

CNM ANNUAL STUDENT LEARNING ASSESSMENT REPORT

Due to the Student Academic Assessment Committee by October 15



PART 1: REPORT INFORMATION

Report Year and Contact Information			
2018-2019	Ronald Forstbauer	rforstbauer@cnm.edu	50912
Academic Year	Contact Person	CNM Email	CNM Office Extension

Subject of this Report
AT--SURVT_CERT--Surveying Technology Certificate

PART 2: CONTEXT IN WHICH THE ASSESSMENT TOOK PLACE

Program/Area Highlights and Successes
(Wherever applicable, include course completion rates, job placement outcomes, and licensing examination pass rates. See the program information dashboard at https://livecnm.sharepoint.com/sites/Dashboards/SitePages/Program%20Information%20Dashboard.aspx (access restricted to CNM employees) and other reports at https://www.cnm.edu/depts/opie .)
In the spring of 2019 one student passed the Fundamentals of Surveying exam administered by the NM Board of Licensure for Professional Engineers and Professional Surveyors. This is the first step to becoming a licensed Professional Surveyor.
In the spring of 2019 three student team won first place in the National Society of Professional Surveyors national surveying competition for 2 year schools.

Changes Implemented During the Past Year in Support of Student Learning
Revised curriculum to reflect trends in technology.

PART 3: REPORT ON ASSESSMENT OF STUDENT LEARNING

Assessment Method	Type of Assessment Tool	Population or Course(s) Assessed	Graduate Learning Outcome(s) Assessed	Mastery Level (E.g., "Minimum score of 3 on a rubric scaled 0-4" or "Minimum score of 75%")	Targeted % Achieving Mastery	Outcome
Homework	Direct & Internal	CM 2205, SUR 2001, SUR 2002, GIS 2008	Demonstrate an understanding of basic surveying equipment and field procedures.	75% grade on measure was the target, 54 out of 63 met target	75%	Target met
Midterm	Direct & Internal	CM 2205, SUR 2001, SUR 2002, GIS 2008	Demonstrate an understanding of basic surveying equipment and field procedures.	75% grade on measure was the target, 52 out of 63 met target	75%	Target met
Final	Direct & Internal	CM 2205, SUR 2001, SUR 2002, GIS 2008	Demonstrate an understanding of basic surveying equipment and field procedures.	75% grade on measure was the target, 48 out of 63 met target	75%	Target met
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Summary of Assessment Findings

The Field Book assessment for CM2205 was dropped because it is too small a sample for the program and as CM 2205 moves toward a hybrid format current assessment methods are being reevaluated.

In the numbers for Homework, Midterm, and Final, there was 1 student that did not complete the course and was excluded.

Interpretation of Assessment Findings

The targets for the three assessment methods were met.

Action Plan in Support of Student Learning (Describe changes to be made that are based at least in part on the assessment interpretation. If the assessment did not yield useful information, describe changes to be made in the assessment methodology and/or criteria.)

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Please select all of the following that characterize the type ; of changes described in the above action plan:

- Assessment criteria revision
- Budgetary reallocation
- Curricular Revision
- Assessment methodology revision
- Change in teaching approach
- Faculty training/development
- Assignment revision
- Course content revision
- Process revision

Recommendations, Proposals, and/or Funding Requests	Budget Needed
While all of the targets were met I will continue to emphasize the importance of mastering soft skills.	Click or tap here to enter text.

PART 4: REMAINING YEARS IN CURRENT ASSESSMENT CYCLE PLAN (including any revisions) – **OR -- UPCOMING ASSESSMENT CYCLE PLAN** (if this was the final year)

Years of Full Cycle	Next Year's Assessment Focus (Describe how the next planned assessment is expected to provide information that can be used toward improving student learning.)
2016-2021	The student learning outcomes are to demonstrate an understanding of basic surveying equipment and field procedures. These will be assessed using homework assignments, midterm exams and final exams.

Graduate Learning Outcomes to Be Assessed	Years in which Assessment Is Planned	Population/Courses to Be Assessed	Planned Assessment Approach
Employ mathematical principles to perform surveying calculations.	Fall 2017, Spring 2018	SUR 1002, SUR 2001, SUR 2002, CM 2205	Homework, Midterm, Final
Demonstrate an understanding of basic surveying equipment and field procedures.	Fall 2018, Spring 2019	CM 2205, SUR 2001, SUR 2002, GIS 2008	Homework Midterm, Final
Apply the legal and ethical basis of surveying principals.	Fall 2019, Spring 2020	SUR 2001, SUR 2002, SUR2096, CM 2205	Homework Midterm, Final
Identify, analyze, and solve surveying problems.	Fall 2020, Spring 2021	CM 2205, SUR 2002, GIS 1005	Homework Midterm, Final
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