



Open Pathways: Testing the Degree Profile Rubric Development

Assessment Day
Marshall University
April 4, 2012





Open Pathways: Testing the Degree Profile: Activity 2 (in part)
March 26 – May 16

1. Make necessary changes to program outcomes and/or to the essential pre-capstone/culminating experience course outcomes.
2. **Develop rubrics for each program outcome. ***





Rubrics

- What is a rubric?
 - A rubric is a scoring guide that specifies the criteria that will be used to evaluate student work.
- Types of rubrics – Suskie (2009)
 - Checklist
 - Rating Scale
 - **Descriptive**
 - Holistic





Advantages of Descriptive Rubrics – Suskie (2009)

- Set clear performance standards
- Let students know our expectations
- Enable students to evaluate their work
- Make scoring easier and faster for instructor
- Make scoring more accurate, unbiased, and consistent
- Improve feedback to students
- Reduce disagreements between instructor and student and among evaluators





Developing a Rating Scale or Descriptive Rubric/Primary Traits Analysis

1. Clarify the important traits associated with the learning goal (outcome).





e.g. Ethical and Civic Thinking

Outcome: Students will assess their own values, examine a variety of viewpoints and evidence, balance theoretical and practical considerations, and propose and evaluate recommendations or solutions that are ethical and supportive of our civic wellbeing.

Trait				
Ethical Self-Awareness				
Professional Rules and Standards of Conduct				
Civic Well Being				
Complex Ethical Issues				





Developing a Descriptive Rubric/Primary Traits Analysis

2. Choose a rating scale that describes levels of performance.
 - Levels should show progression of knowledge and skills as students move from the beginning to the end of your program.
 - Remember that expected competencies at graduation should apply to all students who graduate from Marshall University, i.e.
 - “C” students at the undergraduate level
 - “B” students at the graduate level





Developing a Rating Scale or Descriptive Rubric/Primary Traits Analysis

3. Choose a rating scale with at least three or four levels, e.g.

- Level 1 (Entering), Level 2, Level 3, Level 4 (Professional)
- Novice, Developing, Proficient, Accomplished
- Limited, Novice, Proficient, Mastery, Advanced
- Below Expectation, Meets Expectation, Exceeds Expectation
- Unacceptable, Needs Improvement, Proficient, Advanced





Ethical and Civic Thinking

Outcome: Students will assess their own values, examine a variety of viewpoints and evidence, balance theoretical and practical considerations, and propose and evaluate recommendations or solutions that are ethical and supportive of our civic wellbeing.

Trait/ Performance Levels	Level 1 (Entering)	Level 2	Level 3	Level 4 (Professional)
Ethical Self-Awareness				
Professional Rules and Standards of Conduct				
Civic Well Being				
Complex Ethical Issues				



Developing a Descriptive Rubric/Primary Traits Analysis

4. How to describe levels of performance?

- Some Suggestions
 - Use verbs suggested by Bloom's Taxonomy to complete the cells.
 - Progress from lower to higher levels of cognitive ability.
 - Keep descriptive language positive.
 - Be sure that agreed upon "benchmark" levels set for graduation align with your stated outcomes.

or





Developing a Descriptive Rubric/Primary Traits Analysis

5. Complete cells by

- First, describing performance you expect of students at the time of program completion.
- Second, describing work that is inadequate.
- Last, filling in descriptions for the remaining levels.



Measurable Verbs to Express Bloom's Taxonomy

Benjamin Bloom created a taxonomy of measurable verbs to help us describe and classify observable knowledge, skills, attitudes, behaviors and abilities. The theory is based upon the idea that there are levels of observable actions that indicate something is happening in the brain (cognitive activity.) By creating learning outcomes using measurable verbs, you indicate explicitly what the student must do in order to demonstrate learning.

- **Knowing:** Retrieving, recording, and recalling relevant knowledge from long-term memory.
- **Understanding:** Constructing meaning from oral, written, and graphic messages through interpreting, exemplifying, summarizing, inferring, and explaining.
- **Applying:** Carrying out or using a procedure; using previous knowledge to navigate an unfamiliar situation.
- **Analyzing:** Breaking material into constituent parts; determining how the parts relate to one another and to an overall structure or purpose through differentiating, organizing, and attributing.
- **Evaluating:** Making judgments based on criteria and standards by measuring, diagnosing, and prioritizing.
- **Creating:** Putting disparate elements together to form a coherent or functional whole; reorganizing elements into a new pattern or structure through generating, planning, or producing.

Note: The taxonomy was revised in 2001 by Lorin Anderson (a student of Bloom's) by reversing the top two tiers and moving from nouns (e.g., "knowledge") to verbs (e.g., "knowing"). The list above reflects that revision.

Know	Understand	Apply	Analyze	Evaluate	Create
Define	Articulate*	Act	Analyze	Appraise	Adapt
Identify	Characterize	Administer	Arrange*	Argue	Anticipate
Inventory*	Cite examples	Apply	Break down	Assess	Arrange*
List	Describe	Articulate*	Calculate	Choose	Assemble
Locate*	Diagram*	Choose	Categorize	Compare	Collect
Name	Discuss	Compute	Compare	Conclude	Combine
Recall	Explain	Control	Contrast	Critique	Compose
Record	Express	Demonstrate	Correlate	Determine	Construct
Repeat	Interpret	Dramatize	Debate	Diagnose*	Create
Restate*	Outline*	Employ	Deduce	Estimate	Design
State	Paraphrase	Generalize	Detect	Evaluate	Devise
Underline	Report	Illustrate	Determine	Judge	Develop
	Respond	Imitate	Diagnose*	Justify	Diagram*

Ethical and Civic Thinking

Students will **assess** their own values, **examine** a variety of viewpoints and evidence, **balance** theoretical and practical considerations, and **propose** and **evaluate** recommendations or solutions that are ethical and supportive of our civic wellbeing.

	Level 1 (Entering)	Level 2	Level 3	Level 4 (Professional)
Ethical self awareness	Identifies one's core beliefs and ethical values.	Relates one's core beliefs and ethical values to key life experiences (family, socio-economic background, traumas, gender, ethnic/racial/national traditions, etc.).	Determines bias in one's core beliefs and ethical values.	Modifies one's core beliefs and ethical values based on analysis of the perspectives and experiences of others.
Professional rules and standards of conduct	Names basic professional rules and standards of conduct.	Applies specific professional rules and standards of conduct for a particular profession.	Evaluates the ethical basis of specific professional rules and standards of conduct for a particular profession.	Recommends new professional rules and standards of conduct for a particular profession.
Civic well being & the Disciplines	<p>Describes how a range of professions contributes to the public good.</p> <p>Describes how the public good drives the need for certain professions.</p>	Connects trends in one's own academic field to changes in civic wellbeing.	<p>Evaluates academic theories in the light of concrete experience in the community.</p> <p>Evaluates public policy and community planning in the light of academic theories.</p>	Creates new, more accurate explanations for social problems on the basis of ongoing, discipline-specific civic involvement.
Complex ethical issues	Names a range of basic and obvious ethical issues.	Defines a specific ethical problem and relates it to its larger context.	Analyzes a complex ethical problem in order to determine the unique features of the situation and untangle any competing interests	Evaluates and prioritizes competing interests, theories, and evidence in order make a decision or recommendation about a complex ethical problem.

Compiled by Dr. Sherri Smith, Executive Director of the Center for Teaching and Learning and Associate Professor of English; adapted in part from the AAC& U "Civic Engagement" and "Ethical Reasoning" VALUE Rubrics.

Integrative Thinking Rubric

Learning Outcome: Students will make connections and transfer skills and learning among varied disciplines, domains of thinking, experiences, and situations.

	Level 1 (Entering)	Level 2	Level 3	Level 4 (Professional)
Connections Among Disciplines <i>Makes connections among disciplines.</i>	Identifies examples, facts, or theories from more than one discipline.	Connects examples, facts, or theories from more than one discipline.	Analyzes and/or uses connections of examples, facts, or theories from more than one discipline.	Creates wholes out of multiple parts (synthesizes) or draws conclusions by combining examples, facts, or theories from more than one discipline.
Relation Among Domains of Thinking <i>Distinguishes, compares, and applies varying combinations of the seven core domains of thinking.</i>	Describes and compares and contrasts fundamental elements of the seven domains.	Analyzes and explains how the various domains are being used and relate.	Applies skills from varying core domains in such a way that their interrelation is important to the success of the project.	Devises innovative applications of skills from different domains toward the realization of a project.
Transfer <i>Adapts and applies skills, abilities, theories, or methodologies gained in one situation and/or discipline to other situations and/or other disciplines.</i>	Describes how skills, abilities, theories, or methodologies gained in one situation and/or discipline could be used in other situations and/or other disciplines.	Uses skills, abilities, theories, or methodologies gained in one situation and/or discipline to other situations and/or other disciplines to contribute to understanding of problems or issues.	Adapts skills, abilities, theories, or methodologies gained in one situation and/or discipline to other situations and/or other disciplines to solve problems or explore issues.	Integrates skills, abilities, theories, or methodologies gained in varied situations and/or disciplines to other situations and/or other disciplines to solve <i>difficult</i> problems or explore <i>complex</i> issues in original ways.
Connections to Experience <i>Connects relevant experience and academic knowledge.</i>	Identifies connections between life experiences and those academic texts and ideas perceived as similar and related.	Compares life experiences and academic knowledge to infer differences, as well as similarities.	Selects and develops examples of life experiences drawn from a variety of contexts (e.g., family life, artistic participation, work experience) to illuminate concepts, theories, or frameworks in fields of study and/or extracurricular undertakings.	Synthesizes connections among experiences outside of the formal classroom (including life experiences and academic experiences such as internships and travel abroad) to engage fields of study and/or extracurricular undertakings.



Open Pathways: Testing the Degree Profile: Activity 2

March 26 – May 16

1. Make necessary changes to program outcomes and/or to the essential pre-capstone/culminating experience course outcomes.
2. **Develop rubrics for each program outcome. ***
3. Identify assessment measures for each program outcome (at a minimum of two assessment points, with final being the capstone/culminating experience).
4. Make necessary revisions to program's undergraduate capstone or graduate culminating experience.
5. Submit updated assessment plan. *





Suggestions for how to determine program assessment points

Example (not exhaustive) [see Maki (2004) for other examples]

Course/ Program Outcome	Course 1	Course 2	Course 3	Course 4	Course 5	Capstone/ Culminating Experience
PO 1	X					X
PO2			X			X
PO3		X				X
PO4			X		X	X
PO5		X	X	X		X
PO6	X					X



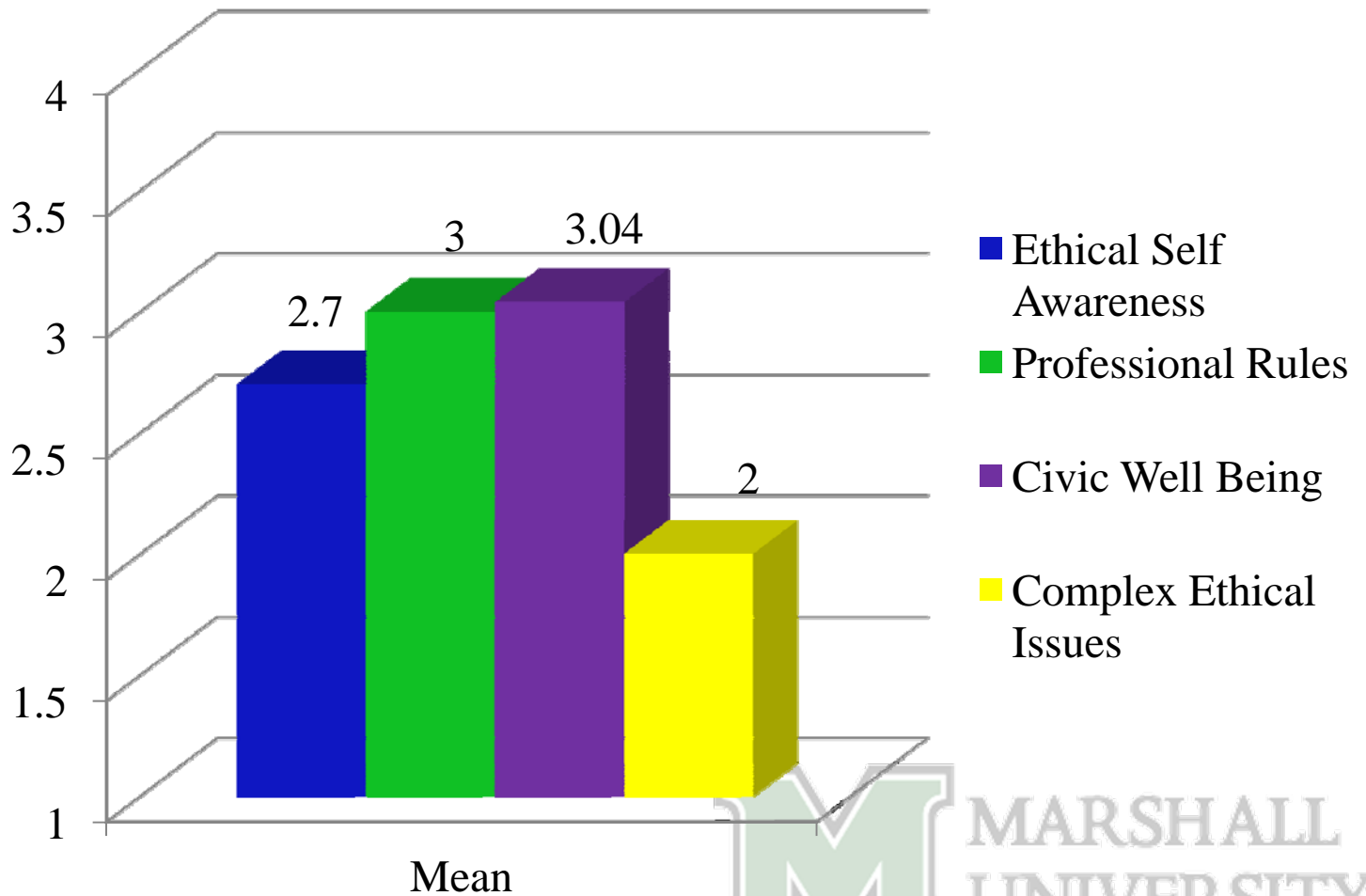
Using a Rubric for Program Assessment Purposes

- Each course instructor
 - Determines mean score for each trait across all students in class
 - Determines percentage of students who scored at each level
 - Chair or program assessment coordinator compiles data from assessments in all courses
- Doing above will identify relative strengths and weaknesses.
- Instructional strategies can be modified to address weaknesses or other improvement plans can be implemented.



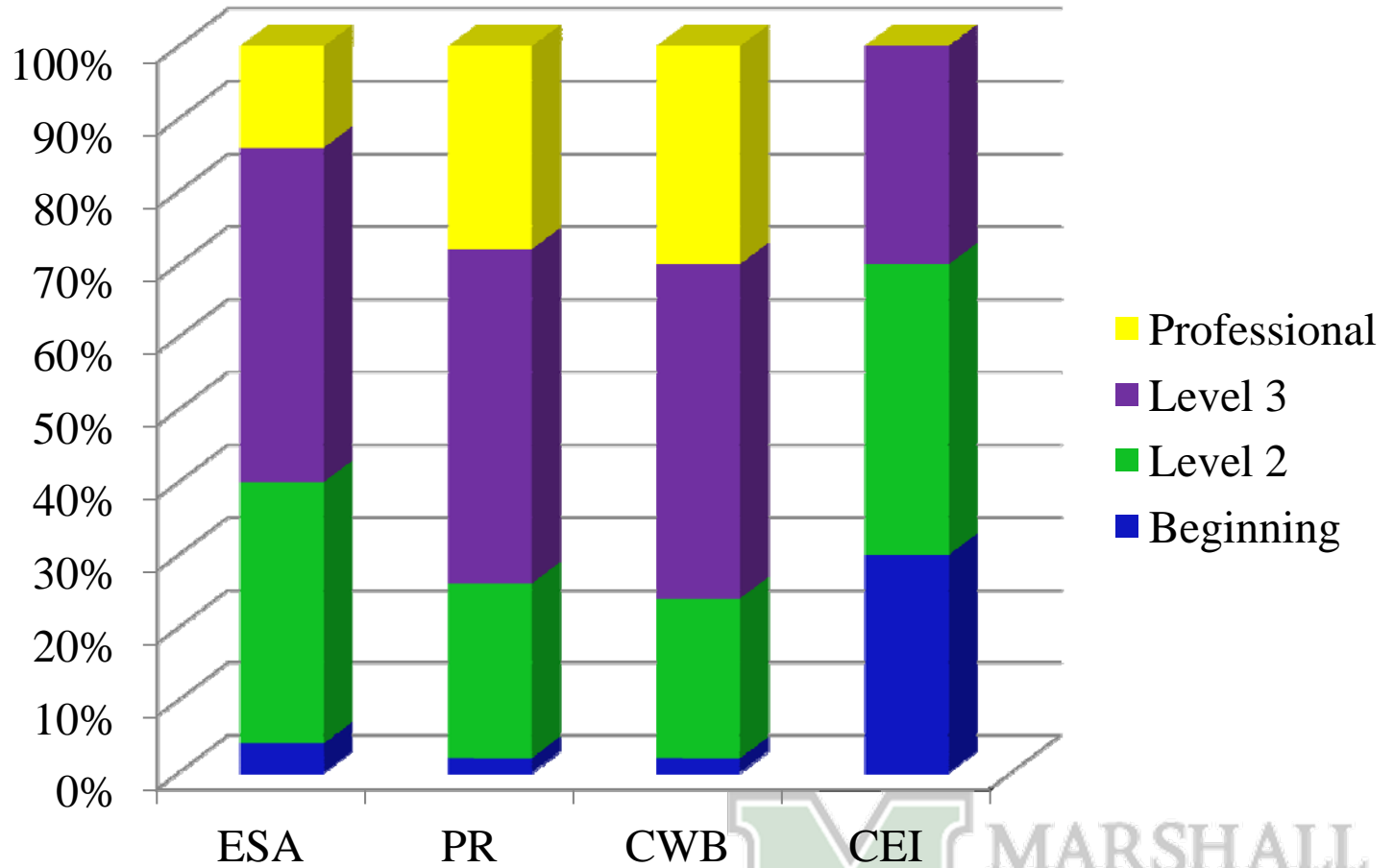


Analysis of Ethical and Civic Thinking Data





Analysis of Ethical and Civic Thinking Data





Resources: Assessment Website

- www.marshall.edu/assessment
 - Entrance to Assessment website
- <http://www.marshall.edu/assessment/Resources/AssessmentResources.aspx>
 - Bloom's Taxonomy of Measurable Verbs
 - AAC&U Value Rubrics





Examples of Descriptive Rubrics can be found in the following sources

- *AAC & U Value Rubrics* can be accessed at
<http://www.aacu.org/value/rubrics/index.cfm>
 - Critical Thinking
 - Inquiry and Analysis
 - Creative Thinking
 - Written Communication
 - Oral Communication
 - Reading
 - Quantitative Literacy
 - Information Literacy
 - Teamwork
 - Problem Solving
 - Civic Knowledge and Engagement – Global and Local
 - Intercultural Knowledge and Competence
 - Ethical Reasoning
 - Foundations and Skills for Lifelong Learning
 - Integrative and Applied Learning





Examples of Descriptive Rubrics can be found in the following sources

- Maki, P. L. (2004). *Assessing for Learning: Building a sustainable commitment across the institution*. Sterling, VA: Stylus Publishing, LLC.
 - Quantitative Reasoning
 - Information Literacy





References

- Maki, P. L. (2004). *Assessing for learning: Building a sustainable commitment across the institution*. Sterling, VA: Stylus Publishing, LLC.
- Rhodes, Terrel, (ed. 2010). *Assessing Outcomes and Improving Achievement: Tips and Tools for Using Rubrics*. Washington, DC: Association of American Colleges and Universities.
- Suskie, L. (2009). *Assessing student learning: A common sense guide (2nd ed)*. San Francisco, CA: Jossey-Bass.





Now It's Your Turn

- Choose one program learning outcome.
- Begin the process of developing a descriptive, analytic rubric to assess student performance on this outcome.

