Assessment Results

2018-19



Program (CENG) - Engineering

University Mission: George Fox University, a Christ-centered community, prepares students spiritually, academically, and professionally to think with clarity, act with integrity, and serve with passion.

Program Mission: Prepare technically competent and broadly educated engineers for a life of responsible service emerging from a Christian worldview.

Alignment With GFU Mission: The Engineering Program mission aligns with the GFU mission in the following ways:

- Embraces the Christian mission
- Promotes academic excellence
- Emphasizes importance of practical knowledge, ethical behavior and critical thinking
- Prepares students for a life of responsible service

Degree Outcomes:

- Ability to apply knowledge of mathematics, science, and engineering
- Ability to design and conduct experiments, as well as to analyze and interpret data
- Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- Ability to function on multi-disciplinary teams
- Ability to identify, formulate, and solve engineering problems understanding of professional and ethical responsibility
- Ability to communicate effectively
- Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- Recognition of the need for and ability to engage in life-long learning
- Knowledge of contemporary issues
- Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Assessment Lead: Mike Foster

Outcomes	Assessment Tools	Results	Actions/Analysis
Outcome 1 - an ability to identify, formulate, and solve complex engineering problems by applying	Survey - Senior Survey Target: 80% of responses are 3 or 4 Schedule for Data Analysis &	Academic Year: 2018 - 2019 Target Met?: Yes 85% of responses are 3 or 4 (10/29/2019)	
principles of engineering, science, and mathematics Outcome Status: Active	Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 88% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017	

Outcomes	Assessment Tools	Results	Actions/Analysis
		Target Met?: Yes 98% of responses are 3 or 4 (05/01/2017)	
	Exam/Quiz - In Course - Rubric (instructor developed) for 1a Target: 80% of rubric scores are 3 or	Academic Year: 2015 - 2016 Target Met?: Yes 97% of responses are 3 or 4 (05/01/2016) Academic Year: 2018 - 2019 Target Met?: No 74% of rubric scores are 3 or 4 (11/07/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 80% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: No 31/46 (67%) of rubric scores are 3 or 4 (05/01/2017)	Action/Analysis: John will try a different approach to prepare students for problem in ENGE 480. (He scored several 2s becausestudents picked the wrong technique but they did solve the problem correctly with a different method) (06/07/2017)
		Academic Year: 2015 - 2016 Target Met?: No 22/34 (65%) of rubric scores are 3 or 4 (05/01/2016)	
	Exam/Quiz - In Course - Rubric (instructor developed) for 1b Target: 80% of rubric scores are 3 or	Academic Year: 2018 - 2019 Target Met?: No 67% of rubric scores are 3 or 4 (11/07/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 78% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: No 34/46 (74%) of rubric scores are 3 or 4 (05/01/2017)	Action/Analysis: John will try a different approach to prepare students for problem in ENGE 480. (He scored several 2s becausestudents picked the wrong technique but they did solve the problem correctly with a different method) (06/07/2017)
		Academic Year: 2015 - 2016 Target Met?: No	wrong technique but they of solve the problem correctly

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Outcomes	Assessment Tools	Results	Actions/Analysis
	Exam/Quiz - In Course - Rubric for 1c (instructor developed) Target: 80% of rubric scores 3 or 4	Target Met?: No 77% of rubric scores are 3 or 4 (11/07/2019)	
	Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 68/84 (81%) of rubric scores are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 11/12 of rubric scores are 3 or 4 (09/12/2017)	
	Exam/Quiz - In Course - Rubric for 1d (instructor developed) Target: 80% of rubric results are 3 or	Academic Year: 2018 - 2019 Target Met?: Yes 104/123 (85%) of rubric scores are 3 or 4 (05/01/2019)	
	4 Schedule for Data Analysis & Reporting: Annual Related Documents: ENGM 211 Final Exam - Outcome (a)	Academic Year: 2017 - 2018 Target Met?: No 89/122 (73%) of rubric scores are 3 or 4 (06/04/2018)	Action/Analysis: data seems to be oscillating about the threshold; expect score to be above threshold next year (06/08/2018)
	- Student 1.pdf ENGM 211 Final Exam - Outcome (a) - Student 2.pdf	Academic Year: 2016 - 2017 Target Met?: Yes 138/148 (93%) of rubric scores are 3 or 4 (05/01/2017)	
	ENGM 211 Final Exam - Outcome (a) - Student 3.pdf ENGM 211 Final Exam - Outcome (a) Results.xlsx ENGM 320 Final Exam - Outcome (a) - Student 1.pdf	Academic Year: 2015 - 2016 Target Met?: Yes 188/235 (80%) of rubric scores are 3 or 4 (05/01/2016)	
	ENGM 320 Final Exam - Outcome (a) - Student 2.pdf ENGM 320 Final Exam - Outcome (a) - Student 3.pdf ENGM 320 Final Exam - Outcome (a) Results.xlsx		
	Exam/Quiz - In Course - Rubric for 1e (instructor developed) Target: 80% of rubric scores 3 or 4	Academic Year: 2018 - 2019 Target Met?: No 73% of rubric scores 3 or 4 (05/03/2019)	
	Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: No 37/49 (76%) of rubric scores are 3 or 4 (06/04/2018)	Action/Analysis: insufficient data to make a decision (due to new assessment tool that replaced FE

Outcomes	Assessment Tools	Results	Actions/Analysis
			Exam data) (06/08/2018)
		Academic Year: 2016 - 2017 Target Met?: Yes 11/12 of rubric scores are 3 or 4 (09/12/2017)	
Outcome 2 - an ability to apply engineering design to produce solutions that meet specified needs	Survey - Senior Survey Target: 80% of responses are 3 or 4 Schedule for Data Analysis &	Academic Year: 2018 - 2019 Target Met?: No 73% of responses are 3 or 4 (10/29/2019)	
with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and	Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: No 78% of responses are 3 or 4 (06/04/2018)	
economic factors Outcome Status: Active		Academic Year: 2016 - 2017 Target Met?: Yes 93% of responses are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 89% of responses are 3 or 4 (05/01/2016)	
	Capstone Assignment - Senior Design - Rubric for Outcome c Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 90% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 78% of rubric scores are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 70/72 of rubric scores with 3 or 4 (09/12/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 44/48 (92%) of rubric scores are 3 or 4 (05/01/2016)	
	Capstone Assignment - Servant Engineering - Rubric for Outcome c Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 86% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: No 78% of rubric scores are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Approaching Target 68/96 (71%) of responses with 3 or 4 (09/12/2017)	

Outcomes	Assessment Tools	Results	Actions/Analysis
Outcome 3 - an ability to communicate effectively with a range of audiences	Survey - Senior Survey Target: 80% of responses are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 82% of responses are 3 or 4 (10/29/2019)	
Outcome Status: Active		Academic Year: 2017 - 2018 Target Met?: Yes 85% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 94% of responses are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 93% of responses are 3 or 4 (05/01/2016)	
	Laboratory Assignment - Rubric for 3a (Writing) Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: No 77% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: No 46/59 (78%) of responses are 3 or 4 (06/04/2018)	Action/Analysis: first year below threshold; watch to see if increase occurs (06/08/2018)
		Academic Year: 2016 - 2017 Target Met?: Yes 46/54 (85%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: No 32/43 (74%) of rubric scores are 3 or 4 (05/01/2016)	
	Presentation/Performance - Rubric 3b (Present to group) - SD team presents to client Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 94% of rubric scores are 3 or 4 (10/29/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 85% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 60/60 (100%) of rubric scores are 3 or 4 (05/15/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 40/40 (100%) of rubric scores are 3 or 4 (05/01/2016)	
	Presentation/Performance - Rubric	Academic Year: 2018 - 2019	

Outcomes	Assessment Tools	Results	Actions/Analysis
	3b (Present to group) - SE team year- end presentation Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Target Met?: Yes 90% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: No 78% of responses are 3 or 4 (06/04/2018)	Action/Analysis: first year below threshold; watch to see if increas occurs (06/08/2018)
	Presentation/Performance - Rubric 3b (Present to group) - presentations in various courses	Academic Year: 2016 - 2017 Target Met?: Yes 67/80 (84%) of rubric scores are 3 or 4 (09/15/2017) Academic Year: 2018 - 2019 Target Met?: Yes 92% of rubric scores are 3 or 4 (11/07/2019)	
	Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis &	Academic Year: 2017 - 2018 Target Met?: Yes 80% of responses are 3 or 4 (06/04/2018)	
	Reporting: Annual	Academic Year: 2016 - 2017 Target Met?: Yes 58/59 (98%) of rubric scores are 3 or 4 (05/01/2017)	
	Presentation/Performance - Rubric 3c (Comm. in meetings) - SD Students	Academic Year: 2018 - 2019 Target Met?: Yes 85% of rubric scores are 3 or 4 (10/29/2019)	
	Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis &	Academic Year: 2017 - 2018 Target Met?: Yes 62/75 (83%) of responses are 3 or 4 (06/04/2018)	
	Reporting: Annual	Academic Year: 2016 - 2017 Target Met?: Approaching Target 40/51 (78%) of rubric scores are 3 or 4 (05/15/2017)	Action/Analysis: Faculty recognized that g3 for SD was below the 80% threshold. Watch next year's scores (06/07/2017)
	Presentation/Performance - Rubric 3c (Comm. in meetings) - SE Students Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2015 - 2016 Target Met?: Yes 35/40 (88%) of rubric scores are 3 or 4 (05/01/2016)	
		Academic Year: 2018 - 2019 Target Met?: Yes 82% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: No 38/49 (78%) of responses are 3 or 4 (06/04/2018)	Action/Analysis: increased from last year; watch to see if increase continues (06/08/2018)
		Academic Year: 2016 - 2017	·

Outcomes	Assessment Tools	Results	Actions/Analysis
		Target Met?: Approaching Target 57/76 (75%) of rubric scores are 3 or 4 (05/15/2017)	
Outcome 4 - an ability to recognize ethical and professional responsibilities in engineering	Survey - Senior Survey Target: 80% of responses are 3 or 4 Schedule for Data Analysis &	Academic Year: 2018 - 2019 Target Met?: No 70% of responses are 3 or 4 (10/29/2019)	
situations and make informed judgments, which must consider the impact of engineering solutions in	Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 83% of responses are 3 or 4 (06/04/2018)	
global, economic, environmental, and societal contexts Outcome Status: Active		Academic Year: 2016 - 2017 Target Met?: Yes 92% of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 95% of responses are 3 or 4 (05/01/2016)	
	Survey - EERI Target: Cumulative average N2_100 Score of 60 or higher Schedule for Data Analysis &	Academic Year: 2018 - 2019 Target Met?: Yes Cumulative average N2_100 Score of 56.0 (n = 49) (05/03/2019)	
	Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: No Cumulative average N2_100 Score of 54.3 (06/04/2018)	Action/Analysis: review threshold in light of average EERI (mid-50's) reported by Carla Z.; move EERI to Sr Seminar to avoid survey fatigue (06/08/2018)
		Academic Year: 2016 - 2017 Target Met?: No Cumulative average = 51 (n = 48) (09/15/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes Cumulative average = 60 (n = 28) (05/01/2016)	
	Survey - EVA Target: 80% of responses are 3 or 4 Schedule for Data Collection:	Academic Year: 2018 - 2019 Target Met?: Yes 91% of responses are 3 or 4 (11/05/2019)	
	Annual Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 88% of responses are 3 or 4 (06/04/2018)	
	Capstone Assignment - Rubric 4c in SD	Academic Year: 2018 - 2019 Target Met?: Yes	

Outcomes	Assessment Tools	Results	Actions/Analysis
	Target: 80% of rubric scores are 3 or	92% of rubric scores are 3 or 4 (11/07/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 16/19 (84%) of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 12/12 (100%) of rubric scores are 3 or 4 (05/15/2017)	
	Capstone Assignment - Rubric 4c in SE Target: 80% of rubric scores are 3 or	Academic Year: 2015 - 2016 Target Met?: Yes 8/8 (100%) of rubric scores are 3 or 4 (05/01/2016) Academic Year: 2018 - 2019 Target Met?: Yes 100% of responses are 3 or 4 (11/05/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 85% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 15/16 (94%) of rubric scores are 3 or 4 (05/15/2017)	
	Capstone Assignment - Rubric 4d in SD Target: 80% of rubric scores are 3 or	Academic Year: 2018 - 2019 Target Met?: Yes 96% of responses are 3 or 4 (11/05/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 80% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 24/24 (100%) of rubric scores are 3 or 4 (05/15/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 13/16 (81%) of rubric scores are 3 or 4 (05/01/2016)	
	Capstone Assignment - Rubric 4d in SE Target: 80% of rubric scores are 3 or	Academic Year: 2018 - 2019 Target Met?: Yes 92% of responses are 3 or 4 (11/05/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: No 78% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017	

Outcomes	Assessment Tools	Results	Actions/Analysis
		Target Met?: Yes 27/32 (84%) of rubric scores are 3 or 4 (05/15/2017)	
Outcome 5 - an ability to function effectively on a team whose members together provide leadership, create a		Academic Year: 2018 - 2019 Target Met?: Yes 91% of responses are 3 or 4 (10/29/2019)	
collaborative and inclusive environment, establish goals, plan tasks, and meet objectives Outcome Status: Active	Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 90% of responses are 3 or 4 (06/04/2018)	
Outcome Status. Active		Academic Year: 2016 - 2017 Target Met?: Yes 99% of responses are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 91% of responses are 3 or 4 (05/01/2016)	
	Survey - CATME in Servant Engineering Target: 80% of responses are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 88% of responses are 3 or 4 (11/08/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 83% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2015 - 2016 Target Met?: Yes 785/946 (83%) of responses are 3 or 4 (09/12/2017)	
		Academic Year: 2016 - 2017 Target Met?: Yes 1529/1791 (85%) of responses are 3 or 4 (09/12/2017)	
	Survey - CATME in Senior Design Target: 80% of responses are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 89% of responses are 3 or 4 (11/08/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 80% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: No 939/1210 (78%) of responses are 3 or 4 (09/12/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes	

Outcomes	Assessment Tools	Results	Actions/Analysis
		85% of responses are 3 or 4 (05/01/2016)	
Outcome 6 - an ability to develop and conduct appropriate experimentation, analyze and	Survey - Senior Survey Target: 80% of responses are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 80% of responses are 3 or 4 (10/29/2019)	
interpret data, and use engineering judgment to draw conclusions Outcome Status: Active		Academic Year: 2017 - 2018 Target Met?: Yes 80% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 92% of responses are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 94% of responses are 3 or 4 (05/01/2016)	
	Laboratory Assignment - Rubric for 6a "Design an Experiment" Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 84% of rubric scores are 3 or 4 (10/29/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 77/81 (95%) of rubric scores are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 58/69 (84%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: No 11/16 (69%) of rubric scores are 3 or 4 (05/01/2016)	
	Laboratory Assignment - Rubric for 6b "Conduct an Experiment" Target: 80% of rubric scores are 3 or	Academic Year: 2018 - 2019 Target Met?: Yes 88% of rubric scores are 3 or 4 (11/07/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 49/59 (83%) of rubric scores are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 45/54 (83%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: No 34/43 (79%) of rubric scores are 3 or 4 (05/01/2016)	

Outcomes	Assessment Tools	Results	Actions/Analysis
	6c "Analyze and Interpret Data" Target: 80% of rubric scores are 3 or 4	Academic Year: 2018 - 2019 Target Met?: Yes 83% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 51/59 (86%) of rubric scores are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: No 43/54 (76.6%) of rubric scores are 3 or 4 (05/01/2017)	Action/Analysis: Faculty acknowledged that the scores were just below the 80% threshold, but they increased from last year. Watch that the trend that continues to increase.
			(06/07/2017)
		Academic Year: 2015 - 2016 Target Met?: No 30/43 (70%) of rubric scores are 3 or 4 (05/01/2016)	
Outcome 7 - an ability to acquire and apply new knowledge as needed, using appropriate learning strategies	Target: 80% of responses are 3 or 4	Academic Year: 2018 - 2019 Target Met?: Yes 93% of responses are 3 or 4 (10/29/2019)	
Outcome Status: Active		Academic Year: 2017 - 2018 Target Met?: Yes 88% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 92% of responses are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 100% of responses are 3 or 4 (05/01/2016)	
	Student Self Assessment - 3 questions on EVA using a Likert-like scale Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: Yes 81% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 83% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes	

Outcomes	Assessment Tools	Results	Actions/Analysis
	Capstone Assignment - Rubric 7b in SD Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis &	53/60 (88%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 77/90 (86%) of rubric scores are 3 or 4 (05/01/2016) Academic Year: 2018 - 2019 Target Met?: Yes 89% of responses are 3 or 4 (11/05/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 66/75 (88%) of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 42/51 (82%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 33/40 (83%) of rubric scores are 3 or 4 (05/01/2016)	
	Capstone Assignment - Rubric 7b in SE Target: 80% of rubric scores are 3 or	Academic Year: 2018 - 2019 Target Met?: No 79% of responses are 3 or 4 (11/05/2019)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 39/49 (80%) of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Approaching Target 56/76 (74%) of rubric scores are 3 or 4 (05/15/2017)	
	Presentation/Performance - Rubric 7b in various classes Target: 80% of rubric scores 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2018 - 2019 Target Met?: No 79% of rubric scores are 3 or 4 (11/07/2019)	
		Academic Year: 2017 - 2018 Target Met?: Yes 140/171 (82%) of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 27/32 (84%) of rubric scores are 3 or 4 (05/15/2017)	
Outcome j - : A knowledge of contemporary issues Outcome Status: Inactive	Survey - Senior Survey Target: 80% of responses are 3 or 4 Schedule for Data Analysis &	Academic Year: 2017 - 2018 Target Met?: No 75% of responses are 3 or 4 (06/04/2018)	Action/Analysis: wait on a decision for j1 since Outcomes a-k were changing to 1-7 in the

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Reporting: Annual

Outcomes	Assessment Tools	Results	Actions/Analysis
			coming year. (06/08/2018)
		Academic Year: 2016 - 2017 Target Met?: No 32/44 (73%) of responses are 3 or 4 (05/01/2017)	Action/Analysis: Student self-assessment scores are below the threshold, but they are improving from past years. Direct assessments indicate students are meeting the threshold. (06/07/2017)
	Writing Assignment - Senior Survey; Faculty review of Senior Survey responses Target: 80% of scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2015 - 2016 Target Met?: No 21/32 (66%) of responses are 3 or 4 (05/01/2016)	
		Academic Year: 2017 - 2018 Target Met?: No 54/69 (78%) of scores are 3 or 4 (06/04/2018)	Action/Analysis: wait on a decision for j1 since Outcomes a-k were changing to 1-7 in the coming year. (06/08/2018)
		Academic Year: 2016 - 2017 Target Met?: Yes 38/44 (86%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: No 19/32 (59%) of rubric scores are 3 or 4 (05/01/2016)	
	Writing Assignment - Rubric j1 Target: 80% of rubric scores are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2016 - 2017 Target Met?: Yes 8/10 (80%) of rubric scores are 3 or 4 (05/01/2017)	
Outcome k - : An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice Outcome Status: Inactive	Survey - Senior Survey Target: 80% of responses are 3 or 4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2017 - 2018 Target Met?: Yes 85% of responses are 3 or 4 (06/04/2018)	
		Academic Year: 2016 - 2017 Target Met?: Yes 83/88 (94%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 59/64 (92%) of rubric scores are 3 or 4 (05/01/2016)	
	Laboratory Research Project - Rubric k1	Academic Year: 2017 - 2018 Target Met?: Yes	

Outcomes	Assessment Tools	Results	Actions/Analysis
	Target: 80% of rubric scores are 3 or	40/45 (89%) of responses are 3 or 4 (06/04/2018)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2016 - 2017 Target Met?: Yes 39/43 (91%) of rubric scores are 3 or 4 (05/01/2017)	
	Laboratory Research Project - Rubric	Academic Year: 2015 - 2016 Target Met?: Yes 27/33 (82%) of rubric scores are 3 or 4 (05/01/2016) Academic Year: 2017 - 2018	
	k2 Target: 80% of rubric scores are 3 or	Target Met?: Yes 36/38 (95%) of responses are 3 or 4 (06/04/2018)	
	4 Schedule for Data Analysis & Reporting: Annual	Academic Year: 2016 - 2017 Target Met?: Yes 60/65 (92%) of rubric scores are 3 or 4 (05/01/2017)	
		Academic Year: 2015 - 2016 Target Met?: Yes 30/32 (94%) of rubric scores are 3 or 4 (05/01/2016)	