry

1. Upon successful completion of the course, the student will calculate precision fit tolerances

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	4	100.00%	0	0.00%	0	0.00%	4	100.00%
Fall 2018	0	0.00%	11	91.67%	1	8.33%	0	0.00%	12	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**15**	**93.75%**	**1**	**6.25%**	**0**	**0.00%**	**16**	**100.00%**

2. Upon successful completion of the course, the student will demonstrate use of extrusion process for solid modeling.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	4	100.00%	0	0.00%	0	0.00%	4	100.00%
Fall 2018	1	8.33%	11	91.67%	0	0.00%	0	0.00%	12	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**6.25%**	**15**	**93.75%**	**0**	**0.00%**	**0**	**0.00%**	**16**	**100.00%**

3. Upon successful completion of the course, the student will prepare detailed and assembly drawings for the portfolio

CSLO not included in any Assessment Rubric

4. Upon successful completion of the course, the student will be able to insert text and data in drawings

CSLO not included in any Assessment Rubric

5. Upon successful completion of the course, the student will be apply good dimensioning techniques using CA

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	13	68.42%	4	21.05%	2	10.53%	19	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**13**	**68.42%**	**4**	**21.05%**	**2**	**10.53%**	**19**	**100.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	21	77.78%	4	14.81%	2	7.41%	27	100.00%
Fall 2018	1	4.17%	22	91.67%	1	4.17%	0	0.00%	24	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**1.96%**	**43**	**84.31%**	**5**	**9.80%**	**2**	**3.92%**	**51**	**100.00%**

ENGRB19C: Introduction to Programming Concepts and Methodologies for Engineers

1. Upon successful completion of the course, the student will be able to apply the principles of structured programming.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	2	4.76%	38	90.48%	0	0.00%	2	4.76%	42	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**2**	**4.76%**	**38**	**90.48%**	**0**	**0.00%**	**2**	**4.76%**	**42**	**100.00%**

2. Upon successful completion of the course, the student will be able to apply numerical techniques to analyze and solve engineering-related problems

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	5	11.90%	30	71.43%	1	2.38%	6	14.29%	42	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**5**	**11.90%**	**30**	**71.43%**	**1**	**2.38%**	**6**	**14.29%**	**42**	**100.00%**

3. Upon successful completion of the course, the student will be able to compare computer algorithms and software/hardware interfaces in developing efficient programming code

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	8	12.70%	39	61.90%	10	15.87%	6	9.52%	63	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**8**	**12.70%**	**39**	**61.90%**	**10**	**15.87%**	**6**	**9.52%**	**63**	**100.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	15	10.20%	107	72.79%	11	7.48%	14	9.52%	147	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**15**	**10.20%**	**107**	**72.79%**	**11**	**7.48%**	**14**	**9.52%**	**147**	**100.00%**

ENGRB20: Programming and Problem-Solving in MATLAB

Upon completion the student will be able to:Demonstrate the ability to apply a top down design methodology to develop computer algorithms.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to:Demonstrate the ability to create, test, and debug sequential MATLAB programs, as well as programs that use object-orientated techniques, in order to achieve computational objectives.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to:Explain and apply numeric techniques and computer simulations to analyze and solve engineering related problems.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	5	55.56%	2	22.22%	2	22.22%	9	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**5**	**55.56%**	**2**	**22.22%**	**2**	**22.22%**	**9**	**100.00%**

Upon completion the student will be able to:Demonstrate the ability to use MATLAB effectively to analyze and visualize data.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	6	66.67%	2	22.22%	1	11.11%	9	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**6**	**66.67%**	**2**	**22.22%**	**1**	**11.11%**	**9**	**100.00%**

Upon completion the student will be able to:Demonstrate knowledge, understanding, and the ability to use standard data structures.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	11	61.11%	4	22.22%	3	16.67%	18	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**11**	**61.11%**	**4**	**22.22%**	**3**	**16.67%**	**18**	**100.00%**

ENGRB36: Engineering Mechanics-Statics

Upon completion the student will be able to:Effectively communicate legible problem solutions to be understood by engineers in and out of their specific discipline

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	5	38.46%	4	30.77%	4	30.77%	13	100.00%
Fall 2018	1	2.94%	22	64.71%	6	17.65%	5	14.71%	34	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**2.13%**	**27**	**57.45%**	**10**	**21.28%**	**9**	**19.15%**	**47**	**100.00%**

Upon completion the student will be able to: Determine the forces that act on rigid bodies including external forces, weight, normal, distributed loads, friction and reactions at supports.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Calculate internal forces in members and create shear and bending moment diagrams for beams.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Perform vector analysis methods addressing forces acting on rigid bodies, trusses, frames, and machines.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Analyze two- and three-dimensional force systems on rigid bodies in static equilibrium.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	5	38.46%	4	30.77%	4	30.77%	13	100.00%
Fall 2018	1	2.94%	22	64.71%	6	17.65%	5	14.71%	34	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**2.13%**	**27**	**57.45%**	**10**	**21.28%**	**9**	**19.15%**	**47**	**100.00%**

ENGRB37: Engineering Mechanics-Dynamics

Upon completion the student will be able to:Derive and apply the relationships between position, velocity, and acceleration of a particle in motion.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	4	57.14%	3	42.86%	0	0.00%	7	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**4**	**57.14%**	**3**	**42.86%**	**0**	**0.00%**	**7**	**100.00%**

Upon completion the student will be able to: Derive relations defining the velocity and acceleration of a particle on a rigid body for translation, rotation, and general plane motion.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Apply Newton's second law to analyze the motion of a particle acted upon by forces or a rigid body acted upon by forces and moments..

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Apply the method of work and energy to problems modeled as a single particle, system of particles, or a rigid body.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Apply the method of impulse and momentum to problems modeled as a single particle, system of particles, or a rigid body.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Describe and analyze the motion of a particle relative to a rotating frame.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Apply the principle of impulse and momentum to impact problems.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: Communicate legible and understandable engineering solutions.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	4	57.14%	3	42.86%	0	0.00%	7	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**4**	**57.14%**	**3**	**42.86%**	**0**	**0.00%**	**7**	**100.00%**

ENGRB45: Properties of Materials

3. Evaluate, design and select proper materials for given applications.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	1	3.23%	17	54.84%	10	32.26%	3	9.68%	31	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**3.23%**	**17**	**54.84%**	**10**	**32.26%**	**3**	**9.68%**	**31**	**100.00%**

2.Calculate or estimate material performance based on reference properties or measured values.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to: 1. Analyze the connection between atomic structure and macroscopic behavior in materials.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	1	3.23%	17	54.84%	10	32.26%	3	9.68%	31	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**3.23%**	**17**	**54.84%**	**10**	**32.26%**	**3**	**9.68%**	**31**	**100.00%**

ENGRB47: Introduction to Engineering and Design

Upon completion the student will be able to: Describe the role of engineers in society and classify the different engineering branches, the functions of an engineer, and industries in which they work.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Identify and describe academic pathways to a bachelor's degree.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	29	35.37%	50	60.98%	3	3.66%	82	100.00%
Fall 2018	1	1.03%	19	19.59%	74	76.29%	3	3.09%	97	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**0.56%**	**48**	**26.82%**	**124**	**69.27%**	**6**	**3.35%**	**179**	**100.00%**

Develop and apply effective strategies to succeed academically.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Explain engineering ethical principles and standards.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Demonstrate knowledge of effective practices for writing technical engineering documents and making oral presentations.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	12	40.00%	15	50.00%	3	10.00%	30	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**12**	**40.00%**	**15**	**50.00%**	**3**	**10.00%**	**30**	**100.00%**

Analyze engineering problems using the engineering design process.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	14	46.67%	12	40.00%	4	13.33%	30	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**14**	**46.67%**	**12**	**40.00%**	**4**	**13.33%**	**30**	**100.00%**

Demonstrate teamwork skills in working on an engineering design team.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	19	39.58%	26	54.17%	3	6.25%	48	100.00%
Fall 2018	0	0.00%	6	31.58%	13	68.42%	0	0.00%	19	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**25**	**37.31%**	**39**	**58.21%**	**3**	**4.48%**	**67**	**100.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	74	38.95%	103	54.21%	13	6.84%	190	100.00%
Fall 2018	1	0.86%	25	21.55%	87	75.00%	3	2.59%	116	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**1**	**0.33%**	**99**	**32.35%**	**190**	**62.09%**	**16**	**5.23%**	**306**	**100.00%**

ENGRB17: Introduction to Electric Circuits

Upon completion the student will be able to:Formulate efficient strategies to find unknown voltage, current and power values through circuits based on component arrangement.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	10	34.48%	15	51.72%	4	13.79%	29	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**10**	**34.48%**	**15**	**51.72%**	**4**	**13.79%**	**29**	**100.00%**

Upon completion the student will be able to:Calculate voltage, current and power values at any part of a circuit through simplification and application of basic laws.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Upon completion the student will be able to:Design circuits for desired output values based on selection of components selection.

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**

Totals for CSLOs

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	0	0.00%	10	34.48%	15	51.72%	4	13.79%	29	100.00%
Fall 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**0**	**0.00%**	**10**	**34.48%**	**15**	**51.72%**	**4**	**13.79%**	**29**	**100.00%**

Report Totals:

	N/A		Exceeds expectations		Meets expectations		Does not meet expectations		Total	
Spring 2019	17	3.77%	237	52.55%	155	34.37%	42	9.31%	451	100.00%
Fall 2018	4	1.95%	86	41.95%	104	50.73%	11	5.37%	205	100.00%
Summer 2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Totals	**21**	**3.20%**	**323**	**49.24%**	**259**	**39.48%**	**53**	**8.08%**	**656**	**100.00%**