Assessment: Course Four Column

Courses (CT) - Surveying

SUR 280:Fundamentals Geomatics I

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Classify measurement error and adjust random error - Classify measurement error and adjust random error **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 10/11/2016	**Exam -** Field Book #1 Laboratory Report #1 Quiz #1 Homework #1 Midterm Exam **Criterion:** 70% of students will score above 80% on the course outcomes. 5 – Excellent – 100% 3 – Satisfactory – 80% 1 – Unsatisfactory – 60% 0 – Not Attempted – 0% Each Student's performance on each assessment is evaluated using the Evaluation Rubric for each Learning Outcome. The data is aggregated for each Learning Outcome resulting in the Results shown above for each Learning Outcome.	**Reporting Period:** 2015-2016 **Criterion Met:** No 1.7/5 (10/11/2016)	**Action:** For the SUR 280 labs, I would like to supplement the existing lab manual with "Surveying Solved Problems" by Jan Van Sickle, PhD, PLS, which includes more than 900 problems representing a broad range of topics on both the fundamentals of surveying (FS) and professional surveying (PS) exams. Each problem gives learners the opportunity to apply the SUR 281 knowledge of theory and equations to assess and strengthen their problem-solving skills. ISBN-13: 978-1-59126-487-3 (10/11/2016)
Record measurements and correct precision - Record measurements and correct precision and present calculations for correct precision **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 10/11/2016	**Exam -** Final Exam Field Book #8 Laboratory Report #8 Quiz #7 Homework #7 Midterm Exam **Criterion:** 70% of students will score above 80% on the course outcomes.	**Reporting Period:** 2015-2016 **Criterion Met:** Yes 3.0 / 5 (10/11/2016)	

Course Outcomes	Assessment Measures	Results	Actions
	5 – Excellent – 100% 3 – Satisfactory – 80% 1 – Unsatisfactory – 60% 0 – Not Attempted – 0% Each Student's performance on each assessment is evaluated using the Evaluation Rubric for each Learning Outcome. The data is aggregated for each Learning Outcome resulting in the Results shown above for each Learning Outcome.		
Conduct a traverse and compute coordinates using traverse measurements - Use survey instrumentation to conduct a traverse and compute coordinates using traverse measurements **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 10/11/2016	**Quiz -** Field Book #7 Laboratory Report #7 Quiz #3 Homework #6 **Criterion:** 70% of students will score above 80% on the course outcomes. Evaluation Rubric 5 – Excellent – 100% 3 – Satisfactory – 80% 1 – Unsatisfactory – 60% 0 – Not Attempted – 0% Each Student's performance on each assessment is evaluated using the Evaluation Rubric for each Learning Outcome. The data is aggregated for each Learning Outcome resulting in the Results shown above for each Learning Outcome.	**Reporting Period:** 2015-2016 **Criterion Met:** Yes 5.0 / 5 (10/11/2016)	
Format survey data and survey calculations - Format survey data and survey calculations, apply statistics to survey calculations, and maintain field book **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 10/12/2016	**Assignment - Lab -** Field Book #1, 2, 3, 4, 5 Laboratory Report #1, 2, 3, 4, 5 **Criterion:** 70% of students will score above 80% on the course outcomes. Evaluation Rubric 5 – Excellent – 100% 3 – Satisfactory – 80% 1 – Unsatisfactory – 60%	**Reporting Period:** 2015-2016 **Criterion Met:** Yes 3.0 / 5 (10/12/2016)	**Action:** Sharing of Excel spreadsheet positive (10/12/2016)

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	0 – Not Attempted – 0% Each Student's performance on each assessment is evaluated using the Evaluation Rubric for each Learning Outcome. The data is aggregated for each Learning Outcome resulting in the Results shown above for each Learning Outcome.		
Spirit-level elevations and conduct peg test - Obtain spirit-level elevations and conduct peg test **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 10/12/2016	**Assignment - Lab -** Field Book #6 Laboratory Report #6 **Criterion:** 70% of students will score above 80% on the course outcomes. Evaluation Rubric 5 – Excellent – 100% 3 – Satisfactory – 80% 1 – Unsatisfactory – 60% 0 – Not Attempted – 0% Each Student's performance on each assessment is evaluated using the Evaluation Rubric for each Learning Outcome. The data is aggregated for each Learning Outcome resulting in the Results shown above for each Learning Outcome.	**Reporting Period:** 2015-2016 **Criterion Met:** Yes 3.0 / 5 (10/12/2016)	
Government agencies in surveying - Discuss role of government agencies in surveying **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 10/12/2016	**Exam -** Final Exam Quiz #6 Midterm Exam **Criterion:** 70% of students will score above 80% on the course outcomes. Evaluation Rubric 5 – Excellent – 100% 3 – Satisfactory – 80% 1 – Unsatisfactory – 60% 0 – Not Attempted – 0% Each Student's performance on each assessment is evaluated using the Evaluation Rubric for each Learning Outcome. The data is aggregated for	**Reporting Period:** 2015-2016 **Criterion Met:** Yes 4.5 / 5 (10/12/2016)	**Action:** This introductory course presents various classical surveying techniques and procedures used in the application, design, and layout of surveying related projects. This course requires weekly homework and laboratory assignments focusing on the observations and computations necessary to solve fundamental surveying related problems. The required laboratory manual for this course details the protocol for each laboratory. Important information on field book

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	each Learning Outcome resulting in the Results shown above for each Learning Outcome.		practice, the application of significant digits to measurements and calculations, and laboratory report format is contained as appendices in the manual. Students are responsible for reading and applying the information contained in the appendices to their field book, homework, and laboratory report submissions for this course. In reality, applying the fundamental principles of error observation and computing precision of measurements is an intricate component within the surveying profession, but may create confusion among the learner in a classroom setting. This material is best augmented hands on in the laboratory. I will incorporate "Surveying Solved Problems" by Jan Van Sickle, PhD, PLS, which includes more than 900 problems representing a broad range of topics on both the fundamentals of surveying (FS) and professional surveying (PS) exams. Each problem gives learners the opportunity to apply the SUR 280 knowledge of theory and equations to assess and strengthen their problem-solving skills. Enhancing the course curriculum with relevant and current practice problems will provide our learners another set of tools to assist in fundamental surveying calculations. During the course of the spring 2016 semester, I was determined to hand-over the SUR 280 course to a PTI instructor. After some long and deep

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			reflection, I have decided that the introduction course needs more work and I must stay with it for another year. No other major changes are required in the administration of this course. (10/12/2016)