

Student Learning Outcomes Assessment Summary

Civil Engineering, MS WES

College of Engineering and Mines

AY 2016-17 and 2017-18

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1. Assessment information collected

During these two academic years, we collected data using two standardized direct assessment mechanisms, and we also tracked the time to graduation. Assessment information is reported for 1 MS EQS (now WES) students that graduated in this two year period.

- 1) Comprehensive exam: Pass with an A grade
- 2) Graduate committee Evaluation results (1-10 scale):
 - a. Knowledge of fundamentals 9.0
 - b. Technical rigor 9.0
 - c. Oral communication 10.0
 - d. Scientific/professional writing 9.3
- 3) Time to Graduation: 2.5 years.

2. Conclusions drawn from the information summarized above

Only one student was graduated in the last cycle, which is much lower than the number of students that graduated last assessment cycle (6). There are number of factors that can be attributed to this. First, the CE department has not been full strength last couple years and has lost several faculty members due to attrition. Two faculty members who advise student in WES degree (Dr. Schiewer and Dr. Stuefer) were on leave for a major part of this cycle. Additionally, Dr. Schnabel accepted an administrative role within the university and had to let go of his faculty role including advisement of graduate students. Finally, several faculty also advised students working on WES topics but who registered for an MS-INDS degree; given that WES is a relatively new program and not many students know about it. So, overall the sharp drop in the numbers is not surprising and we believe the numbers would be back up again as the faculty return to their regular workload, and as more students know about the WES program.

3. Curricular changes resulting from conclusions drawn above

Given only on student graduated this past cycle, no curricular changes were recommended.

4. Identify the faculty members involved in reaching the conclusions drawn above and agreeing upon the curricular changes resulting

The analysis of SLOA results for MS WES for the current reporting cycle were discussed at the Civil Engineering department meeting on May 10th, 2018 with 6 faculty members present (David Barnes, Srijan Aggarwal, Nathan Belz, Il-Sang Ahn, Paul Perreault, Robert Perkins).