

**Outcome F.** An understanding of professional and ethical responsibility.

Course	Performance indicators
CE 301	Develop awareness of professional responsibility.
	Develop awareness and understanding of ethical situations in legal and social context.

Tools used: Course assessment rubrics by faculty, graduating student survey

Data Collection: The data are collected every semester based on the course offerings.

Frequency of data collection: The data are collected every time courses are taught.

Data Analysis: The data obtained are analyzed every year.

Closing the loop: This outcome is subject to review every year based on performance criteria and metrics and specific action items are developed, if necessary, to revise the content of the courses. The analyzed data are presented separately to the following groups in meetings.

- a) Faculty
- b) Advisory Board

*Performance criteria:*

Student performance was evaluated at three levels with associated criteria:

- Below expectation – student’s mastery of subject matter was insufficient. A student performing at this level should not be allowed to take a course that has the evaluated course as a prerequisite.
- Meets expectation – student showed sufficient mastery of the subject that he/she met the prerequisite expectations for any follow on course.
- Exceeds expectation – student mastery of the subject exceeded the minimum expectations for the course.

*Metrics:*

- a) Sophomore Classes, 200 level classes, at least 70 percent of the students should meet or exceed expectations.
- b) Junior classes, 300 level classes, at least 80 percent of the students should meet or exceed expectations.
- c) Senior Classes, 400 level classes, at least 90 percent of the students should meet or exceed expectations.

**Assessment Tool:**

**Course Assessment Rubric by Faculty**

Used for Fall 2013 and subsequent semesters

West Virginia University  
Statler College of Engineering and Mineral Resources  
Department of Civil and Environmental Engineering

### Assessment Rubric for Homework Assignments, Reports, Projects, and Exams

Use one form for each student outcome being evaluated for a class.

Course Name: \_\_\_\_\_ Course Number: \_\_\_\_\_ Date \_\_\_\_\_

Instructor: \_\_\_\_\_ Semester: \_\_\_\_\_ Class Size: \_\_\_\_\_

Brief Description of Assignment: \_\_\_\_\_

Circle Student Outcome Being Assessed: a b c d e f g h i j k

Indicate an overall class performance for the performance indicator based on the percent of students performing below, meeting or exceeding expectations for each performance indicator. The overall class performance identifies the percent of students meeting or exceeding expectations for the student outcomes.

Performance Indicator	Below Expectation	Meets Expectation	Exceeds Expectation	N/A
PI-1				
PI-2				
Overall Class Performance				

Comments: *(use additional sheets if needed)*

*Areas for Continuous Program Improvement (use additional sheets if needed)*

**Assessment Tool:**

**Graduating Student Survey**

# WVU Benjamin M. Statler College of Engineering and Mineral Resources Graduating Senior Survey 2014/15

This portion of the survey asks for contact information regarding alumni events and news.  
Information from this part will be kept separate from the rest of the survey.

*Personal Information:*

Name \_\_\_\_\_

New Mailing Address \_\_\_\_\_

\_\_\_\_\_

Permanent Address (if different) \_\_\_\_\_

\_\_\_\_\_

Email address (permanent) \_\_\_\_\_

Phone number \_\_\_\_\_

Degree Earned \_\_\_\_\_

Department \_\_\_\_\_

*Employer Information:*

Name of Employer \_\_\_\_\_

Job Title \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Country \_\_\_\_\_

Phone Number \_\_\_\_\_

Additional Information \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



To help the assessment activities of the college and your major we ask that you take a few minutes to provide us feedback on your perception of how your undergraduate program prepared you in a number of important educational outcome areas. **All entries will be treated as confidential.**

Please give your assessment for items “a” through “q” and “r”, if it applies, using the following rating scale.

5 -strongly agree; 4 -agree; 3 -neutral; 2 -disagree; 1 -strongly disagree; N/A –not applicable (for r. i. & ii.)

10. Through the education and training I attained with my baccalaureate degree I have acquired the knowledge, skill or ability to:

- a. \_\_\_ Use the basic principles and practices of my engineering discipline
- b. \_\_\_ Recognize available opportunities and need to pursue continuing education and lifelong learning
- c. \_\_\_ Apply knowledge of mathematics to solve equations or systems of equations necessary for the solution of engineering problems
- d. \_\_\_ Apply knowledge of chemistry and physics effectively in solution of engineering problems
- e. \_\_\_ Design and conduct experiments relevant to the needs of my engineering discipline
- f. \_\_\_ Acquire, analyze and interpret data and information relevant to the needs of my engineering discipline
- g. \_\_\_ Design a component, system, or process to meet desired engineering outcomes and needs
- h. \_\_\_ Function on multidisciplinary teams to manage engineering projects
- i. \_\_\_ Translate a general problem description into a specific engineering approach
- j. \_\_\_ Understand professional and ethical responsibilities of a professional engineer
- k. \_\_\_ Effectively communicate my ideas, recommendations, etc. to others verbally
- l. \_\_\_ Effectively communicate my ideas, recommendations, etc. in memos, reports, etc.
- m. \_\_\_ Appreciate the impact of engineering from multi-cultural and global perspectives
- n. \_\_\_ Appreciate my engineering discipline’s impact on contemporary environmental and societal issues
- o. \_\_\_ Conduct economic evaluation of importance cost factors in engineering designs
- p. \_\_\_ Recognize the impact of engineering design on worker or public safety
- q. \_\_\_ Utilize software to solve problems relevant to the needs of engineers practicing my discipline in industry
- r. \_\_\_ If you transferred to WVU from another institution or department how would you agree with the following statements:
  - i. \_\_\_ The procedure for accepting my transfer was relatively seamless and straight forward
  - ii. \_\_\_ The procedure for validating credit for courses taken elsewhere was efficient

**COMMENTS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Note: If you’ve indicated that you are still searching for a job or graduate school, would you be willing to participate in a follow up survey? If so, could you please provide an email address we may use to contact you with the survey? Thanks!*

e-mail: \_\_\_\_\_