**Annual Assessment Report for 2018-2019 AY**

Reports completed on assessment activities carried out during the 2018-2019 AY will be due September 30th 2019 and must be e-mailed to the Director of Assessment, Dr. Melissa Jordine (mjordine@mail.fresnostate.edu).

Provide detailed responses for each of the following questions within this word document. Please do NOT insert an index or add formatting. Furthermore, only report on two or three student learning outcomes even if your external accreditor requires you to evaluate four or more outcomes each year. Also be sure to explain or omit specialized or discipline-specific terms.

Department/Program: Department of Civil and Geomatics Eng., Geomatics Engineering Degree

Assessment Coordinator: Dr. Mike Mustafa Berber

1. Please list the learning outcomes you assessed this year.

(k) an ability to use the techniques, skills, and modern GME tools needed for GME work

(l) an ability to create and or use GME related computer programs

1. What assignment or survey did you use to assess the outcomes and what method (criteria or rubric) did you use to evaluate the assignment? **Please describe the assignment and the criteria or rubric used to evaluate the assignment in detail and, if possible, include copies of the assignment and criteria/rubric at the end of this report.**

In this course, students work in teams and conduct five projects. This is a senior level course. Hence, students are expected to gain ability to use the techniques, skills, and modern GME tools needed for GME work prior to taking this course. In addition, in this course students utilize another GME specific software in order to prepare the lab reports in which students collect GPS data, analyze the data and interpret the results.

1. What did you learn from your analysis of the data? Please include sample size (how many students were evaluated) and indicate how many students (number or percentage instead of a median or mean) were designated as proficient.

The following is the rubric used for assessment.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1 Partially Proficient | 2 Basic Proficiency | 3 Advanced Proficiency |
| Design and Conduct Experiment | Did not design or fully implement an experiment that could produce valid data. | Students designed and implemented an experiment that could produce valid data however did not examine all aspects of the projects. | Additional analysis beyond the minimum to account for all aspects of GPS data with no details left out. |
| Analyze and Interpret Data | Only part of the data was analyzed or interpreted.  | Students use all equations included in the experiment and they conducted and analyze and discuss all data to some extent. | Students use all equations included in the experiment and analyze and discuss the data thoroughly and make inferences based on the data. |
| Ability to work on Teams | All students DID NOT participate in discussions, contribute to brain storming sessions, contribute to load sharing, contribute to improving the quality of the computations and drawings and contribute to the written report. | All students participated in discussions, contribute to brain storming sessions, contribute to load sharing, contribute to improving the quality of the computations and drawings and contribute to the written report. | All students participated to a great extent in discussions, contribute to brain storming sessions, contribute to load sharing, contribute to improving the quality of the computations and drawings and contribute to the written report. Experiment and report were clearly a collective effort.  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Projects** | **Group 1** | **Group 2** | **Group 3** | **Group 4** | **Group 5** |
| Static survey | 90 | 100 | 100 | 100 | 100 |
| Bringing the control into the project area | 90 | 100 | 100 | 100 | 100 |
| Real Time Kinematic survey | 100 | 100 | 100 | 100 | 100 |
| Network RTK survey | 100 | 100 | 100 | 100 | 100 |
| **Averages** | 95 | 100 | 100 | 100 | 100 |

The results indicate that all groups had advanced proficiency.

1. What changes, if any, do you recommend based on the assessment data?

The results indicate that 100% of the class showed an ability to use the techniques, skills, and modern GME tools needed for GME work. Additionally, students proved an ability to create and or use GME related computer programs.

1. If you recommended any changes in your response to Question 4 in last year’s assessment report, what progress have you made in implementing these changes? If you did not recommend making any changes in last year’s report please write N/A as your answer to this question.

N/A

1. What assessment activities will you be conducting during the next academic year?

b) an ability to design and conduct experiments, as well as to analyze and interpret data

d) an ability to function on multi-disciplinary teams

1. What progress have you made on items from your last program review action plan?

I was unable to access the last program review.