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EDUCATIONAL PROGRAMS

# **Assessment 201: Advanced Topics in Assessment**

**November 18, 2016**

**University of San Francisco**

**San Francisco, CA**

**Resource Binder**

## **An Opportunity for Your Institution to Develop Assessment Expertise and Leadership**

**March 2017 - January 2018**

**Applications will be accepted November 15, 2016 - February 15, 2017**

### **Purpose of the Academy**

The WSCUC Assessment Leadership Academy (ALA) prepares postsecondary professionals to provide leadership in a wide range of activities related to the assessment of student learning, from facilitating workshops and supporting the scholarship of assessment to assisting administrative leadership in planning, budgeting, and decision-making related to educational effectiveness. ALA graduates have also provided consultation to the WSCUC region and served on WSCUC committees and evaluation teams; some have moved on to new positions with greater responsibilities. The Academy curriculum includes both structured and institutionally-tailored learning activities that address the full spectrum of assessment issues, and places those issues in the national context of higher education policy on educational quality, accreditation, and accountability.

### **Who Should Participate in the Academy?**

Higher education faculty, staff, and administrators who are committed to:

- Developing assessment expertise;
- Serving in an on-going assessment leadership role at their institution;
- Devoting significant time to complete ALA reading and homework assignments.

### **Assessment Leadership Academy Faculty**

ALA participants will interact with and learn from nationally-recognized higher education leaders. Faculty lead interactive class sessions and are available to participants for one-on-one consultations.

#### **Faculty Facilitators of the ALA:**

- **Amy Driscoll**, Former Director of Teaching, Learning, and Assessment, CSU Monterey Bay
- **Carole Huston**, Associate Provost, University of San Diego

#### **Guest Faculty Include:**

- **Peter Ewell**, President Emeritus, National Center for Higher Education Management Systems
- **Adrianna Kezar**, Associate Professor for Higher Education, University of Southern California
- **Jillian Kinzie**, Associate Director, Center for Postsecondary Research & NSSE Institute
- **Kathleen Yancey**, Kellogg W. Hunt Professor of English, Florida State University
- **Laurie Dodge**, Vice Chancellor of Institutional Assessment and Planning, Brandman University (ALA Alum)
- **Kevin Grant**, Assistant Dean of Student Development, Biola University (ALA Alum)
- **Susan Platt**, Executive Director of Assessment, CSU Long Beach (ALA Alum)
- **And others!**

### **Learning Goals**

Participants who complete Academy requirements will acquire foundational knowledge of the history, theory, and concepts of assessment; they will also develop expertise in training and consultation, institutional leadership for assessment, and the scholarship of assessment.

### **Application Deadline and More Information**

Applications for the 2017-18 cohort will be accepted from November 15, 2016 until February 15, 2017.

For more information and application materials, please see **Assessment Leadership Academy** on the WSCUC website <http://www.wascsenior.org/ala/overview>

**Assessment 201: Advanced Topics in Assessment**

November 18, 2016 University of San Francisco San Francisco, CA

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## Assessment 201 Advanced Topics in Assessment

8:30AM-5:00PM November 18, 2016

University of San Francisco

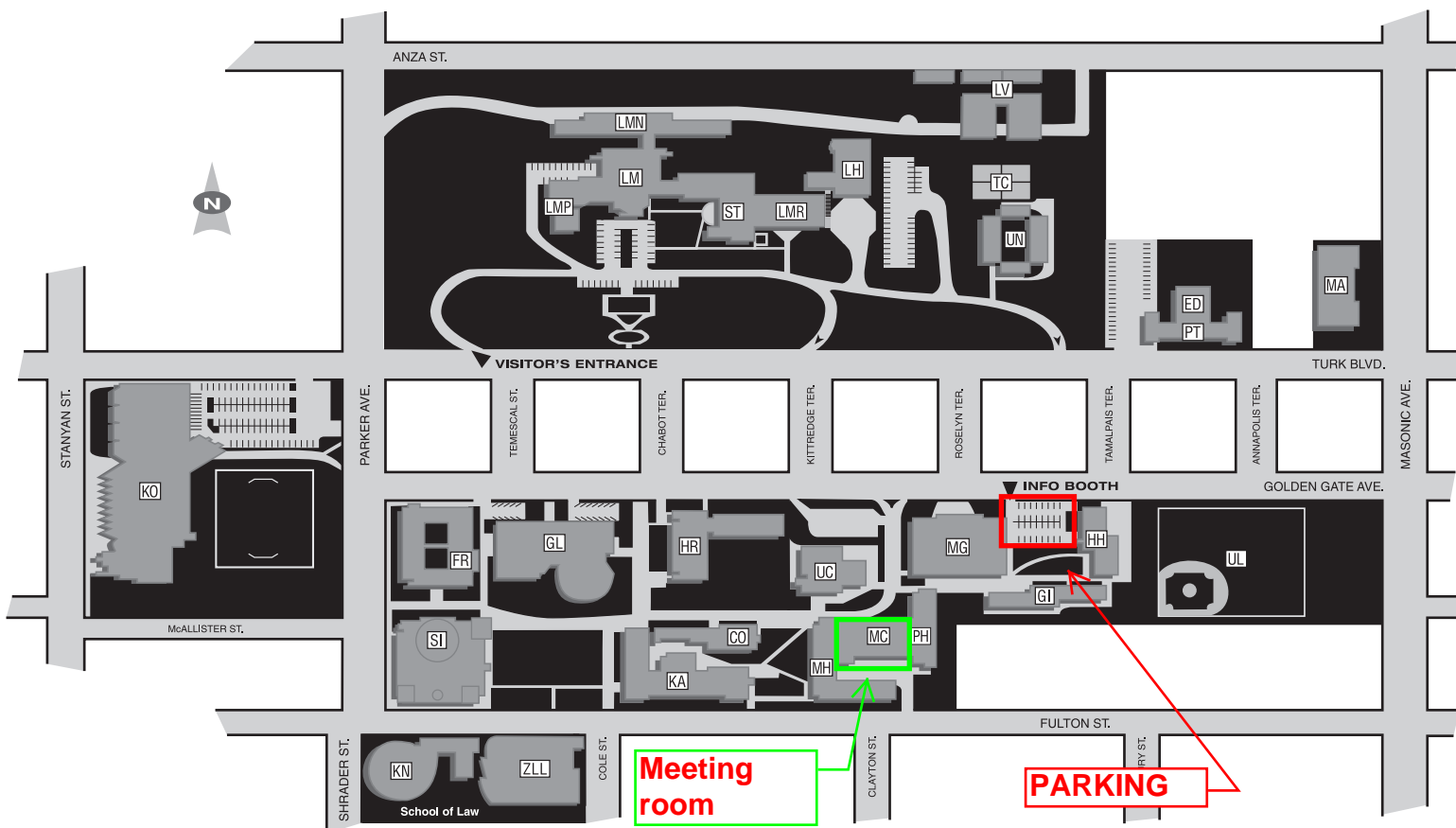
### Workshop Learning Outcomes

As a result of participating in Assessment 201, workshop participants will be able to:

1. Design direct and indirect assessments that align with outcomes.
2. Assess the quality of rubrics.
3. Calibrate reviewers and check for inter-rater reliability.
4. Develop quality evidence.
5. Engage faculty in assessment.
6. Close the loop with multiple strategies of inquiry and decision making.
7. Integrate best practices into the design and reporting of assessments.

### Workshop Schedule

<b>8:00 – 8:30 am</b>	<b>Arrival and Registration</b>
<b>8:30 – 8:40 am</b>	<b>Welcome, Introductions, and Overview of Workshop</b> (Melanie Booth)
<b>8:40 – 10:20 am</b>	<b>Aligning Direct and Indirect Assessment Strategies with Outcomes</b> (Amy Driscoll)
<b>10:20 – 10:35 am</b>	<b>Break</b>
<b>10:35 – 12:05 pm</b>	<b>Reliability and Validity when Using Rubrics</b> (Mary Allen)
<b>12:05 – 12:50 pm</b>	<b>Lunch</b>
<b>12:50 – 1:20 pm</b>	<b>Developing Quality Evidence</b> (Amy Driscoll)
<b>1:20 – 2:30 pm</b>	<b>Engaging Faculty in Assessment</b> (Mary Allen and Amy Driscoll)
<b>2:30 – 2:45 pm</b>	<b>Break</b>
<b>2:45 - 3:30 pm</b>	<b>Closing the Loop</b> (Amy Driscoll)
<b>3:30 – 4:50 pm</b>	<b>Integrating Best Practices into the Design and Reporting of Assessments</b> (Mary Allen)
<b>4:50 – 5:00 pm</b>	<b>Implementation Ideas and Insights</b>



### Main Campus

- CO Cowell Hall
- FR Fromm Hall
- GI Gillson Hall
- GL Gleeson Library
- HH Hayes-Healy Hall
- HR Harney Science Center
- KA Kalmanovitz Hall
- MC McLaren Conference Center**
- MG Memorial Gymnasium
- MH Malloy Hall
- PH Phelan Hall
- SI Saint Ignatius Church
- UL Ulrich Field & Benedetti Diamond
- UC University Center

### Lone Mountain Campus

- LH Loyola House
- LM Main Bldg/Classrooms/Study Hall
- LMN Lone Mountain North
- LMP Pacific Wing
- LMR Rossi Wing/Administration
- LV Loyola Village
- ST Studio Theater
- TC Tennis Courts
- UN Underhill Building
- ROTC/Upward Bound

### School of Law

- KN Kendrick Hall
- ZLL Dorraine Zief Law Library

### Koret Health & Recreation Center

- KO Koret Center

### School of Education

- ED School of Education
- PT USF Presentation Theater

### 281 Masonic

- MA 281 Masonic

## Office Locations

**Academic and Enrollment Services**  
Lone Mountain Main

**Academic Support Services**  
Gleeson Lower Level, 20

**Admission Office**  
Lone Mountain Main

**Alumni Office**  
Lone Mountain Rossi Wing, 112

**Arts and Sciences, College of**  
Harney, 240

**Athletics**  
Memorial Gym, Lower Level

**Bookstore**  
University Center, Lower Level

**Career Services Center**  
University Center, 5th Floor

**Counseling Center**  
Gillson, Ground Floor

**Education, School of**  
Turk at Tamalpais, 107

**Financial Aid**  
Lone Mountain Main

**Intercultural Center**  
University Center, 4th Floor

**Information Technology Services**  
Lone Mountain North, 2nd Floor

**International Student and Scholar Services**  
University Center, 5th Floor

**Koret Health and Recreation Center**  
Corner of Parker and Stanyan

**Law Library, Dorraine Zief**  
Corner of Fulton and Cole

**Law, School of**  
Corner of Fulton and Shrader

**Loyola House/Jesuit Community**  
Lone Mountain, 2600 Turk Street

**Management, School of**  
Malloy Hall, 244

**One Card**  
Lone Mountain Main, 130

**One Stop Enrollment and Financial Services**  
Lone Mountain Main, 250

**Nursing and Health Professions, School of**  
Cowell, 102

**Public Safety**  
University Center, 310

**Registrar's Office**  
Lone Mountain Main, 250

**Residence Life**  
University Center, 5th Floor

**Student Leadership and Engagement**  
University Center, 4th Floor

**Student Disability Services**  
Gleeson Lower Level, 20

## Assessment 201: Advanced Topics in Assessment

### Lead Facilitators

#### **Mary J. Allen**

**Mary J. Allen**, Ph.D. is a consultant in higher education, specializing in assessment and accreditation. She is the former director of the California State University Institute for Teaching & Learning and a professor emerita of Psychology from California State University, Bakersfield. Mary has published books on the assessment of academic programs and general education, and she has offered assessment presentations and workshops at AAHE, AAC&U, SACS, and WASC conferences. She is a sought after speaker, consultant, and workshop presenter and has worked with over 150 colleges, universities, and college systems.

**Email:** mallen23@csub.edu

#### **Amy Driscoll**

**Amy Driscoll** was former director of teaching, learning, and assessment at California State University, Monterey Bay, where she developed an institutional approach to outcomes-based education. Prior to that she served as the director of community/university partnerships at Portland State University, where she initiated community-based learning and community Capstones. She has presented at AAC&U conferences and the National Assessment Institute and has mentored more than 60 institutions in assessment. Her books include *Taking Ownership of Accreditation: Processes That Promote Institutional Improvement and Faculty Engagement* (Driscoll & Cordero de Noriega, 2006), and *From Outcomes-based Assessment to Learner-centered Education* (Driscoll & Wood, 2007)

**Email:** amym.driscoll@comcast.net

# Attendee Directory

## Assessment 201: Advanced Topics in Assessment

University of San Francisco, San Francisco, CA

November, 18 2016

First Name	Last Name	Job Title	Institution	Email
Ellen	Burke	Faculty - Landscape Architecture	Cal Poly San Luis Obispo	eburke02@calpoly.edu
Jack	Phelan	Academic Assessment Director	Cal Poly San Luis Obispo	jpgphelan@calpoly.edu
Josh	Machamer	Dept Chair, Member, Academic Assessment Council	Cal Poly San Luis Obispo	jmachame@calpoly.edu
Marc	Horney	Animal Science Faculty	Cal Poly San Luis Obispo	mhorney@calpoly.edu
Sean	Hurley	Agribusiness Faculty	Cal Poly San Luis Obispo	shurley@calpoly.edu
Dawn	Janke	Director, Writing and Rhetoric Center	Cal Poly SLO	djanke@calpoly.edu
Jennifer	Nguyen	Student Center for Academic Achievement Director	California State University East Bay	jennifer.nguyen@csueastbay.edu
Lisa	Tran	Professor	California State University, Fullerton	lisatran@fullerton.edu
Rajuno	Ettarh	Associate Dean of Assessment	California University of Science and Medicine	ettarhr@calmedu.org
Tina	Kandakai	Exe. Director Development and Assessment	Charles R. Drew University	tinakandakai@cdrewu.edu
Carol	Dell'Amico	Lecturer	CSU-Bakersfield	cdellamico@csub.edu
Thao	Phi	Assistant to the Dean of Students	Dharma Realm Buddhist University	thao.phi@drbu.org
Steven	Schapiro	Dean for Academic Affairs, and ALO	Fielding Graduate University	sschapiro@fielding.edu
Reshela	DuPuis	Institutional Assessment Coordinator	Hawaii Community College	reshelad@hawaii.edu
Jaron	Hightower-Mills	IR and Assessment Administrator	International Technological University	jhightowermills@itu.edu
Kevin	McLemore	Institutional Research Analyst	John F. Kennedy University	kmclemore@jfku.edu
Helena	Simon	Project Coordinator Program Assessment	John F. Kennedy University	hmarsala@jfku.edu
Pamela	Zimba	Assistant Professor of Law	John F. Kennedy University	pzimba@jfku.edu
Lisa	Hutton	Professor and Chair, Legal Studies Department	John F. Kennedy University	lhutton@jfku.edu
Matthew	Bruce	Project Director of Program Assessment	John F. Kennedy University	mbruce@jfku.edu
Laura	Palazzolo	Dean	Lincoln Law School of San Jose	dean@lincolnlawsj.edu
Laura	Alipoon	Department Chair	Loma Linda University	lalipoon@llu.edu
Leo	Ranzolin	Associate Dean, School of Religion	Loma Linda University	lranzolin@llu.edu
Carman	Wimsatt	Assessment Consultant	Los Angeles Community College District	wimsattcy@gmail.com
Elizabeth	Sturgeon	Assessment Committee Co-Chair & Associate Professor of English	Mount Saint Mary's University	esturgeon@msmu.edu
Bruce	Matthes	Director of Integrative Studies	NewSchool of Architecture & Design	bmatthes@newschoolarch.edu
Allison	Riley	English Language Program Coordinator	NewSchool of Architecture and Design	ariley@newschoolarch.edu
Carmen	Fernandez	President	Northern Marianas College	carmen.fernandez@marianas.edu
Jacqueline	Che	Director of Institutional Effectiveness	Northern Marianas College	jacqueline.che@marianas.edu
chavel	green	Department Chair, Business	Northern Marianas College	chavel.green@marianas.edu
Paul	Choi	Executive Vice President	Northwestern Polytechnic University	paul.choi@npu.edu
Nelly	Mangarova	Chief Academic Officer	Northwestern Polytechnic University	nelly.mangarova@npu.edu
Carolyn	Brighouse	Associate Dean, Social Sciences / Core Curriculum and Student Issues; Professor, Phill/Cog Psy	Occidental College	brighouse@oxy.edu
Ester	Rogers	Director of Institutional Assessment and Accreditation	Occidental College	erogers2@oxy.edu
Ellie	Kaucher	Vice President of Academic Affairs	Phillips Graduate University	ekaucher@pgu.edu
Mary	Coffey	Associate Dean of the College	Pomona College	mcoffey@pomona.edu

# Attendee Directory

## Assessment 201: Advanced Topics in Assessment

University of San Francisco, San Francisco, CA  
November, 18 2016

First Name	Last Name	Job Title	Institution	Email
Ben	Sanders	Executive Director	Reach Institute for School Leadership	bsanders@reachinst.org
Frances	Sweeney		Saint Mary's College of California	fsweeney@stmarys-ca.edu
Sarah Beth	Dempsey		Saint Mary's College of California	sdd4@stmarys-ca.edu
Alice	Baldrige		Saint Mary's College of California	amb19@stmarys-ca.edu
Aeleah	Soine		Saint Mary's College of California	ahs3@stmarys-ca.edu
Jonas	Wright	Associate Dean, Academic Affairs	San Francisco Conservatory of Music	jwright@sfc.edu
Jennifer	Swanson	Associate Director, Writing Across the Curriculum/Writing in the Discipline	San Francisco State University	jmpeters@sfsu.edu
Juliana	van Olphen	Director, Writing Across the Curriculum/Writing in the Discipline	San Francisco State University	jvo@sfsu.edu
Elaine	Collins	Associate Dean College of Science	San Jose State University	elaine.collins@sjsu.edu
Chris	Tseng	Professor of Computer Science and Director of Assessment	San Jose State University	chris.tseng@sjsu.edu
Rachel	Napolin	Director of Academic Affairs	Saybrook University	rnapolin@saybrook.edu
Theopia	Jackson	Program Director	Saybrook University	tjackson@saybrook.edu
Nami	Kim	Assistant Provost	Saybrook University	nkim@saybrook.edu
Devorah	Curtis	Director of Mentoring/Director of MS MBM Program	Saybrook University	dcurtis@saybrook.edu
Randy	Snook	Professor	Sierra College	rsnook@sierracollege.edu
Michelle	Macfarlane	Professor - Agriculture, SLO Assistant	Sierra College	mmacfarlane@sierracollege.edu
Jason	File	Professor - Humanities, SLO Assistant	Sierra College	jfile@sierracollege.edu
Sonia	Klenner	Professor	Sierra College	sklenner@sierracollege.edu
Erin	Littlepage	Assessment Specialist	Stanislaus State	elittlepage@csustan.edu
Gabriela	Romo	Student Learning Outcomes Assessment Manager	Universidad de Las Américas	gabriela.romo@udla.edu.ec
Jessica	Lopez	Academic Programs Manager	University of San Diego	lopezja@sandiego.edu
Tracy	Benning	Associate Professor, Environmental Science	University of San Francisco	tlbenning@usfca.edu
Yaniv	Stopnitzky	Assistant Professor of Economics	University of San Francisco	ystopnitzky@usfca.edu
Gretchen	Coffman	Assistant Professor of Environmental Science	University of San Francisco	gccoffman@usfca.edu
Xavier	Gomez	Sr. Instructional Designer	University of San Francisco	xgomez@usfca.edu
Christine	Young	Associate Professor, Performing Arts & Social Justice Program	University of San Francisco	cyoung8@usfca.edu
Shawn	Calhoun	Associate Dean	University of San Francisco	calhouns@usfca.edu
Alexandra	Amati-Camperi	Professor of Music	University of San Francisco	camperia@usfca.edu
Mouchumi	Bhattacharyya	Professor of Statistics	University of the Pacific	mbhattac@pacific.edu
Alison	Chong	Faculty	weimar institute	ageslani@weimar.edu
Maryanne	Krueger	Librarian and Student Success Coordinator	Weimar Institute	happythehome@gmail.com
Ron	Celestine	Faculty	weimar institute	rcelestine@weimar.edu
George	Araya	Education Department Chair	weimar institute	garaya@weimar.edu
Teri	Salvador	Director of Student Services	weimar institute	tsalvador@weimar.edu
Glenn	Hill	Professor of Religion	Weimar Institute	ghill@weimar.edu
Flavia	Jorge	Psychology Department Chair	Weimar InstituteInstitute	lmfjorge@yahoo.com



# **Aligning Direct and Indirect Assessment Strategies with Outcomes**

**Amy Driscoll**

# Direct (Learner-centered) Assessment: Blending Teaching and Learning

Amy Driscoll

## Direct and Learner-centered Assessment

- ▶ Many traditional examples  
(tests/exams, cases, projects,  
performances, essays, tasks,  
simulations, practicum/internships)
- ▶ Signature Assignments
- ▶ Portfolios
- ▶ Capstones
- ▶ Reflections

## Signature Assignments: What and How?

- ▶ A generic task, problem, case, or project that can be tailored or contextualized in different disciplines or course contexts.
- ▶ Signatures are defining characteristics that reveal thinking or practices (Shulman, 2005).
- ▶ Signature assignments have the potential to help us know whether student learning reflects “the ways of thinking and doing of disciplinary experts”.

## Characteristics of Signature Assignments

- ▶ Course-embedded assessment
- ▶ Well aligned with LO's
- ▶ Authentic in terms of process/content, “real world” application
- ▶ May include reflection
- ▶ Collaboratively designed by faculty

## **When/Why Signature Assignments Are Appropriate and Useful**

- ▶ In general education when multiple courses meet common requirements and shared LO's – provides a common data set to enable documentation of general education LO's being met.

## **Why and When?**

When multiple sections of the same course are offered by multiple faculty with varied pedagogy – enables programs to collect common data across the course sections for program evaluation and review at both graduate and undergraduate levels.

## Why and When?

- ▶ When Institutional Learning Outcomes (ILO's) are met in varied programs and departments across the institution – provides a common data set which enables the institution to determine whether graduates are meeting the ILO's

## Why and When?

- ▶ For use in a foundational course on a grad or undergrad level, like PSY 500 or Intro to Computer Science to check that students are prepared with prerequisite understandings and skills for success in the courses that follow within the program.

## Design Process for Signature Assignments

1. Faculty review one or more of the agreed upon targeted learning outcomes and come to a common interpretation of them.
2. Faculty use the learning outcomes to brainstorm possible and aligned tasks, problems, examples, authentic problems. (these are often suggested within the outcomes)

## Taking Apart A Learning Outcome:

- EX. Students analyze a \_\_\_\_\_ issue from multiple perspectives and form a personal position of agreement/support or action.

### Possible tasks:

- Articulate and analyze an issue
- Identify sources of perspectives
- Describe multiple perspectives
- Develop a position statement

## Connecting to Contexts

▸ Kinds of Issues:

sociological	business
educational	scientific
technological	ethical
artistic	historical
economic	international
community	political

## Design Process con't

3. First draft of the assignment is intentionally generic (in context) to allow for multiple disciplines and contexts.
4. Assignment is tailored for varied course or disciplinary contexts.
5. All faculty users agree to the use and to collaborative review of student work samples.
6. Faculty engage in conversations about expectations in student work, preferably design a rubric.

## Advantages of Signature Assignments

- ▶ Promote faculty discussions of student learning, pedagogy, assessment (culture of learning)
- ▶ Provides significant common data sets to document program or institutional impact
- ▶ Engages students in important learning activities
- ▶ Guides pedagogy especially practice for learning
- ▶ Has potential for application or transfer to another department or institution for informative comparisons

## Disadvantages of Signature Assignments

- ▶ Require time for development
- ▶ May be translated as rigid or confining of curriculum or pedagogy
- ▶ Requires faculty agreement



## Practice with Signature Assignments

- ▶ LO Students design management systems that include staffing, budget, evaluation, organization, and strategic plan. NON-PROFIT COMMUNITY STUDIES, EDUCATION ADMINISTRATION
- ▶ LO Students develop needs assessments, analyze data, and design community-based responses to the findings. PUBLIC HEALTH, SOCIAL WORK
- ▶ LO Students collaborate to produce public art that reflects community context. ART MEDIA, MULTICULTURAL STUDIES

## Portfolios: Making a Difference

- ▶ **Clear educational purpose** (not repositories)
- ▶ **Students' participation** in selecting contents using faculty selection criteria
- ▶ **Regularly evaluated** with established criteria
- ▶ Illustration of **growth**
- ▶ **Continual updating**
- ▶ **Student reflection** with potential for synthesis and metacognition

## WHEN to use Portfolios?

- ▶ For almost any learning experience at both undergraduate and graduate levels
- ▶ Especially appropriate for courses and programs focused on thinking skills and on developing synthesis and metacognition
- ▶ For courses and programs with small numbers of students
- ▶ For self-designed programs

## Advantages of Portfolios

- ▶ It helps students and faculty to look at learning holistically – to see connections – to present a composite of different kinds of learning.
- ▶ It goes beyond achievement of outcomes and looks at learning over time.
- ▶ It encourages students to be actively involved in their learning.

## Advantages con't

- ▶ It promotes diversity of assessment and can be a rich focus for discussion among students and faculty.
- ▶ It provides in-depth information for faculty/staff use in revising courses and programs

## Disadvantages of Portfolios

- ▶ Portfolios require a great deal of time.
- ▶ Portfolios demand careful planning and gradual implementation.
- ▶ Contents of portfolios can be an issue in terms of no. of items, length of items, etc.
- ▶ Storage of portfolios is also an issue.
- ▶ Analysis of portfolios as evidence of program success can be time consuming.

## Sources for Portfolio Study

- ▶ Cambridge, Cambridge, & Yancey (2009). *Electronic Portfolios 2.0* Stylus Publishing
- ▶ T. P. Light, Helen Chen, & John Ittleson. (2012) *Documenting learning in E-portfolios: A guide for college instructors*. Jossey-Bass
- ▶ Linda Suskie (2009) *Assessing student learning: A common sense guide*, 2<sup>nd</sup> edition. Jossey-Bass See Chapter 13.

## History and Status of Capstones

- ▶ Offered or required in  $\frac{3}{4}$  of U. S. baccalaureate institutions
- ▶ Discipline-based Capstones are most common format
- ▶ Emergence of Capstones as a senior experience in the late 1980's and early 1990's
- ▶ Calls for assessment that is synthetic, holistic, interdisciplinary and reflective of national goals
- ▶ The Boyer Commission (1998) recommended capstones for higher education curriculum
- ▶ Response to the LEAP initiatives to provide transformational experiences

## Capstones: What and How?

- ▶ Capstones are a summarizing process with both learning and assessment integrated in the project, problem solving, report, etc. (multiple forms); at graduate level in the form of theses
- ▶ Capstones are best coordinated, implemented, and evaluated by collaborative groups (all faculty, teams of faculty, employers, community reps, students, alum, etc.)
- ▶ Actual Capstones are designed by students with input from multiple directions.

## Generic Requirements for a Capstone:

- ▶ Arises from program or institutional mission and/or stated program or institution goals
- ▶ Shaped in a way that both assesses and extends the learning of program or institution
- ▶ Judged or evaluated by a set of outcomes that are aligned with programmatic or institutional goals
- ▶ Designed or conducted to be a high-impact practice for student learning\*\*\*

## Requirements for Capstone Formats

- ▶ For a programmatic or disciplinary Capstone, the prerequisite is a credible, sustained, and coherent program with a solid core to be reflected in the Capstone
- ▶ For an interdisciplinary or institutional Capstone, there must be broad connections between academic majors and the goals/values of the general education program

NOTE: The interdisciplinary Capstone is more challenging for both faculty and students.

## Foundational Components of Capstone Course Design

- ▶ Intentionality
- ▶ Collaboration
- ▶ Curricular Fit
- ▶ Professional Standards

## Structural Decisions that Address Student Experience/Learning

- ▶ Functions within distinct cultural and organizational contexts at all levels
- ▶ Practical issues like identifying stakeholders, analyzing resources, admissions and entry requirements, course length, enrollment size, and course description

Portland State University Example to demonstrate the decisions.

## Capstone Criteria from Washington College

While Capstone formats or approaches may differ, all Capstone courses “will be informed by the following expectations”:

- ▶ Demonstrated student initiative
- ▶ Significant preparatory work
- ▶ Active inquiry
- ▶ Integration of acquired knowledge and skills
- ▶ Culmination of previous academic work (Schermer & Gray, 2012)

## UCLA Criteria for Capstones

- ▶ ● Must be a creative, inquiry-based learning experience that deepens the student's knowledge and integration of the discipline.
- ▶ ● Must be part of an upper-division course of at least 4 units and (preferably) taught by ladder faculty.
- ▶ ● May be completed individually or by a group, provided each student's contribution is significant, identifiable, and graded.
- ▶ ● Must culminate in a tangible product that can be archived (electronically) by the department or program for three years.
- ▶ ● Must be opportunities for students to share capstone projects with peers; this can occur in class or outside of class.

(Lindholm, 2012)

## Assessing Student Learning in Capstones: Reminders

- ▶ Provide opportunities for self-assessment, peer assessment, and assessment by multiple faculty/staff/community representatives/employers with shared standards, rubrics, etc.
- ▶ Develop simple and iterative progress reporting mechanisms for monitoring work, learning, relationships, engagement, potential for success
- ▶ Consider a hierarchical set of activities that incentivize more capable students  
(Hauhart & Grahe, 2015, p. 197)



## Sources for Capstone Study

- ▶ Robert Hauhart & Jon Grahe (2015) *Designing and teaching undergraduate capstone courses*. Jossey-Bass.
- ▶ B. Catchings (2004). Capstones and quality: The culminating experience as assessment. *Assessment Update*, 16 (1), 6–7.
- ▶ G. Roberts & T. Pavlak (2002). Designing the MPA capstone course: A structured–flexibility approach. *Journal of Public Affairs Education*, 8 (3), 179–191.

## Reflections: What and How

- ▶ The reflective process is a major component of learning
- ▶ Reflection provides an opportunity for making meaning (with new information, ideas, experiences, skills, etc.)
- ▶ May take place individually and/or in community with peers
- ▶ May take oral, written, graphic or other forms

## Reflection Foci

- ▶ **Reflection on the information, curriculum content, topics, experiences** – substantive writing or discussion aimed at processing and revealing understanding
- ▶ **Reflection on the learning process itself** – personal – focused on the learner's learning experience with attempts to identify the significance, value, meaning of the experience

## Forms of Reflection

- ▶ Brief or abbreviated form – one minute paper, muddiest point paper (Angelo & Cross' CATS)
- ▶ Intermediate form – extended and ongoing over course or program; passed back and forth with other; primarily journals, learning logs
- ▶ Extended form – a component of a portfolio, blends both foci, integrative, may address the learning experiences of one course, program or the entire college experience.

## Wlodkowski's "Process Folio"

- ▶ Content of learning – what have you learned?
- ▶ Context of learning – How does your learning fit in the larger context of life?
- ▶ Learning process – What have you learned about how you learned?

(Wlodkowski, 1999)

## Principles of Reflection

- ▶ Continuous – an ongoing coherent process
- ▶ Connected – integrates past and current experiences, experiences with course content, concepts across curriculum/disciplines, and works to empower learners with knowledge about their learning

## Principles con't

- ▶ **Challenging** – poses new questions and unfamiliar, even uncomfortable ideas for consideration, while simultaneously providing support
- ▶ **Contextualized** – extends to application of knowledge and understandings, may be oral or written.
- ▶ The DEAL Model (describe, examine, articulate, and learn) from Ash & Clayton

## Resources for Reflection

- ▶ Eyler, J., Giles, D., & Schmiede, A. (1996). *A practitioner's guide to reflection in service learning*. Nashville, TN: Vanderbilt University
- ▶ Fink, D. L. (2003). *Creating significant learning experiences: An integrated approach to designing college courses*. San Francisco, CA: Jossey-Bass.
- ▶ Ash, S.L., & Clayton, P. H. (2009a). Generating, deepening, and documenting learning: The power of critical reflection in applied learning. *Journal of Applied Learning in Higher Education*, 1, 25–48.
- ▶ Ash, S. L., & Clayton, P. H. (2009b). *Learning through critical reflection: A tutorial for service-learning students* (instructor's version). Morrisville, NC: East Coast Digital Printing.
- ▶ Brooks, E., Harris, E., & Clayton, P. H. (2010). Deepening applied learning: An enhanced case study approach. *Journal of Applied Learning in Higher Education*, 55–76.\*
- ▶ Wlodkowski, R. (1999). *Enhancing adult motivation to learn: A comprehensive guide for teaching all adults*. San Francisco, CA: Jossey-Bass.

# Indirect Assessment (Probing for Understanding)

Amy Driscoll

## Using Indirect Assessment

- ▶ Takes inquiry beyond questions of whether student learned or were successful to WHY? HOW? WHEN?
- ▶ Pushes for information about how learning occurred, confidence in learning, students' perceptions of their own learning and success.
- ▶ Extends interactions related to and discussions of learning
- ▶ Communicates to students that their opinions and issues are important
- ▶ Can yield unexpected or unanticipated information.

## Common Examples of Indirect Evidence

- ▶ Assignment and course grades
- ▶ Retention and graduation rates
- ▶ Admission rates to other institutions
- ▶ Alum perceptions
- ▶ Student self-ratings of their learning
- ▶ Employer satisfaction
- ▶ Awards, honors, scholarships
- ▶ Employment rates of grads (including salaries, positions, etc.)

## Commonly Used Forms of Indirect Assessment

- ▶ Surveys
- ▶ Interviews
- ▶ Focus Groups

## Advice for Using Surveys:

- ▶ Determine purpose for survey – goals, issues, inquiry
- ▶ Carefully plan for how data/information will be used\*\*\*
- ▶ Determine the population for the survey by identifying the individuals who will have the information being sought
- ▶ Sample size will be influenced by type of information needed, use of the information, and population of interest

## Con't Advice for Using Surveys

- ▶ Select type of survey format that will best provide the intended information (frequency, rating scales, open-ended questions, checklist)
- ▶ Carefully design survey questions
  - Avoid confusing or vague wording with clear, straightforward questions
  - Avoid wording that might bias response
  - Allow respondents to not answer questions
  - Watch for order effects (Allen, 1995, 2004)
- ▶ Pilot test the survey before use

## Advice for Using Interviews:

- ▶ Determine purpose for interview – goals, issues, inquiry
- ▶ Be clear about how you will use the information/data from the interviews
- ▶ Select kind – structured (SI), semi-structured (SSI) , or unstructured (UI)
- ▶ Develop a brief introductory protocol to explain purpose, structure, etc. and use uniformly for each interview

## Con't Advice for Using Interviews

- ▶ Use care to not indicate your personal views
- ▶ Plan careful questions and do not interpret the questions (SI)
- ▶ For probing, begin with topics and questions, and allow the interviewee to vary content and flow (SSI)
- ▶ Determine no. of interviewees using the criteria of “sufficiency” and “saturation” (Seidman, 2006).
- ▶ Plan for recording that is non-obtrusive



## Advice for Using Focus Groups:

- ▶ Determine purpose for focus groups – goals, issues, inquiry
- ▶ Be clear about how you will use the data/information
- ▶ Select a representative sample of the group whom you want to study or who can be helpful in understanding a topic or responding to questions
- ▶ Plan to conduct more than one focus group

## Con't Advice or Using Focus Groups:

- ▶ Carefully develop a protocol with questions that are both broad and focused
- ▶ Begin the focus group with a general, broad and easy question to start the flow
- ▶ Select a site without interruptions but with comfortable seating arrangements
- ▶ Plan for recording that is non-obtrusive

## Advice for Using Surveys, Interviews, Focus Groups

- ▶ Collaborate with professional faculty colleagues
- ▶ Consult with IR colleagues
- ▶ Pilot test or ask others to review questions before use
- ▶ Attend to schedule issues

## Helpful References

- ▶ Allen, M. (2004). *Assessing academic programs in higher education*. Bolton, MA: Anker Publishing.
- ▶ Schuh, J. H. (2009). *Assessment methods for student affairs*. San Francisco, CA: Jossey-Bass.
- ▶ Seidman, I. (2006). *Interviewing as qualitative research: A guide for researchers in education and the social sciences*. Williston, VT: Teachers College Press.
- ▶ Suskie, L. (2009). *Assessing student learning: A common sense guide, 2<sup>nd</sup> edition*. San Francisco, CA: Jossey-Bass.

# ALIGNING STUDENT EVIDENCE WITH LO'S, INQUIRY, CURRICULUM

- CONTEXTUAL ALIGNMENT
  - CRITERIA TO CONSIDER
    - BLOOM AS A GUIDE

Amy Driscoll

## CONTEXTUAL ALIGNMENT: Designing Student Evidence to Align with Institution, Students, and Faculty

- ▶ Reflect on purpose/description of assessment
- ▶ Develop approaches to make assessment relevant, meaningful, authentic, and useful to students.
- ▶ Use a paradigm for assessment consistently across the institution
- ▶ Reflect on your own learning style, preferences

## Criteria for Student Evidence that Supports Student Success

- ▶ Evidence of student learning respects varied learning strengths, interests, needs (Bodi, 1990)
- ▶ **Evidence of student learning is well matched to level of learning outcome (Driscoll & Wood, 2007)**
- ▶ Evidence of analytical skills, creativity, resourcefulness, empathy, and ability to apply knowledge and transfer skills from one situation to another (AACU, 2003)

## Criteria for Student Evidence con't

- ▶ Replicate the kind of challenges adults face in the workplace, in civic affairs, or in their personal lives (Wiggins & McTighe, 1998)
- ▶ Provide data about our students with measures that are “as fair as possible for as many students as possible” (Suskie, 2000)
- ▶ **Responds to questions that faculty and others care about.**

## PRACTICE ALIGNMENT

- ▶ Select direct and/or indirect assessments that align with student learning outcomes.
- ▶ Select direct and/or indirect assessments that align with inquiry focus (questions that people care about).
- ▶ Ideally triangulate the assessments

## PRACTICE GROUP #1

- ▶ ILO Students use technology to locate, access, and evaluate information from multiple sources.
- ▶ INQUIRY  
What are the most common sources used by students? How confident are students about the 3 processes of the ILO? Can the ILO be achieved by online instruction? Does the learning transfer to other courses?

## PRACTICE GROUP #2

- ▶ CLO Students conduct research, develop and make an oral presentation to multiple audiences using technology support
- ▶ INQUIRY
  - Are there student differences that influence success of students meeting the CLO (age, race, experience, gender, etc.)? When students observe each other's presentations, is their learning extended?
  - Do students find value in achieving the outcome? What value?

## PRACTICE GROUP #3

- ▶ PLO Students develop and use strategies for leadership in project management.
- ▶ INQUIRY
  - Is there agreement in individual student self-assessment and those of their peers? What leadership strategies appear to be the most difficult and the most often used? Do employers rate the strategies useful? Not useful?

## PRACTICE GROUP #4

- ▶ PLO Students identify works of art by their historical period and describe influences of the culture on the subject, form, and practices.
- ▶ INQUIRY
  - To what extent do students use professional language? What periods appear to be better known and understood? Is there a significant difference in the discussions of 2<sup>nd</sup> and 3<sup>rd</sup> year students?

## PRACTICE GROUP #5

- ▶ PLO Students conduct a community scan to determine assets, needs, interests, and cultural traditions, and sensitivities with implications for planning health education programming.
- ▶ PLO Students design and implement a community health education program in collaboration with citizens of the community using community scan information.

## PRACTICE GROUP #5 con't

### ▶ INQUIRY

- Are the most successful of the programs (determined by rubric use) safe, traditional or creative, risk taking approaches?
- When students complete their design and implementation, what aspects of their learning do they wish they could strengthen?
- How do community members rate their experiences? How would they change or improve the processes?

## REFLECTIONS

- ▶ The value of collaboration in designing assessment (diversity of thinking)
- ▶ The power of triangulation in producing evidence
- ▶ The role of inquiry in designing assessment
- ▶ The importance of aligning assessment with the intended outcomes



## Aligning Student Evidence with Learning Outcomes

- ▶ LO's with KNOWLEDGE expectations: define, repeat, list, name, label, memorizes, records, recalls, listens, identifies, matches, recites, selects, draws, cites, recognizes, indicates, enumerates, reproduces
- ▶ Evidence: definitions test, matching test, list key ideas, label diagram, descriptions

## Aligning Student Evidence with Learning Outcomes

- ▶ LO's with COMPREHENSION expectations: restates, describes, explains, tells, discusses, recognizes, reviews, expresses, reports, estimates, paraphrases, documents, generalizes, summarizes, discusses, classifies, traces
- ▶ Evidence: Discuss readings; Report of an observation; summaries; Explain a theory.

## Aligning Student Evidence with Learning Outcomes

- ▶ LO's with APPLICATION expectations: computes, demonstrates, shows, translates, solves, employs, constructs, dramatizes, interprets, applies, uses
- ▶ Evidence: presentations, uses strategies in situations, problem solving, uses formulas or models, uses equipment,

## Aligning Student Evidence with Learning Outcomes

- ▶ LO's with ANALYSIS expectations: dissects, differentiates, calculates, contrasts, debates, solves, surveys, categorizes, prioritizes, inventories
- ▶ Evidence: analysis of theories, research or philosophy; debate; assembling equipment; describing connections; compare and contrast; case studies; problem solving

## Aligning Student Evidence with Learning Outcomes

- ▶ LO's with EVALUATION expectations: concludes, criticizes, justifies, supports, appraises, discriminates, decides, assesses, rates
- ▶ Evidence: Rate items and rationales; develop an argumentation; self critique and peer critique, evaluate research, compare models; use a rubric to critique work.

## Aligning Student Evidence with Learning Outcomes

- ▶ LO's with SYNTHESIS expectations: creates, composes, formulates, constructs, manages, invents, produces, hypothesizes, speculates, facilitates, negotiates, structures
- ▶ Evidence: design plans, organizes meeting, create new model, rewrites history, produces film, invents tool, negotiates agreements; design a rubric.

# **Reliability and Validity when Using Rubrics**

**Mary Allen**

# Reliability and Validity when Using Rubrics

When we use rubrics to score evidence we have two basic concerns:

1. Are the scores valid? Do the scores reflect what we want to measure?
2. Are the scores reliable? Do raters agree on which score(s) should be given each artifact (inter-rater reliability)?

**Valid results are meaningful. Reliable results are consistent.**

## Broken Clock Example

Imagine your clock is stuck at 10:00. Is this a reliable measure of what time it is? Is it valid?

## How to Generate Higher Reliability and Validity when Doing Assessment

- Validity is threatened if faculty collect poor evidence, have an unrepresentative sample, use a poor rubric, or don't use their rubric well. This means that we have to be careful about each stage in the assessment process because we want good evidence, a good sample, a good rubric, and reviewers who carefully apply the rubric when they assess the evidence.
- Inter-rater reliability is threatened if reviewers do not apply the rubric in a consistent way. The purpose of calibration is to increase the reliability of the judgments, so we have confidence in them. If calibration works well, each piece of evidence would receive virtually identical ratings if scored by any of the calibrated raters.

## Your Task

You and your colleagues are teaching a course on rubrics, and you agree to collaborate when providing feedback to students. You agree on the feedback rubric, and you plan to aggregate results to assess the impact of your instruction.

Before you begin scoring these rubrics, you are going to be calibrated.

## And now, the Calibration:

**Outcome: Students who complete our program can effectively lead collaborative groups to accomplish a task.**

**The Evidence.** The students' homework requires that they develop a two-dimensional analytic rubric that assesses the outcome dealing with Leadership. The students' rubric should fit evidence collected in this way: The rubric will be applied by faculty who observe a student-led group with six members that must complete a task in 20 minutes. The group will be given a task of sufficient complexity that multiple solutions are possible, although some solutions are better than others; and faculty believe that the group should be able to reach a conclusion within 20 minutes.

**The Feedback Rubric.**

Here is the rubric that you will apply to the students’ rubrics to provide them feedback and to learn about the impact of your instruction:

**Rubric for Assessing the Quality of Assessment Rubrics**

<b>Dimension</b>	<b>1 Unacceptable</b>	<b>2 Marginal</b>	<b>3 Acceptable</b>	<b>4 Exemplary</b>
<b>Validity of Rubric Dimensions</b>	Both rubric dimensions are unreasonable for the outcome being assessed; they do not relate to the outcome being assessed	Rubric includes one or more dimensions that are trivial (that would be near the “bottom of the list” of possible dimensions)	Both rubric dimensions are non-trivial and they reasonably focus on the outcome being assessed, but at least one of the dimensions would not be near the “top of the list” of possible dimensions	Both rubric dimensions clearly focus on major aspects of the outcome being assessed. The dimensions are at or near the “top of the list” of possible dimensions
<b>Clarity for Decision-Making</b>	One or both sets of the rubric’s decision-making criteria are seriously flawed; they lead to ratings that do not make sense or they provide insufficient information to make judgments across the scale	One or both sets of the rubric’s decision-making criteria are ambiguous about how to decide between adjacent levels (e.g., the difference between Level 2 and Level 3 is unclear)	The rubric’s decision-making criteria help us make reasonable distinctions between rating levels, but a little more detail would be helpful to give us more confidence in our judgments	The rubric’s decision-making criteria allow us to distinguish among rating levels with confidence

**Working only by yourself, rate the Validity and Clarity of the three rubrics on the next page.**

**As you assess the three rubrics, remember the outcome and the assessment process and give each example two ratings based on the above rubric: one for Validity and one for Clarity for Decision-Making. Your ratings should be 1, 2, 3, or 4 (1 for Unacceptable, 2 for Marginal, 3 for Acceptable, and 4 for Exemplary)—whole numbers, no fractions or decimal points.**

**Leadership Rubric 1**

Rating for Example 1: Validity \_\_\_\_ Clarity \_\_\_\_

<b>Dimension</b>	<b>1 Unacceptable</b>	<b>2 Marginal</b>	<b>3 Acceptable</b>	<b>4 Exemplary</b>
Focus on Task	Assigned task is not addressed	The group regularly strays from the assigned task	The group occasionally strays from the assigned task, but mostly stays focused on it	The group always stays focused on the assigned task
Leader Can be Heard	Leader routinely speaks too softly to be heard	Leader sometimes speaks too softly to be heard	Leader occasionally speaks too softly to be heard	Leader speaks in a voice loud enough to be easily heard by group members

**Leadership Rubric 2**

Rating for Example 2: Validity \_\_\_\_ Clarity \_\_\_\_

<b>Dimension</b>	<b>1 Unacceptable</b>	<b>2 Marginal</b>	<b>3 Acceptable</b>	<b>4 Exemplary</b>
Accomplishes Task	Group fails to reach a conclusion about how to accomplish the task	Group offers a conclusion, but their conclusion fails to adequately accomplish the task	Group reaches a reasonable conclusion that accomplishes the task	Group reaches a conclusion that accomplishes the task in a sophisticated or creative way
Engages Group Members	Leader is insulting to one or more group members	Leader does not insult anyone, but ignores one or more group members	Leader encourages all group members and acknowledges what they say	Leader encourages and shows respect for all group members, listens actively, and encourages collaboration

**Leadership Rubric 3**

Rating for Example 3: Validity \_\_\_\_ Clarity \_\_\_\_

<b>Dimension</b>	<b>1 Unacceptable</b>	<b>2 Marginal</b>	<b>3 Acceptable</b>	<b>4 Exemplary</b>
Commands Respect	Leader is ignored by group members	Leader allows group members to criticize how the group is being led	Leader requires group members to raise their hands before speaking	Leader decisively reaches a conclusion and does not allow group members to disagree with him/her
Speed	Decision is made in 10 or more minutes	Decision is made in 5-10 minutes	Decision is made in 3-5 minutes	Decision is made in 0-3 minutes

## Ratings Summary

Example	Validity Ratings				Clarity Ratings			
	1	2	3	4	1	2	3	4
Example 1								
Example 2								
Example 3								

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Our goal now is to calibrate by reaching consensus on what the scores should be.

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After the calibration is completed, we would assess the students' rubrics. Here are two ways to organize this assessment:

1. Two independent readers/product
  2. Paired readers
- 

### Calibration Basic Steps

1. Provide an orientation to the learning outcome, rubric, evidence, and assessment task.
  2. Each participant scores exemplars that vary in quality. If all are of the same quality, the group will not discuss how to discriminate other levels of quality.
  3. Reach consensus on what the exemplars' scores should be.
-



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## Group Orientation and Calibration Script for Assessing PLOs

1. Describe the purpose for the review, stressing how it fits into program assessment plans. Explain that the purpose is to assess the program, not individual students or faculty, and describe ethical guidelines, including respect for confidentiality.
2. Describe the nature of the products that will be reviewed, briefly summarizing how they were obtained.
3. Describe the scoring rubric and its categories. Explain how it was developed.
4. Explain that readers should rate each dimension of an analytic rubric separately (to avoid the "halo effect"), they should apply the criteria without concern for how often each category is used (to avoid "grading on a curve" and norm-referenced interpretation), and they should assign whole number ratings.
5. Give each reviewer a copy of several student products that are exemplars of different levels of performance. Ask each reviewer to independently apply the rubric to each of these products, and show them how to record their ratings.
6. Once everyone is done, collect everyone's ratings and display them so everyone can see the degree of agreement.
7. Guide the group in a discussion of their ratings. There will be differences, and this discussion is important to establish standards. Attempt to reach consensus on the most appropriate rating for each of the products being examined by inviting people who gave different ratings to explain their judgments. Usually consensus is possible, but sometimes a split decision is developed, e.g., the group may agree that a product is a "3-4" split because it has elements of both categories.
8. Distribute the products and begin the data collection using either independent or paired readers.
9. If you accumulate data as they come in and can easily present a summary to the group at the end of the reading, you might end the meeting with a discussion of five questions:
  - a. Are results sufficiently reliable?
  - b. What do the results mean? Are we satisfied with the extent of student learning?
  - c. Who needs to know the results?
  - d. If we're disappointed with the results, how might we close the loop?
  - e. How might the assessment process, itself, be improved?

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Pick a partner and **role play a calibration session to assess writing skills in a sample of capstone projects**. Use your own words, rather than read the script. Alternate on who plays the calibrator. When you're not the calibrator, give feedback on how well each step is conducted. Before you begin, decide if you are going to use independent or paired scorers.

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## Inter-Rater Reliability

- Correlation Between Paired Readers
  - Discrepancy Index
  - Cohen's Kappa (an indicator of the agreement between two sets of category ratings)
- 

### Example of Reliability Coefficients

Say you use an analytic rubric with 3 dimensions (organization, accuracy, and writing style) to assess writing quality in eight artifacts\*. Here are the scores for the two raters who scored each artifact:

Artifact	Organization		Accuracy		Writing Style	
	Rater 1	Rater 2	Rater 1	Rater 2	Rater 1	Rater 2
1	1	2	1	1	3	3
2	2	2	2	2	2	2
3	3	3	3	3	1	1
4	4	3	4	3	4	4
5	1	3	3	4	4	3
6	4	3	2	2	2	2
7	3	3	3	3	3	3
8	4	2	3	3	2	2
<b>Correlation</b>	correlation=.27		correlation=.83		correlation=.95	
<b>Discrepancy of 0</b>	38%		75%		88%	
<b>Discrepancy of 1</b>	38%		25%		12%	
<b>Discrepancy of 2</b>	25%		0%		0%	
<b>Discrepancy of 3</b>	0%		0%		0%	
<b>Kappa</b>	.22		.62		.83	

\*I use 8 artifacts here just to keep the data simple, so you can later analyze the raw data on your own to verify that your calculations are correct. I would not calculate these statistics for fewer than 30 artifacts, and, in general, I recommend that 50-80 artifacts be assessed so you can have more confidence in your conclusions.

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**How reliable were these ratings?**

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### One Way to Calculate the First Two Reliability Statistics: Use Excel.

In an Excel spreadsheet rows are numbered and columns are lettered. Below are the data for the eight artifacts summarized on the previous page. Each cell is identified by its column letter and row number. For example, the score in Cell A1 is a 1 and the score in Cell E7 is a 3.

Artifact Number	A	B	C	D	E	F	G	H	I
	Org. Rater 1	Org. Rater 2	Org. Diff.	Accur. Rater 1	Accur. Rater 2	Accur. Diff.	Style Rater 1	Style Rater 2	Style Diff.
1	1	2	1	1	1	0	3	3	0
2	2	2	0	2	2	0	2	2	0
3	3	3	0	3	3	0	1	1	0
4	4	3	1	4	3	1	4	4	0
5	1	3	2	3	4	1	4	3	1
6	4	3	1	2	2	0	2	2	0
7	3	3	0	3	3	0	3	3	0
8	4	2	2	3	3	0	2	2	0

To correlate columns A and B select Statistical Functions (or Insert Function) from the Formula Menu (depending on the version of Excel you're using), select CORREL and in the boxes type A1:A8 and B1:B8 to identify the cells ("Arrays") in the two columns that will be correlated using the standard Pearson product-moment correlation coefficient. Excel will give you the correlation. Round it to two decimal places.

The "Diff" columns contain the absolute value of the size of the difference (i.e., the difference, ignoring sign). Entries in these columns are used to calculate the discrepancies.

---

To calculate kappa use a more advanced statistical package (e.g., SPSS) or use a formula to guide your calculations. For example, <[psych.unl.edu/psychers/handcomp/hckappa.PDF](http://psych.unl.edu/psychers/handcomp/hckappa.PDF)> presents a simple step-by-step calculation with an example. Try it on the data presented here first to be sure you can do it accurately before calculating Kappa statistics for a real project. Here are some steps for the three calculations for our data:

Organization: sum of agreements= 3, sum of expected freq.= 1.625, Kappa=1.375/6.375=.22

Accuracy: sum of agreements= 6, sum of expected freq.= 2.75, Kappa=3.25/5.25=.62

Style: sum of agreements= 7, sum of expected freq.= 2.25, Kappa=4.75/5.75=.83

Various benchmarks for interpreting kappas exist, such as kappas from .21-.40 indicate "fair agreement," .41-.60 indicate "moderate" agreement, .61-.80 indicate "substantial" agreement, and .81-1 are "almost perfect" agreement (Landis and Koch, 1977) or kappas over .75 are "excellent," .40-.75 are "fair to good," and below .40 are "poor" (Fleiss, 1981). Others (e.g., see

<[psych.unl.edu/psycrs/handcomp/hckappa.PDF](http://psych.unl.edu/psycrs/handcomp/hckappa.PDF)>) suggest that only kappas over .70 are “satisfactory.”

Unlike the Pearson correlation coefficient, kappa is based on the fraction of agreements, so a discrepancy of 1 is treated the same as a discrepancy of 3, making it a conservative estimate of inter-rater reliability. A weighted kappa statistic weights discrepancies differently so could be used to compensate for this.

The Pearson product-moment correlation coefficient is what most people refer to when they say “correlation.” Its calculation is based on the assumption that data are at the interval or ratio level of measurement. Ratings using rubrics are at the ordinal level of measurement, so this assumption would be inappropriate, leading some researchers to argue that the standard correlation coefficient should not be used (e.g., see McHugh (2012), <<http://www.biochemia-medica.com/2012/22/276>>.)

For more advanced discussions of alternative reliability estimates, see Gwet’s website <<http://www.agreestat.com/agreestat.html>>. It contains links to research articles and Gwet’s software (AgreeStat). AgreeStat uses Excel to calculate a variety of reliability estimates, such as Gwet’s *AC1* and *AC2* coefficients, Fleiss Kappa, and versions of Krippendorff’s alpha.

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# Developing Quality Evidence

**Amy Driscoll**

# Quality Evidence: Principles, Characteristics, and Recommendation

Amy Driscoll

## Principles of Quality Evidence:

- ▶ Evidence is directly related to the knowledge, skills, and values of the program, reflects the program's curriculum, and what has been taught throughout the program. (Check Alignment Grids, Missions)
- ▶ Evidence involves multiple judgments (more than one faculty, more than one kind of evidence) of student achievement of the LO's, of student performance, and of student work, and attends to the experiences that led to learning.

## Principles of Quality Evidence con't

- ▶ Evidence provides information on multiple dimensions of student performance (Exs. accuracy, creativity, comprehensiveness, etc)
- ▶ Evidence reflects cumulative or iterative learning and makes use of multiple and scaffolded sources, methods, and approaches

## Principles of Quality Evidence con't

- ▶ Evidence is actionable, provides information to guide revisions or to affirm effectiveness and student success.

## Example of Principles of Quality Evidence

### Assessment of Social Work Students and Program

1. Capstone aligned with PLO's (includes disciplinary content,  
communication, ethics, and information literacy)
2. Faculty/Employer Reviews of Capstones
- 3.. Internship Evaluators and Employer Focus Groups
4. Alumnae Survey Feedback Surveys focused on PLO's
5. Survey of Graduates in Social Work Masters' Program

## Characteristics of Exemplary Assessment Tasks (Leading to Quality Evidence)

- ▶ Authentic
- ▶ Rigorous / Challenging
- ▶ Engaging



## Characteristics con't

- ▶ Respectful
- ▶ Intentional and purposeful
- ▶ Collaboratively developed and reviewed

## Designing and Using Quality Evidence: Recommendations

- ▶ Use a process of inquiry for evidence selection
- ▶ Focus on questions and issues that are most important (students, faculty, institution)
- ▶ Use evidence to generate dialogue, reflection and new questions
- ▶ Think in terms of using data for long-term improvement

## Practice with Colleagues






- ▶ Brainstorm questions related to courses, programs, and institutional learning
- ▶ Assess the importance of each question
- ▶ Design and align an assessment task to respond to one or more questions

# Engaging Faculty in Assessment

**Mary Allen**  
**Amy Driscoll**

# GUIDES FOR ENGAGING FACULTY IN ASSESSMENT

## **“Pulling them in”**

-  Listen, Listen, Listen
  - To the resistance
  - To “full plate” complaints
  - To “we’re already doing it”
  - To annoyance with regulations
-  Respond empathically, agree and acknowledge, respect past history
-  Focus future work on how it supports students, their learning success
-  Establish a vision and plan that is relevant to the lives of students and faculty
-  Educate everyone at the start

## “Keep them coming back”

- ✪ Sequence work in small steps – each with a purpose and immediate success
- ✪ Always get work done in workshops – accomplish tasks
- ✪ Acknowledge and build on what faculty are already doing in their own courses
- ✪ Share good news and celebrate accomplishments!
- ✪ Spotlight potential for scholarship

**Assessment 201**  
**November 18, 2016**  
**Engaging Faculty in Assessment Homework**  
**Mary Allen**

**On the attached 3 pages are 28 ways I have seen campuses engage faculty in assessment. This assignment has three steps. Please complete all three steps and bring this document with you to the Assessment 201 workshop.**

**Step 1.**

As you read each idea, think about your own campus. In the margin make one of these marks:

- + My campus already does this, and we do it well.
- ✓ This is a good idea. My campus should consider doing it or doing it better.
- 0 This idea is not relevant to my campus.

**Step 2.**

Identify 2 or 3 of these ideas that you would like to discuss at the Assessment 201 workshop. Perhaps you have specific questions about them, perhaps you want to learn about other campus' experiences using them, or perhaps you would like to brainstorm with colleagues from other campuses on how to make them happen.

**Ideas I'd like to discuss at the Assessment 201 workshop:**

- 1.
- 2.
- 3.

**Step 3.**

Bring this assignment with you to the Assessment 201 workshop so you can look at it during our discussion.

## Engaging Faculty in Assessment

### Approach to Assessment

1. Focus on the students. The purpose of assessment is to improve students' learning, not to get accreditors or administrators off your back. It is a best practice in higher education. Virtually all faculty are sincerely interested in their students' learning. If you focus on compliance, faculty will learn that assessment is done for external reasons rather than to help their students learn more.
2. Faculty in control. Faculty are in charge of every step in the assessment process—they determine the outcomes, align their curricula with the outcomes, decide on the evidence, set the criteria and standards, and decide how they will close the loop. Allow faculty in different disciplines flexibility to use assessment strategies and tools that make sense to them, and provide flexible, consultative support to aid their decision-making. A one-size-fits-all, rigid approach is likely to alienate faculty.
3. It's not personnel review. Assessment results are for programs, and individual faculty names should not be associated with assessment findings. If assessment and personnel review are combined, faculty will not want to participate, they may feel personally threatened, and they will be tempted to submit only positive results.
4. Include adjunct faculty. Some programs rely heavily on adjunct faculty to staff their courses. Adjunct faculty who regularly teach in the program should be part of the assessment team. Campuses may have to build assessment into adjunct faculty contracts or pay them additional stipends for this work.
5. Grading and assessment. Consider integrating assessment rubrics and assessment into courses to provide feedback to students as well as program faculty. This eliminates the need to review student work twice (once for grading and once for assessment) and should result in better alignment between the curriculum and learning outcomes.
6. Integrate assessment into Program Review. Educational effectiveness and the improvement of learning should receive considerable attention in program review. Program review should include consideration of the need to revise the outcomes, curriculum map, and assessment plan; examination of what was learned in assessments conducted over the program review cycle and the impact of closing the loop; and requests for evidence-based budgetary support for improving learning.

### Infrastructure and Support

7. Faculty expertise. Faculty are accustomed to doing things with expertise. Provide on-going training and support to help faculty develop assessment expertise. Help faculty identify efficient, cost-effective ways to do assessment without sacrificing the quality of their findings. Consider providing support in multiple ways, such as an assessment center, a handbook, a website with useful examples and links, workshops, and consultation. Consider creating faculty learning communities to explore assessment topics. Consider offering a Certificate in Assessment to faculty who actively participate in learning about it, such as faculty who complete a series of assessment-related workshops.
8. Formal campus support for assessment. Have a formal assessment center, provide funds for its operations, and encourage faculty to use it as a confidential, non-threatening support center focused on helping them do efficient, quality assessment. Many campuses create assessment centers shortly before an accreditation visit, then dismantle them after accreditation is achieved. This sends the wrong message about the importance of assessment

and is likely to result in episodic assessment that matches the accreditation cycle. Sustaining assessment requires on-going training and support.

9. Assessment services. Not all faculty are comfortable doing human-subjects research or handling data. Consider providing technical services for data input and analysis, focus groups, surveys, closing-the-loop decision-making, etc. An active faculty development/assessment center can be especially useful for this.
10. Assessment Grants. Consider funding pilot assessment studies, perhaps with an expectation that learning will be shared with other departments. Grants might include summer stipends for faculty, salary for student assistants, travel to training events, external consultants, or needed materials.
11. Celebrate and share assessment studies. Host an annual Assessment Faire in which departments share assessment procedures, rubrics, and results. Encourage faculty to adapt and share others' ideas. Administrators should attend and demonstrate that they value this work.
12. Time. Consider providing release time or summer support to key faculty, support for department retreats, or reducing other demands on faculty time. Sometimes campuses offer some release time to designated "assessment coordinators" in each department, and these coordinators meet periodically to share ideas or receive special training.
13. Feedback on annual assessment reports. Relevant administrators and/or committees review the reports and provide useful feedback. If reports are ignored or just put in a file drawer or on a website, faculty will learn that they are not important and that they are done out of compliance, rather than because they're a good idea. Why should they put time into a product that no one reads? Friendly, constructive feedback and support can help programs develop more meaningful and efficient assessment processes, helping faculty get more value from doing assessment.
14. Responsibilities. Include assessment in job descriptions for faculty, staff, and administrators. This includes provosts, deans, and department chairs or designated department assessment coordinators, as well as adjunct faculty. Administrator buy-in and support is essential.

#### **Culture**

15. Outcomes-based education. Expect outcomes in syllabi for all courses, including proposed, new courses; and integrate assessment planning into the process of creating and approving new programs. Courses and programs should be systematically organized around outcomes. Campus stakeholders should be accustomed to thinking about and talking about learning outcomes.
16. Conversations about teaching and learning. Assessment is more natural when faculty are accustomed to talking about teaching and learning and trying out new ideas in their courses. A campus that nurtures these conversations and activities sets the stage for meaningful assessment. This generally requires an active faculty development program.
17. Listen to faculty. What are their concerns about assessment? Acknowledge that assessment takes time, especially at the beginning, but this is time well spent because having good outcomes, a quality curriculum map, and a quality multi-year assessment plan allows them to develop meaningful, manageable assessment systems that can be sustained.

#### **Incentives**

18. Campus recognition and reward systems. Give credit for leadership and engagement in assessment. Explicitly include assessment in personnel review guidelines and recognize people who have done exceptional assessment work. Many campuses have "Teacher of the



Year" or "Researcher of the Year" awards. How about an "Assessment Leader of the Year" award? How about an annual luncheon honoring those who have done extraordinary work? How about administrators publicly praising individuals who have done outstanding work at public forums, such as School or College meetings? Vocal, public praise goes a long way.

19. Budgeting. Integrate assessment and program review into the budgeting and planning process. Administrators should set aside funds to support needs documented in assessment studies and program reviews. Department requests for funding should be tied to needs demonstrated by empirical evidence. This shows that assessment is an essential part of campus decision-making (the "culture of evidence").
20. Assessment as scholarship. Encourage faculty to engage in the scholarship of teaching, learning, and assessment (SOTLA). Journals in almost every field are eager to publish well-documented studies. This may require adding explicit recognition of SOTLA to faculty review criteria.
21. Continuing education credit. If relevant and reasonable, provide continuing education credit to faculty for participating in assessment workshops or activities. This would be particularly helpful for adjunct and regular faculty with licenses that require continuing education credits.
22. Integrate assessment into flex days. If your campus requires faculty to participate in flex day activities (paid workdays when no classes are in session), use these days for assessment workshops and other assessment-related activities and encourage faculty to use this time to plan, implement, or discuss assessment studies.
23. Payment for extra service. While faculty may be expected to assess their own discipline's programs, consider paying them for assessing college-wide programs, such as GE. An easy way to pay them is to give them a campus debit card (if your campus uses them for the bookstore, cafeteria, etc.), an Amazon.com card (if you can order them through your campus procurement procedures), or funds they can use to support professional travel or supplies. Actual stipends are a lot of paperwork on most campuses, and, after tax withholding, are smaller than we expect.

#### **Administrators**

24. Communicate the importance of assessment in public forums and communications with campus stakeholders. Explicitly integrate assessment into your vision of educational effectiveness. Support and celebrate improvements in student learning.
25. Speak the language. Leading assessment requires that administrators and assessment leaders understand what assessment is. What are outcomes? How are they useful? What are curriculum maps? How are they useful? What does a quality assessment plan, rubric, assessment study, or assessment report look like? Faculty get turned off to assessment if they get ambiguous information or conflicting advice from campus leaders or if they see their administrators requiring something that they don't understand, themselves.
26. Trust. Faculty must be able to trust that a weak assessment finding will not jeopardize their program. If they fear that their program might be under threat if they find a problem, they will be tempted to only examine easy-to-achieve outcomes or to use overly simple evidence collection procedures. Reward departments for solving problems, rather than punish them for identifying them. Faculty need to hear this from administrators.
27. Provide funds to support the institutionalization of an on-going assessment infrastructure.
28. Explicitly recognize assessment contributions when you make personnel decisions.

# Closing the Loop

**Amy Driscoll**

**“CLOSING THE LOOP”**  
**(Taking Action Using Assessment Information)**

**STEP ONE: PREPARING FOR THE ASSESSMENT CYCLE**

Design exemplary assessment tasks that provide important information  
 Design assessment that provides quality evidence  
 Whenever possible, include direct and indirect evidence and triangulate the data

**STEP TWO: PROBE THE DATA - ENGAGE IN COLLABORATIVE INQUIRY**

Continue information gathering (rubrics? assessment design? Etc.)  
 Discuss possible reasons for the data  
     What factors are responsible for the findings?  
     What explanations are there for the findings?  
 Ideally review both direct and indirect data  
 Check in with involved students, faculty, etc.  
 Consider whether more data is needed before making decisions

**PRACTICE SCENARIO A.**

Assessment Data: Students' Critical Thinking Skills in Business Management

Senior capstone projects	High ratings in critical thinking
Senior self-ratings of critical thinking	Med ratings in critical thinking
Employers' ratings of critical thinking	Low ratings in critical thinking
Alumnae ratings of critical thinking	Low ratings in critical thinking

\*All four ratings used the same scale of critical thinking skills.

**SAMPLE QUESTIONS TO PROBE DATA:**

What critical thinking skills were rated?

Were the actual critical thinking skills demonstrated in capstones related to the critical thinking desired by employers?

Were the critical thinking LO's the same for all groups?

What kind of situations required critical thinking in employment settings?

What kind of situations were alumnae experiencing for their use of critical thinking skills?

Other questions???

### **STEP THREE: CONSIDER AND CREATE POSSIBLE ACTIONS**

Consider multiple perspectives (students', faculty, employer, alums), multiple levels of possible action (course, program, institutional), and multiple foci (pedagogy, curriculum, assessment)

Involve employers in pedagogy and curriculum review/planning of program courses and Capstones planning and evaluation.

Be sure that students are able to identify critical thinking skills (meta-analysis)

Align curriculum and pedagogy with real life situations from employers.

Involve students in iterative progress checks on their development of critical thinking skills.

Engage faculty in collaborative definition and articulation of critical thinking skills and LO's.

### **STEP FOUR: PLAN FOR NEXT CYCLE OF CLOSING THE LOOP**

Schedule actions such as curriculum changes, programmatic sequence, etc.

Implement changes or additions and associated assessment

Schedule data collection after a semester/quarter or year

Analyze the area of curriculum in student evidence for effectiveness of change

### **PRACTICE SCENARIO B.**

Assessment Data: Students' Ethical Reasoning Across Majors

The ILO Assessment Committee worked during the summer to design a signature assignment that could be used across campus to assess ethical reasoning. The assignment consisted of three mini-cases of different ethical dilemmas, and for each program, the context varied and reflected the discipline. During the academic year, the assignment was used in all of the courses that focused on ethical reasoning. When the assignment data was analyzed, the average score across programs was 3.8-4.2 out of 5 for the first two cases but the average score for the third case was 2.4 out of 5.

What are three questions you would ask?

What are the first two steps you would take?

### **CATEGORIES OF "CLOSING THE LOOP ACTIONS"**

Celebrate and/or affirm that a practice, course, program is effective in producing student learning, and that students are successful

Determine that there is a gap or weakness in the program that can be improved

Make decisions about effectiveness of the program, curriculum, pedagogy

Make changes in pedagogy, curriculum, assessment, and programs overall

Determine whether the assessment is aligned, appropriate or relevant and if needed, revise

Consider quality of data, analysis, etc.

EXAMPLES: Phillips Graduate University, Ethics LO's  
University of San Francisco, Psychology and Speech Departments  
Zayad University

### “CLOSING THE LOOP” PRACTICE EXAMPLES

Practice with Step Two through Four– be creative, scholarly, and collaborative!

#### EXAMPLE #1

Available Data:

Student Technology Projects (Signature Assigns)	Ratings – low to average
Student Self Ratings of Technology Expertise	Ratings - low to average
Employers' Evaluations of Technology Expertise	Ratings - low to average
Alumnae Self Ratings of Technology Expertise	Ratings - average to high

\*same rating scale is used for all ratings

#### EXAMPLE #2

Available Data :

Student Final Exams in Social Work	Ratings -	excellent scores
Student Final Projects in Social Work		average ratings
Internship Evaluations		good scores
Employer Ratings		high satisfaction
Graduate School Ratings		average scores

#### EXAMPLE #3

Available Data:

1sr Year Student Ratings of College Experience	Ratings – high satisfactory
1 <sup>st</sup> year Student Interviews of College Experience	satisfactory
Retention rate of returning students after 1 <sup>st</sup> year	below satisfactory

#### EXAMPLE #4

Available Data:

Program Review Data for Psychology (student feedback)	Ratings – exemplary
Student retention rate	satisfactory
Graduation rate	satisfactory to low
Employer satisfaction	exemplary

EXAMPLE #5

Available Data:

Institutional retention rate	Ratings -	Satisfactory
Graduation rate		Satisfactory
Satisfaction of graduates		Satisfactory
Senior Projects/Capstones		Satisfactory

EXAMPLE #6

Available Data:

Nursing Seniors Clinical Evaluations	Ratings-	Satisfactory
Nursing Seniors Coursework Exams		Excellent
Nursing Seniors Self-Assessment		Good
Nursing Seniors Graduation Interviews		Satisfactory

\*Some common items in all rating scales

EXAMPLE #7

Available Data:

First Year Orientation Satisfaction	Ratings-	Very Good
Mentoring Support		Satisfactory
Academic Support Services Usefulness (tutoring, writing center, math and tech lab help)		Satisfactory
Student Self Evaluation of Success		Low
Retention of first year students		Low

# **Integrating Best Practices into the Design and Reporting of Assessments**

**Mary Allen**

## Integrating Best Practices into the Design and Reporting of Assessments

### Uses of the Annual Assessment Report

1. Provide on-going documentation of assessment efforts. These records will be useful to department faculty, department chairs, and assessment coordinators to ensure continuity and to understand why changes have been made. When outcomes are revisited, the same procedures can be used if they worked well in the past.
2. Provide feedback to the program on the quality of their assessment work. An individual or team can review the reports, recognize assessments that are done well, and provide follow-up assistance to departments that are having difficulties.
3. Tie assessment to budgeting. If deadlines are established to inform budgeting decisions, assessment-based budgetary requests can be integrated into decision-making.
4. Provide data that can be aggregated across departments to assess ILOs or to identify issues that go beyond individual departments. Reviewers who examine multiple reports can identify issues that could be addressed more broadly, such as campus need for a writing center, ESL student support, or a faculty workshop on teaching critical thinking skills.
5. Use in accreditation. Self-study writers can integrate information from the reports to document assessment activities. Accreditation visiting teams can analyze the reports to verify that programs have effective, sustainable assessment systems in place.

### Review of Annual Report Examples

You are going to review three sample reports, and your task is to give balanced, useful feedback. Assume that each of these programs graduates 150-200 students/year. To keep this exercise simple, each report focuses on only one learning outcome.

For each report, what would you **praise** and what **constructive criticism** would you provide for each of the following dimensions?

1. **Overall Report Quality:** Is the report clearly written and reasonably complete?  
Based on the report, can you understand and evaluate what was done? Are important details missing?
2. **Quality of the Evidence:** Did they collect reasonable evidence in reasonable ways?  
Was the sample representative and reasonably sized?
3. **Assessment of the Evidence:** Did they do it well? Were readers calibrated? Were assessments reliable?
4. **Use of the Results:** Did they use a reasonable decision process and reach reasonable conclusions about student mastery of the outcome and how to close the loop, if needed?



**Program 1**

We examined Outcome 3, Writing in the Discipline, using 10 papers written in our Capstone course. Several instructors who teach this course volunteered to apply the AAC&U VALUE Writing rubric to some of their students while grading, and they submitted students' scores to the Assessment Coordinator who combined their results. (The rubric has five dimensions that were rated from 1 to 4, so the lowest possible total score was 5, and the highest possible score was 20.) We also collected these students' self-ratings of their writing skills. After summarizing the results, the Assessment Coordinator was satisfied that our students write well. Students agreed.

Table 1 is a summary of our findings based on the Writing Rubric.

<b>Table 1</b>	
<b>Score</b>	<b>Percentage</b>
18-20	10
15-17	50
10-14	30
5-9	10

Table 2 is a summary of the students' self-ratings.

<b>Table 2</b>	
<b>Self-Rating</b>	<b>Percentage</b>
1. I have serious problems communicating in writing.	0
2. I need to improve my writing to communicate well.	0
3. I write fairly well.	20
4. I am an excellent writer.	80

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**YOUR REVIEW: What praise and constructive criticism would you offer?**

**1. Overall Report:**

**2. Evidence:**

**3. Assessment of the Evidence:**

**4. Use of the Evidence:**

**Program 2**

This year we assessed this outcome: **Students who complete our program can explain concepts and theories in our discipline.** Students in four required upper-division courses completed an embedded final exam question. While each course required students to examine different terms, all the embedded questions followed this format:

Define four of the following five terms: \_\_\_\_\_.

Responses from 100 students were randomly selected, and a team of six faculty assessed the evidence using this rubric:

<b>Unacceptable</b>	<b>Needs Improvement</b>	<b>Acceptable</b>	<b>Exemplary</b>
All four of the definitions were inaccurate or incomplete.	Three of the definitions were inaccurate or incomplete.	Two of the definitions were inaccurate or incomplete.	All of the definitions were accurate and complete.

Here is a summary of our findings:

<b>Score</b>	<b>Percentage</b>
Exemplary	21%
Acceptable	46%
Needs Improvement	19%
Unacceptable	14%

We discussed results at the November 19 department meeting, and faculty concluded that too many of our students cannot adequately define terms in our discipline. We agreed that faculty who teach all our courses will devote more class time to help students practice defining terms. This spring all faculty reported doing so in their courses, so we successfully closed the loop.

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**YOUR REVIEW: What praise and constructive criticism would you offer?**

**1. Overall Report:**

**2. Evidence:**

**3. Assessment of the Evidence:**

**4. Use of the Evidence:**

### Program 3

This year we assessed Outcome 2, **Students can think critically about issues in our discipline.** We collected evidence in our Capstone course last spring by requiring students to write a paper in which they explore an important issue in our discipline. Students chose their own topics, but instructor approval was required. Students were given the AAC&U VALUE critical thinking rubric in advance and were told that part of their grade would be based on the quality of their critical thinking, as defined by the rubric. We collected essays ( $n=157$ ) in all sections of the capstone course, and we randomly selected 50 of them for assessment.

Twelve faculty volunteers assessed the essays using the rubric, with two faculty independently assessing each artifact. We first calibrated them, and the inter-rater reliability for each scale was at least .80 (range was .80 to .91). At the end of the scoring session the involved faculty agreed that the rubric appeared to reasonably assess critical thinking.

Results were summarized (see figure below) and the twelve faculty who scored the artifacts reached consensus that students performed at acceptable levels for Explanation of Issues, Influence of Context and Assumptions, and Student's Position, but did not meet their expectations for Evidence and Conclusions. They recommended to the faculty that they seek the help of the campus faculty development director to get advice about how to improve students' use of evidence and ability to reach conclusions. After some discussion, all faculty agreed with their conclusions and recommendation.

Dimension	Level 1	Level 2	Level 3	Level 4
Explanation of issues	0%	14%	70%	16%
Evidence	3%	37%	58%	2%
Influence of context and assumptions	0%	4%	80%	16%
Student's position (perspective, thesis/hypothesis)	0%	8%	60%	32%
Conclusions and related outcomes (implications and consequences)	26%	38%	34%	2%

The faculty development director suggested several possible pedagogical changes, and the faculty, as a whole, decided to add problem-centered learning to the four required courses that share responsibility for developing students' critical thinking skills. With the director's assistance, the six faculty who teach those courses met several times in November. This spring they are pilot testing a problem-centered learning assignment in each course, and they have agreed to integrate the AAC&U critical thinking rubric into the grading of these assignments. They plan to meet again at the end of the semester to discuss what they learned about using this pedagogy and the impact it had on students' critical thinking.

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### **YOUR REVIEW: What praise and constructive criticism would you offer?**

#### **1. Overall Report:**

#### **2. Evidence:**

#### **3. Assessment of the Evidence:**

#### **4. Use of the Evidence:**

# ADDITIONAL RESOURCES

## **A Collection of Literature and Online Resources** ***Learning and Assessment in Higher Education***

### **Useful Online Resources**

National Institute for Learning Outcomes Assessment (NILOA)

- Resource Library - <http://www.learningoutcomeassessment.org/publications.html>
- Occasional Papers - <http://www.learningoutcomeassessment.org/occasionalpapers.htm> (See also select papers below)
- Reports - <http://www.learningoutcomeassessment.org/NILOAReports.htm>

University of Kentucky ASSESS ListServ - <http://lsv.uky.edu/archives/assess.html>

Assessment Commons - <http://assessmentcommons.org/>

### **Program and Institutional Assessment**

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Chen, H.L. & Light, T.P. (2010) Electronic Portfolios and Student Success: Effectiveness, Efficiency, and Learning. Washington DC: AACU.

## **NILOA Occasional Papers** – *To see all papers, follow URL at top of document*

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## CAPSTONE RUBRIC

### Rubric for Using Capstone Experiences to Assess Program Learning Outcomes

Criterion	Initial	Emerging	Developed	Highly Developed
Relevant Outcomes and Lines of Evidence Identified	It is not clear which program outcomes will be assessed in the capstone course.	The relevant outcomes are identified, e.g., ability to integrate knowledge to solve complex problems; however, concrete plans for collecting evidence for each outcome have not been developed.	Relevant outcomes are identified. Concrete plans for collecting evidence for each outcome are agreed upon and used routinely by faculty who teach the capstone course.	Relevant evidence is collected; faculty has agreed on explicit criteria statements, e.g., rubrics, and has identified examples of student performance at varying levels of mastery for each relevant outcome.
Valid Results	It is not clear that potentially valid evidence for each relevant outcome is collected and/or individual faculty use idiosyncratic criteria to assess student work or performances.	Faculty has reached general agreement on the types of evidence to be collected for each outcome; they have discussed relevant criteria for assessing each outcome but these are not yet fully defined.	Faculty has agreed on concrete plans for collecting relevant evidence for each outcome. Explicit criteria, e.g., rubrics have been developed to assess the level of student attainment of each outcome.	Assessment criteria, such as rubrics, have been pilot-tested and refined over time; they are usually shared with students. Feedback from external reviewers has led to refinements in the assessment process, and the department uses external benchmarking data.
Reliable Results	Those who review student work are not calibrated to apply assessment criteria in the same way; there are no checks for inter-rater reliability.	Reviewers are calibrated to apply assessment criteria in the same way <u>or</u> faculty routinely check for inter-rater reliability.	Reviewers are calibrated to apply assessment criteria in the same way, <u>and</u> faculty routinely check for inter-rater reliability.	Reviewers are calibrated, and faculty routinely finds assessment data have high inter-rater reliability.
Results Are Used	Results for each outcome may or may not be collected. They are not discussed among faculty.	Results for each outcome are collected and may be discussed by the faculty, but results have not been used to improve the program.	Results for each outcome are collected, discussed by faculty, analyzed, and used to improve the program.	Faculty routinely discusses results, plan needed changes, secure necessary resources, and implement changes. They may collaborate with others, such as librarians or Student Affairs professionals, to improve results. Follow-up studies confirm that changes have improved learning.
The Student Experience	Students know little or nothing about the purpose of the capstone or outcomes to be assessed. It is just another course or requirement.	Students have some knowledge of the purpose and outcomes of the capstone. Communication is occasional, informal, and left to individual faculty or advisors.	Students have a good grasp of purpose and outcomes of the capstone and embrace it as a learning opportunity. Information is readily available in advising guides, etc.	Students are well-acquainted with the purpose and outcomes of the capstone and embrace it. They may participate in refining the experience, outcomes, and rubrics. Information is readily available.

## Guidelines for Using the Capstone Rubric

A capstone is a culminating course or experience that requires review, synthesis and application of what has been learned. For the fullest picture of an institution's accomplishments, reviews of written materials should be augmented with interviews at the time of the visit.

### *Dimensions of the Rubric:*

- 1. Relevant Outcomes and Evidence.** It is likely that not all program learning outcomes can be assessed within a single capstone course or experience.  
Questions: Have faculty explicitly determined which program outcomes will be assessed in the capstone? Have they agreed on concrete plans for collecting evidence relevant to each targeted outcome? Have they agreed on explicit criteria, such as rubrics, for assessing the evidence? Have they identified examples of student performance for each outcome at varying performance levels (e.g., below expectations, meeting expectations, exceeding expectations for graduation)?
- 2. Valid Results.** A valid assessment of a particular outcome leads to accurate conclusions concerning students' achievement of that outcome. Sometimes faculty collects evidence that does not have the potential to provide valid conclusions. For example, a multiple-choice test will not provide evidence of students' ability to deliver effective oral presentations. Assessment requires the collection of valid evidence and judgments about that evidence that are based on well-established, agreed-upon criteria that specify how to identify low, medium, or high-quality work.  
Questions: Are faculty collecting valid evidence for each targeted outcome? Are they using well-established, agreed-upon criteria, such as rubrics, for assessing the evidence for each outcome? Have faculty pilot tested and refined their process based on experience and feedback from external reviewers? Are they sharing the criteria with their students? Are they using benchmarking (comparison) data?
- 3. Reliable Results.** Well-qualified judges should reach the same conclusions about a student's achievement of a learning outcome, demonstrating inter-rater reliability. If two judges independently assess a set of materials, their ratings can be correlated and discrepancy between their scores can be examined. Data are reliable if the correlation is high and/or if discrepancies are small. Raters generally are calibrated ("normed") to increase reliability. Calibration usually involves a training session in which raters apply rubrics to preselected examples of student work that vary in quality, then reach consensus about the rating each example should receive. The purpose is to ensure that all raters apply the criteria in the same way so that each student's product would receive the same score, regardless of rater.  
Questions: Are reviewers calibrated? Are checks for inter-rater reliability made? Is there evidence of high inter-rater reliability?
- 4. Results Are Used.** Assessment is a process designed to monitor and improve learning, so assessment findings should have an impact. Faculty can reflect on results for each outcome and decide if they are acceptable or disappointing. If results do not meet faculty standards, faculty can determine which changes should be made, e.g., in pedagogy, curriculum, student support, or faculty support.  
Questions: Do faculty collect assessment results, discuss them, and reach conclusions about student achievement? Do they develop explicit plans to improve student learning? Do they implement those plans? Do they have a history of securing necessary resources to support this implementation? Do they collaborate with other institution professionals to improve student learning? Do follow-up studies confirm that changes have improved learning?
- 5. The Student Experience.** Students should understand the purposes different educational experiences serve in promoting their learning and development and know how to take advantage of them; ideally they can also participate in shaping those experiences.  
Questions: Are purposes and outcomes communicated to students? Do they understand how capstones support learning? Do they participate in reviews of the capstone experience, its outcomes, criteria, or related activities?

## GENERAL EDUCATION RUBRIC

### Rubric for Evaluating General Education Assessment Process

Criterion	Initial	Emerging	Developed	Highly Developed
GE Outcomes	GE learning outcomes have not yet been developed for the entire GE program; there may be one or two common ones, e.g., writing, critical thinking.	Learning outcomes have been developed for the entire GE program, but list is problematic (e.g. too long, too short, unconnected to mission and non-assessable values.)	Outcomes are well organized, assessable, and focus on the most important knowledge, skill, and values of GE. Work to define levels of performance is beginning.	Outcomes are reasonable, appropriate, and assessable. Explicit criteria, such as rubrics, are available for assessing student learning. Exemplars or student performance are specified at varying levels for each outcome.
Curriculum Alignment with Outcomes	No clear relationship between the outcomes and the GE curriculum. Students may not have opportunity to develop each outcome adequately.	Students appear to have opportunities to develop each outcome. Curriculum map shows opportunities to acquire outcomes. Sequencing and frequency of opportunities may be problematic.	Curriculum is explicitly designed to provide opportunities for students to develop increasing sophistication re each outcome. Curriculum map shows "beginning," "intermediate," and "advanced" treatment of outcomes.	Curriculum, pedagogy, grading, advising, are explicitly aligned with GE outcomes. Curriculum map and rubrics are well known and consistently used. Co-curricular viewed as resources for GE learning and aligned with GE outcomes.
Assessment Planning	No formal plan for assessing each GE outcome. No coordinator or committee that takes responsibility for the program or implementation of its assessment plan.	GE assessment relies on short-term planning: selecting which outcome(s) to assess in the current year. Interpretation and use of findings are implicit rather than planned or funded. No individual or committee is in charge.	Campus has a reasonable, multi-year assessment plan that identifies when each outcome will be assessed. Plan addresses use of findings for improvement. A coordinator or committee is charged to oversee assessment.	Campus has a fully articulated, sustainable, multi-year assessment plan that describes when and how each outcome will be assessed. A coordinator or committee leads review and revision of the plan, as needed. Campus uses some form of comparative data (e.g., own past record, aspirational goals, external benchmarking).
Assessment Implementation	Not clear that potentially valid evidence for each GE outcome is collected <u>and/or</u> individual reviewers use idiosyncratic criteria to assess student work.	Appropriate evidence is collected; some discussion of relevant criteria for assessing outcome. Reviewers of student work are calibrated to apply assessment criteria in the same way, and/or faculty check for inter-rater reliability.	Appropriate evidence is collected; faculty use explicit criteria, such as rubrics, to assess student attainment of each outcome. Reviewers of student work are calibrated to apply assessment criteria in the same way; faculty routinely checks for inter-rater reliability.	Assessment criteria, such as rubrics, have been pilot-tested and refined and typically shared with students. Reviewers are calibrated with high inter-rater reliability. Comparative data used when interpreting results and deciding on changes for improvement.
Use of Results	Results for GE outcomes are collected, but not discussed Little or no collective use of findings. Students are unaware of and/or uninvolved in the process.	Results are collected and discussed by relevant faculty; results used occasionally to improve the GE program. Students are vaguely aware of outcomes and assessments to improve their learning.	Results for each outcome are collected, discussed by relevant faculty, and regularly used to improve the program. Students are very aware of and engaged in improvement of their learning.	Relevant faculty routinely discusses results, plan improvements, secure necessary resources, and implement changes. They may collaborate with others to improve the program. Follow-up studies confirm that changes have improved learning.

## Guidelines for Using the General Education Rubric

For the fullest picture of an institution's accomplishments, reviews of written materials should be augmented with interviews at the time of the visit. Discussion validates that the reality matches the written record.

### *Dimensions of the Rubric:*

- 1. GE Outcomes.** The GE learning outcomes consists of the most important knowledge, skills, and values students learn in the GE program. There is no strict rule concerning the optimum number of outcomes, and quality is more important than quantity. Do not confuse learning processes (e.g., completing a science lab) with learning outcomes (what is learned in the science lab, such as ability to apply the scientific method). Outcome statements specify what students do to demonstrate their learning. Criteria for assessing student work are usually specified in rubrics, and faculty identify examples of varying levels of student performance, such as work that does not meet expectations, that meets expectations and that exceeds expectations.  
Questions: Is the list of outcomes reasonable and appropriate? Do the outcomes express how students can demonstrate learning? Have faculty agreed on explicit criteria, such as rubrics, for assessing each outcome? Do they have exemplars of work representing different levels of mastery for each outcome?
- 2. Curriculum Alignment.** Students cannot be held responsible for mastering learning outcomes without a GE program that is explicitly designed to develop those outcomes. This design is often summarized as a curriculum map—a matrix that shows the relationship between courses and learning outcomes. Pedagogy and grading aligned with outcomes help encourage student growth and provide students' feedback on their development. Relevant academic support and student services can also be designed to support development of the learning outcomes, since learning occurs outside of the classroom as well as within it.  
Questions: Is the GE curriculum explicitly aligned with program outcomes? Does faculty select effective pedagogies and use grading to promote learning? Are support services explicitly aligned to promote student development of GE learning outcomes?
- 3. Assessment Planning.** Explicit, sustainable plans for assessing each GE outcome need to be developed. Each outcome does not need to be assessed every year, but the plan should cycle through the outcomes over a reasonable period of time, such as the period for program review cycles. Experience and feedback from external reviewers can guide plan revision.  
Questions: Does the campus have a GE assessment plan? Does the plan clarify when, how, and how often each outcome will be assessed? Will all outcomes be assessed over a reasonable period of time? Is the plan sustainable? Supported by appropriate resources? Are plans revised, as needed, based on experience and feedback from external reviewers? Does the plan include collection of comparative data?
- 4. Assessment Implementation.** Assessment requires the collection of valid evidence that is based on agreed-upon criteria that identify work that meets or exceeds expectations. These criteria are usually specified in rubrics. Well-qualified judges should reach the same conclusions about a student's achievement of a learning outcome, demonstrating inter-rater reliability. If two judges independently assess a set of materials, their ratings can be correlated and discrepancy between their scores can be examined. Data are reliable if the correlation is high and/or if discrepancies are small. Raters generally are calibrated ("normed") to increase reliability. Calibration usually involves a training session in which raters apply rubrics to preselected examples of student work that vary in quality, then reach consensus about the rating each example should receive. The purpose is to ensure that all raters apply the criteria in the same way so that each student's product would receive the same score, regardless of rater.  
Questions: Do GE assessment studies systematically collect valid evidence for each targeted outcome? Does faculty use agreed-upon criteria such as rubrics for assessing the evidence for each outcome? Do they share the criteria with their students? Are those who assess student work calibrated in the use of assessment criteria? Does the campus routinely document high inter-rater reliability? Do faculty pilot-test and refine their assessment processes? Do they take external benchmarking (comparison) data into account when interpreting results?
- 5. Use of Results.** Assessment is a process designed to monitor and improve learning. Faculty can reflect on results for each outcome and decide if they are acceptable or disappointing. If results do not meet faculty standards, faculty (and others, such as student affairs personnel, librarians, and tutors) can determine what changes should be made, e.g., in pedagogy, curriculum, student support, or faculty supports.  
Questions: Do faculty collect assessment results, discuss them, and reach conclusions about student achievement? Do they develop explicit plans to improve student learning? Do they implement those plans? Do they have a history of securing necessary resources to support this implementation? Do they collaborate with other campus professionals to improve student learning? Do follow-up studies confirm that changes have improved learning?

## PORTFOLIOS RUBRIC

### Rubric for Using Portfolios to Assess Program Learning Outcomes

Criterion	Initial	Emerging	Developed	Highly Developed
Clarification of Students' Tasks	Instructions to students for portfolio development provide insufficient detail for them to know what faculty expects. Instructions may not identify outcomes to be addressed in the portfolio.	Students receive instructions for their portfolios, but they still have problems determining what is required of them and/or why they are compiling a portfolio.	Students receive instructions that describe faculty expectations in detail and include the purpose of the portfolio, types of evidence to include, role of the reflective essay (if required), and format of the finished product.	Students in the program understand the portfolio requirement and the rationale for it, and they view the portfolio as helping them develop self-assessment skills. Faculty may monitor the developing portfolio to provide formative feedback and/or advise individual students.
Valid Results	It is not clear that valid evidence for each relevant outcome is collected and/or individual reviewers use idiosyncratic criteria to assess student work.	Appropriate evidence is collected for each outcome, and faculty has discussed relevant criteria for assessing each outcome.	Appropriate evidence is collected for each outcome; faculty use explicit criteria, such as agreed-upon rubrics, to assess student attainment of each outcome. Rubrics are usually shared with students.	Assessment criteria, e.g., in the form of rubrics, have been pilot-tested and refined over time; they are shared with students, and students may have helped develop them. Feedback from external reviewers has led to refinements in the assessment process. The department also uses external benchmarking data.
Reliable Results	Those who review student work are not calibrated with each other to apply assessment criteria in the same way, and there are no checks for inter-rater reliability.	Reviewers are calibrated to apply assessment criteria in the same way or faculty routinely check for inter-rater reliability.	Reviewers are calibrated to apply assessment criteria in the same way, and faculty routinely check for inter-rater reliability.	Reviewers are calibrated; faculty routinely finds that assessment data have high inter-rater reliability.
If Results Are Used	Results for each outcome are collected, but they are not discussed among the faculty.	Results for each outcome are collected and discussed by the faculty, but results have not been used to improve the program.	Results for each outcome are collected, discussed by faculty, and used to improve the program.	Faculty routinely discusses results, plan needed changes, secure necessary resources, and implement changes. They may collaborate with others, such as librarians or Student Affairs professionals, to improve student learning. Students may also participate in discussions and/or receive feedback, either individual or in the aggregate. Follow-up studies confirm that changes have improved learning.
Technical Support for e-Portfolios	There is no technical support for students or faculty to learn the software or to deal with problems.	There is informal or minimal formal support for students and faculty.	Formal technical support is readily available and technicians proactively assist users in learning the software and solving problems.	Support is readily available, proactive, and effective. Programming changes are made when needed.

## Guidelines for Using the Portfolio Rubric

Portfolios can serve multiple purposes: to build students' confidence by showing development over time; to display students' best work; to better advise students; to provide examples of work students can show to employers; to assess program learning outcomes. This rubric addresses the use of rubrics for assessment. Two common types of portfolios for assessing student learning outcomes are:

- Showcase portfolios – collections of each student's best work
- Developmental portfolios – collections of work from early, middle, and late stages in the student's academic career that demonstrate growth. Faculty generally requires students to include a reflective essay that describes how the evidence in the portfolio demonstrates their achievement of program learning outcomes. Sometimes faculty monitors developing portfolios to provide formative feedback and/or advising to students, and sometimes they collect portfolios only as students near graduation. Portfolio assignments should clarify the purpose of the portfolio, the kinds of evidence to be included, and the format (e.g., paper vs. e-portfolios); and students should view the portfolio as contributing to their personal development.

### *Dimensions of the Rubric:*

- 1. Clarification of Students' Task.** Most students have never created a portfolio, and they need explicit guidance.  
Questions: Does the portfolio assignment provide sufficient detail so students understand the purpose, the types of evidence to include, the learning outcomes to address, the role of the reflective essay (if any), and the required format? Do students view the portfolio as contributing to their ability to self-assess? Does faculty use the developing portfolios to assist individual students?
- 2. Valid Results.** Sometimes portfolios lack valid evidence for assessing particular outcomes. For example, portfolios may not allow faculty to assess how well students can deliver oral presentations. Judgments about that evidence need to be based on well-established, agreed-upon criteria that specify (usually in rubrics) how to identify work that meets or exceeds expectations.  
Questions: Do the portfolios systematically include valid evidence for each targeted outcome? Is faculty using well-established, agreed-upon criteria, such as rubrics, to assess the evidence for each outcome? Have faculty pilot-tested and refined their process? Are criteria shared with students? Are they collaborating with colleagues at other institutions to secure benchmarking (comparison) data?
- 3. Reliable Results.** Well-qualified judges should reach the same conclusions about a student's achievement of a learning outcome, demonstrating inter-rater reliability. If two judges independently assess a set of materials, their ratings can be correlated and discrepancy between their scores can be examined. Data are reliable if the correlation is high and/or if discrepancies are small. Raters generally are calibrated ("normed") to increase reliability. Calibration usually involves a training session in which raters apply rubrics to preselected examples of student work that vary in quality, then reach consensus about the rating each example should receive. The purpose is to ensure that all raters apply the criteria in the same way so that each student's product would receive the same score, regardless of rater.  
Questions: Are reviewers calibrated? Are checks for inter-rater reliability made? Is there evidence of high inter-rater reliability?
- 4. Results Are Used.** Assessment is a process designed to monitor and improve learning, so assessment findings should have an impact. Faculty can reflect on results for each outcome and decide if they are acceptable or disappointing. If results do not meet their standards, faculty can determine what changes should be made, e.g., in pedagogy, curriculum, student support, or faculty support.  
Questions: Do faculty collect assessment results, discuss them, and reach conclusions about student achievement? Do they develop explicit plans to improve student learning? Do they implement those plans? Do they have a history of securing necessary resources to support this implementation? Do they collaborate with other institution professionals to improve student learning? Do follow-up studies confirm that changes have improved learning?
- 5. Technical Support for e-Portfolios.** Faculty and students alike require support, especially when a new software program is introduced. Lack of support can lead to frustration and failure of the process. Support personnel may also have useful insights into how the portfolio assessment process can be refined.  
Questions: What is the quality and extent of technical support? What is the overall level of faculty and student satisfaction with the technology and support services?



## PROGRAM LEARNING OUTCOMES RUBRIC

### Rubric for Assessing the Quality of Academic Program Learning Outcomes

Criterion	Initial	Emerging	Developed	Highly Developed
Comprehensive List	The list of outcomes is problematic: e.g., very incomplete, overly detailed, inappropriate, and disorganized. It may include only discipline-specific learning, ignoring relevant institution-wide learning. The list may confuse learning processes (e.g., doing an internship) with learning outcomes (e.g., application of theory to real-world problems).	The list includes reasonable outcomes but does not specify expectations for the program as a whole. Relevant institution-wide learning outcomes and/or national disciplinary standards may be ignored. Distinctions between expectations for undergraduate and graduate programs may be unclear.	The list is a well-organized set of reasonable outcomes that focus on the key knowledge, skills, and values students learn in the program. It includes relevant institution-wide outcomes (e.g., communication or critical thinking skills). Outcomes are appropriate for the level (undergraduate vs. graduate); national disciplinary standards have been considered.	The list is reasonable, appropriate, and comprehensive, with clear distinctions between undergraduate and graduate expectations, if applicable. National disciplinary standards have been considered. Faculty has agreed on explicit criteria for assessing students' level of mastery of each outcome.
Assessable Outcomes	Outcome statements do not identify what students can do to demonstrate learning. Statements such as "Students understand scientific method" do not specify how understanding can be demonstrated and assessed.	Most of the outcomes indicate how students can demonstrate their learning.	Each outcome describes how students can demonstrate learning, e.g., "Graduates can write reports in APA style" or "Graduates can make original contributions to biological knowledge."	Outcomes describe how students can demonstrate their learning. Faculty has agreed on explicit criteria statements, such as rubrics, and has identified examples of student performance at varying levels for each outcome.
Alignment	There is no clear relationship between the outcomes and the curriculum that students experience.	Students appear to be given reasonable opportunities to develop the outcomes in the required curriculum.	The curriculum is designed to provide opportunities for students to learn and to develop increasing sophistication with respect to each outcome. This design may be summarized in a curriculum map.	Pedagogy, grading, the curriculum, relevant student support services and co-curriculum are explicitly and intentionally aligned with each outcome. Curriculum map indicates increasing levels of proficiency.
Assessment Planning	There is no formal plan for assessing each outcome.	The program relies on short-term planning, such as selecting which outcome(s) to assess in the current year.	The program has a reasonable, multi-year assessment plan that identifies when each outcome will be assessed. The plan may explicitly include analysis and implementation of improvements.	The program has a fully-articulated, sustainable, multi-year assessment plan that describes when and how each outcome will be assessed and how improvements based on findings will be implemented. The plan is routinely examined and revised, as needed.
The Student Experience	Students know little or nothing about the overall outcomes of the program. Communication of outcomes to students, e.g. in syllabi or catalog, is spotty or nonexistent.	Students have some knowledge of program outcomes. Communication is occasional and informal, left to individual faculty or advisors.	Students have a good grasp of program outcomes. They may use them to guide their own learning. Outcomes are included in most syllabi and are readily available in the catalog, on the web page, and elsewhere.	Students are well-acquainted with program outcomes and may participate in the creation and use of rubrics. They are skilled at self-assessing in relation to the outcomes and levels of performance. Program policy calls for inclusion of outcomes in all course syllabi, and they are readily available in other program documents.

### Guidelines on Using the Learning Outcomes Rubric

This rubric is intended to help teams assess the extent to which an institution has developed and assessed program learning outcomes and made improvements based on assessment results. For the fullest picture of an institution's accomplishments, reviews of written materials should be augmented with interviews at the time of the visit.

#### *Dimensions of the Rubric:*

- 1. Comprehensive List.** The set of program learning outcomes should be a short but comprehensive list of the most important knowledge, skills, and values students learn in the program. Higher levels of sophistication are expected for graduate program outcomes than for undergraduate program outcomes. There is no strict rule concerning the optimum number of outcomes, but quality is more important than quantity. Learning processes (e.g., completing an internship) should not be confused with learning outcomes (what is learned in the internship, such as application of theory to real-world practice).  
Questions. Is the list reasonable, appropriate and well organized? Are relevant institution-wide outcomes, such as information literacy, included? Are distinctions between undergraduate and graduate outcomes clear? Have national disciplinary standards been considered when developing and refining the outcomes? Are explicit criteria – as defined in a rubric, for example – available for each outcome?
- 2. Assessable Outcomes.** Outcome statements specify what students can do to demonstrate their learning. For example, an outcome might state, “Graduates of our program can collaborate effectively to reach a common goal” or “Graduates of our program can design research studies to test theories.” These outcomes are assessable because the quality of collaboration in teams and the quality of student-created research designs can be observed. Criteria for assessing student products or behaviors usually are specified in rubrics that indicate varying levels of student performance (i.e., work that does not meet expectations, meets expectations, and exceeds expectations).  
Questions. Do the outcomes clarify how students can demonstrate learning? Are there agreed upon, explicit criteria, such as rubrics, for assessing each outcome? Are there examples of student work representing different levels of mastery for each outcome?
- 3. Alignment.** Students cannot be held responsible for mastering learning outcomes without a curriculum that is designed to develop increasing sophistication with respect to each outcome. This design is often summarized in a curriculum map – a matrix that shows the relationship between courses in the required curriculum and the program's learning outcomes. Pedagogy and grading aligned with outcomes help encourage student growth and provide students feedback on their development.  
Questions. Is the curriculum explicitly aligned with the program outcomes? Do faculty select effective pedagogy and use grading to promote learning? Are student support services and the co-curriculum explicitly aligned to reinforce and promote the development of student learning outcomes?
- 4. Assessment Planning.** Programs need not assess every outcome every year, but faculty are expected to have a plan to cycle through the outcomes over a reasonable period of time, such as the timeframe for program review.  
Questions. Does the plan clarify when, how, and how often each outcome will be assessed? Will all outcomes be assessed over a reasonable period of time? Is the plan sustainable, in terms of human, fiscal, and other resources? Are assessment plans revised, as needed?
- 5. The Student Experience.** At a minimum, students need to be aware of the learning outcomes of the program(s) in which they are enrolled. Ideally, they could be included as partners in defining and applying the outcomes and the criteria for varying levels of accomplishment.  
Questions: Are the outcomes communicated to students consistently and meaningfully? Do students understand what the outcomes mean and how they can further their own learning? Do students use the outcomes and criteria to self-assess? Do they participate in reviews of outcomes, criteria, curriculum design, or related activities?

## PROGRAM REVIEW RUBRIC

### Rubric for Assessing the Integration of Student Learning Assessment into Program Reviews

Criterion	Initial	Emerging	Developed	Highly Developed
Required Elements of the Self-Study	Program faculty may be required to provide a list of program-level student learning outcomes.	Faculty are required to provide the program's student learning outcomes and summarize annual assessment findings.	Faculty are required to provide the program's student learning outcomes, annual assessment studies, findings, and resulting changes. They may be required to submit a plan for the next cycle of assessment studies.	Faculty are required to evaluate the program's student learning outcomes, annual assessment findings, bench-marking results, subsequent changes, and evidence concerning the impact of these changes. They present a plan for the next cycle of assessment studies.
Process of Review	Internal and external reviewers do not address evidence concerning the quality of student learning in the program other than grades.	Internal and external reviewers address indirect and possibly direct evidence of student learning in the program; they do so at the descriptive level, rather than providing an evaluation.	Internal and external reviewers analyze direct and indirect evidence of student learning in the program and offer evaluative feedback and suggestions for improvement. They have sufficient expertise to evaluate program efforts. Departments use the feedback to improve their work.	Well-qualified internal and external reviewers evaluate the program's learning outcomes, assessment plan, evidence, benchmarking results, and assessment impact. They give evaluative feedback and suggestions for improvement. The department uses the feedback to improve student learning.
Planning and Budgeting	The campus has not integrated program reviews into planning and budgeting processes.	The campus has attempted to integrate program reviews into planning and budgeting processes, but with limited success.	The campus generally integrates program reviews into planning and budgeting processes, but not through a formal process.	The campus systematically integrates program reviews into planning and budgeting processes, e.g., through negotiating formal action plans with mutually agreed-upon commitments.
Annual Feedback on Assessment Efforts	No individual or committee on campus provides feedback to departments on the quality of their outcomes, assessment plans, assessment studies, impact, etc.	An individual or committee occasionally provides feedback on the quality of outcomes, assessment plans, assessment studies, etc.	A well-qualified individual or committee provides annual feedback on the quality of outcomes, assessment plans, assessment studies, etc. Departments use the feedback to improve their work.	A well-qualified individual or committee provides annual feedback on the quality of outcomes, assessment plans, assessment studies, benchmarking results, and assessment impact. Departments effectively use the feedback to improve student learning. Follow-up activities enjoy institutional support
The Student Experience	Students are unaware of and uninvolved in program review.	Program review may include focus groups or conversations with students to follow up on results of surveys	The internal and external reviewers examine samples of student work, e.g., sample papers, portfolios, and capstone projects. Students may be invited to discuss what they learned and how they learned it.	Students are respected partners in the program review process. They may offer poster sessions on their work, demonstrate how they apply rubrics to self-assess, and/or provide their own evaluative feedback.

## Guidelines for Using the Program Review Rubric

For the fullest picture of an institution's accomplishments, reviews of written materials should be augmented with interviews at the time of the visit.

### *Dimensions of the Rubric:*

1. **Self-Study Requirements.** The campus should have explicit requirements for the program's self-study, including an analysis of the program's learning outcomes and a review of the annual assessment studies conducted since the last program review. Faculty preparing the self-study can reflect on the accumulating results and their impact, and plan for the next cycle of assessment studies. As much as possible, programs can benchmark findings against similar programs on other campuses.

Questions: Does the campus require self-studies that include an analysis of the program's learning outcomes, assessment studies, assessment results, benchmarking results, and assessment impact, including the impact of changes made in response to earlier studies? Does the campus require an updated assessment plan for the subsequent years before the next program review?

2. **Self-Study Review.** Internal reviewers (on-campus individuals) and external reviewers (off-campus individuals, usually disciplinary experts) evaluate the program's learning outcomes, assessment plan, assessment evidence, benchmarking results, and assessment impact; and they provide evaluative feedback and suggestions for improvement.

Questions: Who reviews the self-studies? Do they have the training or expertise to provide effective feedback? Do they routinely evaluate the program's learning outcomes, assessment plan, assessment evidence, benchmarking results, and assessment impact? Do they provide suggestions for improvement? Do departments effectively use this feedback to improve student learning?

3. **Planning and Budgeting.** Program reviews are not be *pro forma* exercises; they should be tied to planning and budgeting processes, with expectations that increased support will lead to increased effectiveness, such as improving student learning and retention rates.

Questions: Does the campus systematically integrate program reviews into planning and budgeting processes? Are expectations established for the impact of planned changes?

4. **Annual Feedback on Assessment Efforts.** Institutions often find considerable variation in the quality of assessment efforts across programs. While program reviews encourage departments to reflect on multi-year assessment results, some programs are likely to require more immediate feedback, usually based on a required annual assessment report. This feedback might be provided by an assessment director or committee, relevant dean or others; and whoever has this responsibility should have the expertise to provide quality feedback.

Questions: Does someone or a committee have the responsibility for providing annual feedback on the assessment process? Does this person or team have the expertise to provide effective feedback? Does this person or team routinely provide feedback on the quality of outcomes, assessment plans, assessment studies, benchmarking results, and assessment impact? Do departments effectively use this feedback to improve student learning?

5. **The Student Experience.** Students have a unique perspective on a given program of study: they know better than anyone what it means to go through it as a student. Program review can take advantage of that perspective and build it into the review.

Questions: Are students aware of the purpose and value of program review? Are they involved in preparations and the self-study? Do they have an opportunity to interact with internal or external reviewers, demonstrate and interpret their learning, and provide evaluative feedback?



## Core Competency FAQs

### Overview & Purpose

In the *2013 Handbook of Accreditation*, Criteria for Review 2.2a states:

Baccalaureate programs engage students in an integrated course of study of sufficient breadth and depth to prepare them for work, citizenship, and life-long learning. These programs ensure the development of core competencies including, but not limited to, **written and oral communication, quantitative reasoning, information literacy, and critical thinking.**

Component 4 (Educational Quality) of the Institutional Review Process asks for institutions “to describe how the curriculum addresses each of the five core competencies, explain their learning outcomes in relation to those core competencies, and demonstrate, through evidence of student performance, the extent to which those outcomes are achieved.”

The purpose of these FAQs is to provide additional information to institutions regarding the five core competencies.

### **1. How did WSCUC come up with these five competencies? Why were writing (W), oral communication (OC), quantitative reasoning (QR), information literacy (IL), and critical thinking (CT) singled out for such focused treatment in the institutional report?**

These competencies have been part of Standard 2 for undergraduate degrees (criterion for review 2.2a) since 2001. The language of CFR 2.2 states that “all degrees . . . awarded by the institution are clearly defined in terms of . . . levels of student achievement necessary for graduation that represent more than simply an accumulation of courses or credits.” Now, at a time when there is widespread concern about the quality of graduates’ learning, and when assessment practices have emerged that are able to address these outcomes in nuanced ways, the Commission is asking for documentation of actual achievement.

While CFR 2.2a mentions additional outcomes beyond the five core competencies – e.g., creativity, appreciation for diversity, and civic engagement – the five that are the focus of component 4 were deemed generic, fundamental to students’ future success, and assessable. The focus on these five does not in any way limit institutions that wish to address additional competencies.

### **2. What are the definitions of these five core competencies? Who gets to define them?**

Institutions are free to define each core competency in a way that makes sense for the institution, its mission, its values, and the needs of its student body. The assumption, however, is that these are generic competencies – that is, applicable across multiple programs – that will be approached in an interdisciplinary, integrative way. Institutions have a lot of latitude in deciding how they will do that.

### **3. Are these core competencies supposed to be institutional learning outcomes (ILOs)?**

That's one way to approach them. For many institutions, there's a lot of overlap between their ILOs and the five core competencies. For very large, complex institutions, it may be more appropriate – and manageable – to approach them at the college, division, or department level.

### **4. Can institutions assess the core competencies in the major?**

Because most students take major courses right to the end of their studies, there are advantages in embedding core competencies into the assessment of the major or professional field. Many majors use capstones, senior projects, e-portfolios, or other methods of collecting student work for assessment, and these can provide evidence of students' mastery of the competencies. Assessing core competencies at the degree level allows expectations and types of evidence to be adapted to the degree. For example, depending on the field, oral communication skills might be demonstrated through debating, interviewing, negotiating, counseling, or presenting ideas.

In some cases, assessing students' level of achievement in a particular competency through the major assessment might not seem appropriate (e.g., quantitative reasoning in an English or dance major) or feasible, where faculty are reluctant to integrate them into their assessment of the major. In that case, the institution can look at other options such as upper-division GE; signature assignments across a range of upper-division courses that students may be taking as electives; or a core competency portfolio that students assemble with artifacts that illustrate each of the core competencies. The benefit of this last approach is that it can also include items from the co-curriculum or internships.

So the answer to the question about "having" to assess core competencies in the major is no. The major is probably the easiest place to do it, but not the only place, and it's definitely not required.

### **5. Do institutions need to assess and support transfer students' development of the CCs?**

Yes. The diploma that students receive, whether they're native students or transfers, will look the same. It's the institution's responsibility – as well as in the student's interest – to ensure that the degree represents high-quality learning for every graduate.

### **6. Academic programs are all so different. Does this mean there are different definitions of the core competencies and different assessment processes for each program?**

Program-level learning and assessment results are very important; they're a key part of program review, which also has a place in the 2013 institutional review process, or IRP (see Component #6: Quality Assurance and Improvement). But with the core competencies, the goal is a higher level of aggregation: the institution level, or at very large and complex universities, the school or college or division level. Institutions should develop processes that allow for differences while at the same time focusing on commonalities across disciplines.

### **7. Is it necessary to document how much students learned and developed from entry to exit? Should there be pre- and post-testing?**

No. While it can be useful to know the trajectory of students' learning over time, so faculty can see where they improved or plateaued or even became less proficient, the focus is on their level of

proficiency at graduation. Think of assessment that measures growth as a tool for enhancing the final result. Pre- and post-testing is one approach to assessment, and it may be useful. But it can also be costly, it is methodologically challenging, and the results can be difficult to interpret. In some contexts, it can be inauthentic and self-serving.

**8. What about institutions that award A.A. or A.S. degrees? Should core competencies be assessed for students as they leave with an associate's degree? What if they transfer to a baccalaureate program?**

Yes, the Commission cares about students' mastery of competencies in all degree programs, from associate to graduate levels. Institutions that award A.A. or A.S. degrees should also set standards, report results, and document plans for improvement when necessary at those levels.

**9. Does this core competency requirement mean that institutions have to show 100% of students meeting the standard? Or that a student who doesn't meet the standard gets a failing grade – for example on their capstone – or doesn't graduate?**

No. What is important—to the institution as well as the Commission—is the distribution: what proportion of your students is meeting the standard or even exceeding it? What proportion is below the standard, and how far below? And what do you plan to do to raise overall performance and shift the distribution upward, if you are dissatisfied with the results?

**10. How can such extensive and complex findings be documented for the institutional review process, particularly at large institutions with hundreds of programs, multiple divisions, and several degree levels?**

As an element of their institutional reports, institutions are asked to describe and provide evidence of how they assess students' achievement of core competencies. Institutions are free to decide how best to organize the setting of proficiency standards, assessment, documentation, and reporting of results, but it must be clear that this work is documented as it occurs throughout the institution. For large, complex institutions a narrative summary might be provided to include where responsibility for this work lies; general information on the definition of these proficiencies and how they were developed; general information on cycles and timelines for reviews across the institution; systems or processes for reviewing data/information obtained through reviews; and locus of authority for taking action based on results. A matrix providing specifics could be created to demonstrate the pervasiveness and effectiveness of this work throughout the institution. Depending on the size and structure of the institution, this might be done through a selection of examples that represent all of the institution's programs, divisions, and degree levels.

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Adopted by the Commission in June 2014



## Meaning, Quality, and Integrity of Degrees FAQs

### Overview & Purpose

In the *2013 Handbook of Accreditation*, institutions are asked to address the Meaning, Quality, and Integrity of Degrees in component 3 of the institutional report. The purpose of these FAQs is to provide additional information to institutions regarding how to think about and address this component.

#### **1. What is meant by the “meaning,” “quality,” and “integrity” of degrees and how can an institution demonstrate it is meeting this requirement?**

CFR 2.2 indicates that the degree as a whole should be more than the sum of its traditional parts: courses, credits, and grades. Demonstrating the meaning of degrees thus involves addressing questions about what the institution expects its students – undergraduates and graduates alike – to know and be able to do upon graduation, and how graduates embody the distinct values and traditions of the institution through their dispositions and future plans. A degree that is of high quality and integrity is one in which appropriately relevant and challenging learning goals are met by students who are offered a rich and coherent educational experience that is designed, delivered, and assessed by appropriately qualified faculty and supported by other institutional personnel as needed to ensure student success in achieving those goals. An institution may want to address all of these elements in providing evidence of the meaning, quality, and integrity of its degrees.

#### **2. Why are institutions in the region being asked to define and document the meaning, quality, and integrity of our degrees?**

The value of higher education in the U.S. is being questioned today more forcefully than at any time in recent memory. Institutions and accreditors are challenged to demonstrate that it is worth the time, effort, and money necessary for students to engage in and complete postsecondary study leading to a degree. Traditionally, institutions have described their degrees either very generally (i.e., as something of self-evident value) or very concretely (in terms of specific degree requirements and preparation for specific professions). This component of the institutional report asks for something different: a holistic exploration of the middle ground between those two extremes, expressed in terms of the outcomes for students and the institutional mechanisms that support those outcomes. Defining the meaning of higher degrees can provide clarity for institutions, for students, and for a public that seeks to understand what unique educational experience will be had at that particular institution and what makes the investment in that experience worthwhile.



**3. What's the relationship between the meaning, quality, and integrity of degrees (component 3 of the institutional report) and educational quality, specifically the core competencies (component 4)?**

Component 3 takes a broad, holistic view of the entire educational experience leading to a degree; component 4 is concerned with five specific higher-order intellectual skills that provide a foundation for current and future learning. For Component 3, institutions are encouraged to develop their own strategies for articulating the meaning of their degrees in ways that make sense for their mission, values, and student populations.

The response in Component 4 should convey the institution's expectations for its graduates' performance in these specific areas and how the institution determines whether graduates are reliably achieving those expectations. It is the institution's responsibility to set expectations for learning outcomes that are appropriate to the institution's mission, programs offered, student characteristics, and other criteria. The institution analyzes the evidence according to its own judgment, reports on student achievement of its learning outcomes in a way that makes sense for the institution (e.g., as a single score, or within ranges or qualitative categories), contextualizes the findings according to the mission and priorities of the institution, and formulates its own plans for improvement, if needed.

An institution's response in component 3 provides a broad background for understanding how these specific competencies are related to the meaning of the institution's degrees. Some institutions might find it useful to frame their response to component 3 in a way that anticipates its response to component 4. The *2013 Handbook* notes that institutions may structure their reports in the way that they find best suited to telling their stories and are free to depart from the suggested order by combining or reordering the components. However, reviewers should be able to identify the parts of the report that are intended as the response to the various components.

**4. Do institutions have to use the Degree Qualifications Profile (DQP)? Does it improve their chances of a positive review if they do?**

No and No. WSCUC does not require institutions to use the DQP or any other specific framework or resource. Rather, institutions are encouraged to develop their own strategies for articulating the meaning of their degrees in ways that make sense for their mission, values, and student populations.

**5. Are institutions being asked to document that every student is meeting every expectation?**

No. For good assessment practices to be sustainable, sampling is appropriate in most cases. Institutions are free to develop practices that best meet their needs.

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Adopted by the Commission in June 2014

Higher Education Associations: AACC, AASCU, ACE, AAU, APLU, NAICU  
Regional Accrediting Commissions: MSCHE, NEASC-CIHE, NCA-HLC, NWCCU, SACS, WASC-ACCJC, WASC-ACSCU

## **Principles for Effective Assessment of Student Achievement**

July 19, 2013

The undersigned national higher education associations and regional accrediting commissions have endorsed the attached statement, “Principles for Effective Assessment of Student Achievement.” The statement grew out of a meeting of the presidents of the seven regional accrediting commissions and public and private university provosts. The statement is intended to emphasize the need to assess effectively student achievement, and the importance of conducting such assessments in ways that are congruent with the institution’s mission.

We hope that colleges and universities will find this statement useful in evaluating their assessment policies and procedures and that accrediting commissions similarly will find the statement helpful in evaluating their assessment standards. Looking ahead, we believe that the shared principles of this consensus statement can facilitate continued cooperation and collaboration between these two allied sectors of the higher education community.

### **Higher Education Associations:**

*American Association of Community Colleges  
(AACC)*

*American Association of State Colleges and  
Universities (AASCU)*

*American Council on Education (ACE)*

*Association of American Universities (AAU)*

*Association of Public and Land-grant Universities  
(APLU)*

*National Association of Independent Colleges and  
Universities (NAICU)*

### **Regional Accrediting Commissions:**

*Middle States Commission on Higher Education  
(MSCHE)*

*New England Association of Schools and Colleges  
Commission on Institutions of Higher Education  
(NEASC-CIHE)*

*North Central Association of Colleges and Schools,  
The Higher Learning Commission (NCA-HLC)*

*Northwest Commission on Colleges and Universities  
(NWCCU)*

*Southern Association of Colleges and Schools  
Commission on Colleges (SACS)*

*Western Association of Schools and Colleges –  
Accrediting Commission for Community and Junior  
Colleges (WASC-ACCJC)*

*Western Association of Schools and Colleges -  
Accrediting Commission for Senior Colleges and  
Universities (WASC-ACSCU)*

## Principles for Effective Assessment of Student Achievement

Federal law requires that a higher education institution undergoing accreditation provide evidence of “success with respect to student achievement in relation to the institution’s mission.” Both aspects of this requirement—the insistence upon achievement, and the tailoring to institutional mission—are critically important. The demonstration of quality is a fundamental responsibility of all colleges and universities, but both the kinds of quality and the methods used to measure it will differ depending on the mission of the institution.

More specifically, though the exact content of these criteria and the methods for measuring them will differ, all institutions should be expected to provide evidence of success in three domains:

1. Evidence of the student learning experience. Institutions should be able to define and evaluate *how* their students are learning: more specifically, institutions should be able to describe the kinds of experiences that they expect students to have inside and outside the classroom. Relevant evidence may pertain to targets for the kinds of reading and writing assignments that students should complete; levels of personal interaction with faculty members; residential and/or co-curricular components of the learning experience, and other learning experiences that the institution deems relevant to its mission.
2. Evaluation of student academic performance. Institutions should be able to define meaningful curricular goals, and they must have defensible standards for evaluating whether students are achieving those goals. Appropriate methods for the assessment of student work may include, among other approaches, meaningful and rigorous faculty evaluation and grading or external benchmarking.
3. Post-graduation outcomes. Institutions should be able to articulate how they prepare students consistently with their mission for successful careers, meaningful lives, and, where appropriate, further education. They should collect and provide data about whether they are meeting these goals. Relevant kinds of data may include completion rates, job placement rates, levels of post-graduation civic participation, kinds of jobs and vocations chosen, surveys pertaining to alumni satisfaction and success, and data on other post-graduation goals relevant to the institution’s mission.

The accreditation process needs to allow institutions flexibility with regard to the methods for measuring progress toward these goals. It is a mistake to conflate particular means for measuring goals with the achievement of those goals. Measures of all kinds will work best if they are integrated into the teaching and administration of colleges and universities, analyzed on a regular basis, and summarized in the accreditation process.

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# FROM DEPARTMENTAL TO DISCIPLINARY ASSESSMENT:

## Deepening Faculty Engagement

BY PAT HUTCHINGS

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*Pat Hutchings (hutchings@carnegiefoundation.org) is a senior associate with The Carnegie Foundation for the Advancement of Teaching, where she previously served as vice president and senior scholar. She has written and spoken widely on student outcomes assessment, integrative learning, the peer review of teaching, and the scholarship of teaching and learning. Her most recent book is The Scholarship of Teaching and Learning Reconsidered: Institutional Integration and Impact (2011), with co-authors Mary Taylor Huber and Anthony Ciccone. Prior to joining Carnegie, she was a senior staff member at the American Association for Higher Education. From 1978–1987 she was a faculty member and chair of the English department at Alverno College.*

In the late 1980s, as student outcomes assessment was first taking hold in higher education, I interviewed a number of faculty members who had been pulled into the movement's orbit. One still sticks with me: a professor of art history at a large research university who recounted the experience of having to sit down with her department colleagues—for the first time ever—to hash out their collective goals for majors. It was a difficult conversation, she told me, surfacing serious disagreements but eventually yielding a more shared vision of what students in the program should know and be able to do.

Clarifying goals is, admittedly, only the first step in the assessment process. Nevertheless, the experience recounted by that faculty member twenty-some years ago says a lot about the power of assessment at the departmental and disciplinary level to engage the professoriate in substantive ways.

That said, most of assessment's attention over the last two decades has been aimed at cross-cutting outcomes—critical and analytical thinking, problem solving, quantitative literacy, and communication—that are typically identified with general education. Just about everyone agrees that abilities like these are essential markers of higher learning; critical thinking typically tops the list of faculty priorities for student learning, regardless of field or institutional type. They're also the outcomes that have caught the attention of employers and policymakers (as well as test makers)—who are not, for the most part, asking how well students understand art history, sociology, or criminal justice (though they *are* asking about math and science preparation). And of course they are outcomes that overlap with those of the disciplines.

In short, assessment's focus on cross-cutting outcomes makes perfect sense, but it has also meant that the assessment of students' knowledge and abilities *within* particular fields, focused on what is *distinctive* to the field, has received less attention. And that's too bad.

It's too bad because we do, after all, value what our students know and can do in their major area of concentration and because students themselves typically care most about achievement in their chosen field of study. But it's also too bad because anchoring assessment more firmly in the disciplines may be a route to addressing its most vexing and enduring challenge: engaging faculty in ways that lead to real improvement in teaching and learning.

This is not a new argument (see for example Banta, 1993; Wright, 2005; and, most recently, Heiland and Rosenthal, whose volume on assessment in literary studies is reviewed by Mary Taylor Huber this issue), but it is one worth renewing. My purpose in what follows, then, is to review the current state of affairs in departmental and

disciplinary assessment, but especially to point to emerging developments that can help to deepen faculty engagement with questions about how and how well students achieve the learning we value within and across our diverse fields.

### TAKING STOCK

Even though disciplinary and departmental assessment has played second fiddle to the assessment of more cross-cutting outcomes, a recent survey of program-level assessment practices released by the National Institute for Learning Outcomes Assessment (Ewell, Paulson, & Kinzie, 2011) reveals that there has been significant action in this arena. Often the first on campus to seriously engage with assessment, and among the most active going forward, are fields with specialized accreditation, including teacher education, pharmacy, nursing, social work, business, and engineering (see Palomba & Banta, 2001).

But good examples are plentiful in other fields as well, with levels of activity rising as all programs and departments respond to regional accreditation requirements. Indeed, the NILOA survey report concludes that “there is more assessment activity ‘down and in’ [academic programs and departments] than may be apparent by looking at only institutional measures” (p. 9), and it points not only to accreditation but to the desire to improve as major drivers for such work.

An earlier (2009) NILOA survey found that locally designed approaches are more prevalent at the department and program level than in the assessment of cross-cutting, general education outcomes, which are more likely to use standardized, externally designed instruments and national surveys. The 2011 report fills in the details: 68 percent of programs use capstone assessments; more than half use performance assessments or final projects; and alumni surveys, comprehensive exams, and portfolios all come in at about 30 percent.

What’s also clear, although unsurprising, is that methods vary significantly from one field to another. For example, 84 percent of education departments report that all or most of their students take standardized examinations, while only 13 percent in the arts and humanities employ such instruments. Indeed, one reason to encourage greater attention to discipline-based assessment is because it’s likely to encourage further methodological creativity and invention, reflecting the fuller range of evidence and methods valued in different fields and raising the chances that what is learned through assessment will be taken seriously and acted upon by faculty.

There are other promising developments. The NILOA survey suggests that assessment is making a difference in ways that affect the experience of students, with many respondents saying that they use results “very much” or “quite a bit” for instructional improvement (67 percent), improving the curriculum (59 percent), and informing program planning (57 percent). And in contrast to provosts—who, on the 2009 NILOA survey emphasized the need for greater faculty involvement in assessment—

60 percent of program-level survey respondents indicate that “all or most of their faculty are already involved” (p. 11).

### THE CHARACTER OF FACULTY ENGAGEMENT

Since I am one of scores of people who have worried and written about the need for greater faculty engagement in assessment, this last finding got my attention. Perhaps the widespread perception of low faculty engagement is just plain wrong or at least outdated. Or perhaps, for whatever reasons, programs are over-reporting participation. In any case, NILOA’s findings are significant in suggesting the need for further thinking not only about the *proportion* of faculty engagement but about its *character and depth*.

A situation that appears to be common in one form or another in many institutions was captured by a campus leader I spoke with recently, who opined that departmental engagement can often translate to a kind of “checklist mentality” in which assessment means telling the provost’s office which two or three methods from a proposed menu of possibilities—a survey, portfolios, an ETS field test, and so on—the department will employ. With deadlines looming (“our accreditation self-study is due in four months!”), this kind of mentality is understandable, especially in a context where faculty expertise is limited and time even more so. In such circumstances it’s easy to get caught up in questions of lists, methods, and instruments—important matters that can sometimes prompt deeper deliberations about program goals and purposes.

But it is, after all, the deeper thinking about how and how well students acquire the field’s knowledge, practices, values, and habits of mind—and how to improve learning in all of those areas—that assessment (at its best) is after. Without such considerations, one might say that assessment is “departmental” but not necessarily “disciplinary”—that it is situated in the relevant administrative unit but may not entail significant deliberation about what it means to know the field deeply, why that matters, and how to ensure that all students in the program achieve its signature outcomes at high levels.

“One reason to encourage greater attention to discipline-based assessment is because it’s likely to encourage further methodological creativity and invention.”

Of course disproportionate (and hurried) attention to methods is just one of the impediments to faculty engagement. Few faculty have any explicit training in documenting or measuring student learning; other pressing agendas compete for time; such work is rarely rewarded in promotion and tenure; and on some campuses, even those seriously committed to teaching and learning, there's a sense that assessment adds no real value (see Hutchings, 2010) and may, even worse, take a divisive turn that erodes collegiality.

Additionally, some have proposed that assessment's focus on broad generic outcomes has worked against deeper kinds of faculty involvement. In the introduction to their edited collection about assessment in literary studies, Donna Heiland and Laura Rosenthal argue that one of the reasons English (and presumably other) departments have been less than fully engaged with assessment is that "the best known assessment efforts have targeted overall institutional performance and general-education outcomes rather than the concerns and outcomes of specific disciplines" (2011, p. 11).

On the one hand, this argument may seem counterintuitive, since these cross-cutting outcomes are so highly valued by faculty across fields. In this sense, critical thinking (for example) would seem to be an entry point for faculty to think about assessment in their own fields. Certainly it has served that purpose in many settings, spurred on, for example, by an initiative on "Engaging Departments" led by the Association of American Colleges and Universities.

On the other hand, critical thinking looks very different from one field to another, and it often employs different language as well. Consider, for example, Rosenthal's own account (in the University of Maryland teaching center newsletter, April & May 2011) of how assessment helped her design a better way to teach upper-level students to make arguments that are recognizable as literary criticism.

**Rosenthal's [account] illustrates what assessment can look like when it is not only located in the academic department but driven by and deeply engaged with the field's distinctive ways of thinking, acting, and valuing.**

The intellectual practices she wants English majors to develop are arguably a subset of the broad category of "critical thinking." But her story starts not there but with a careful analysis of how her students *actually* respond to literary works (that is, it starts with assessment). Building on that foundation, she develops a five-stage model to guide learners toward "what my discipline generally understands as criticism" (p. 10), moving from understanding the literal meaning of the text to more nuanced arguments about its structure and historical context.

The NILOA survey finds that programs are eager to have more examples of thoughtful assessment, and it's easy to see why Rosenthal's work would be especially useful. In contrast to many accounts of program-level approaches—which typically focus on methods for gathering data—Rosenthal's illustrates what assessment can look like when it is not only *located* in the academic department but driven by and deeply engaged with the field's distinctive ways of thinking, acting, and valuing. Enlarging the supply (and increasing the visibility) of such examples would help move assessment more fully into the kind of disciplinary territory in which faculty live and work.

### ENGAGEMENT BY DISCIPLINARY AND PROFESSIONAL SOCIETIES

The disciplinary and professional societies to which faculty belong can play a powerful role here, sending signals about what matters and what's worth doing. Historically, support and advocacy for the research role of the professoriate has held pride of place in virtually all of these organizations, but over the last two decades many of them have given greater emphasis to teaching and learning. In the process, in various ways and to varying degrees, the topic of assessment has also been taken up, as these organizations have created task forces on the topic, issued special reports, crafted guidelines for departments, made recommendations, collected case studies, and sponsored special initiatives and projects.

Their responses are not, of course, an even weave; how and how fully they have engaged with assessment depends on the history and culture of the field, how it thinks about itself in the educational landscape, and its signature habits of mind. For example, assessment has been a hard sell in the American Philosophical Association. According to Donna Engelmann, a faculty member at Alverno College who has been active in the organization, "there has been little official activity on the part of the APA in regard to assessment in philosophy."

And yet, she notes, there are signs of progress. An earlier and "explicitly hostile" statement on assessment was revised in 2008 in ways that reflect greater openness. And the APA and the American Association of Philosophy Teachers (a separate organization) now co-sponsor a seminar on teaching for graduate students in which assessment is an important strand.



In other fields, assessment may be seen as important but in ways that have not easily connected with the language and imperatives of the larger assessment movement. In physics, for instance, one finds a robust, long-standing tradition of education research and an impressive collection of research-based instruments and tools (many readers will know of the Force Concept Inventory) for assessing student understanding of key concepts in the field (see for instance [www.ncsu.edu/per/TestInfo.html](http://www.ncsu.edu/per/TestInfo.html) and [www.flaguide.org/resource/websites.php](http://www.flaguide.org/resource/websites.php)). And a search for “assessment” on the website of the American Physical Society (in June 2011) turned up all manner of resources—about assessment at the K-12 level, the impact of undergraduate research, research-based teaching, course design, and so forth—all of which speak to an interest in evidence about student learning.

But what one does not find are materials about the kind of program-level assessment of student learning outcomes that departments today are being called upon to conduct. In short, the field has a robust tradition of studying student learning, but that work has not been framed by its flagship scholarly society in ways that converge with the assessment movement.

As in philosophy, however, there are signs of movement. The APS will soon release guidelines for department review which—according to Noah Finkelstein, chair of the organization’s Committee on Education and a faculty member in the department of physics at the University of Colorado—will include attention to educational goals and “assessment metrics that attend to those learning goals” (email, June 8, 2011).

The work of the Mathematical Association of America (MAA) offers a different example, one that has engaged scores of departments. In a useful overview of his field’s response to assessment, Bernard Madison begins with the establishment in the late 1980s of a twelve-member subcommittee on assessment (he was its chair) of the Committee on the Undergraduate Program in Mathematics.

Charged with advising MAA members about how to respond to assessment, the subcommittee issued a first report in 1992 entitled *Heeding the Call for Change*. This was followed, in 1995, by a set of guidelines to assist departments in designing and implementing assessment strategies. The subcommittee also collected case studies of departmental assessment and published 72 of them in a 1999 volume.

Drawing, then, on a decade of work, the MAA secured funding from the National Science Foundation for a three-year project, Supporting Assessment in Undergraduate Mathematics (SAUM). Launched in 2002, SAUM held workshops for teams of faculty from 66 colleges and universities. Along the way, the project also shared its insights and findings with the wider field through panels at national and regional meetings, special forums at MAA

**[Physics] has a robust tradition of studying student learning, but that work has not been framed by its flagship scholarly society in ways that converge with the assessment movement.**

section meetings, and an expanded and updated set of case studies. The SAUM website includes a bibliography, a communication center for SAUM workshops, links to other relevant sites and resources, FAQs, case studies and papers published earlier, new case studies, an online assessment workshop, and a downloadable copy of the project’s culminating volume, *Supporting Assessment in Undergraduate Mathematics* (2006).

This is not to say that assessment has gone smoothly in mathematics or that everyone is deeply engaged. Madison points to a number of “tensions and tethers” that have hindered meaningful assessment efforts in undergraduate mathematics, and his analysis would resonate in most fields.

But the work goes on. In 2006, Madison drew on the activities of SAUM to edit a collection of ten longer case studies entitled *Assessment of Learning in College Mathematics*—the second volume in the Association for Institutional Research’s series on assessment in the disciplines. After SAUM ended in 2007, the MAA created a new Committee on Assessment in early 2008, which continues to disseminate information about assessment activities at regional and national meetings of the MAA.

A final “middle-ground” example (more extensive than what some fields have done, less than others) is my own field, English Studies, as represented by the Modern Language Association (MLA). Encompassing rhetoric and composition (where there’s a long history of assessment research and practice) as well as the study of literature, language, and culture (where there is not), the field was once described by a prominent department chair as “not a neat, discrete discipline but a congeries of subject matters” (quoted in the essay by Feal, Laurence, & Olsen, 2011, p. 62). Like philosophy and other humanities, it is one in which assessment was not likely to find a happy reception. And yet, like the MAA, the MLA has stepped into the breach.

In 1992 (fairly early on in the assessment movement, that is), the MLA’s Association of Departments of English (ADE)

**“The scholarly and professional societies have a critical role to play in promoting this kind of disciplinary view of assessment. . . . But their most important contribution, as well as their biggest challenge, lies in building disciplinary communities of inquiry around good questions about student learning.**

organized an ad hoc committee on assessment to consider “what advice the ADE can usefully offer to departments and chairs engaged with the problem of developing assessment initiatives” (1996, p. 2). As grist for its work, the committee surveyed department chairs, from whom they heard stories of “hope, challenge, and frustration” and, perhaps predictably, a sense from some that “nothing need be said yet at all about this still tender and conflicted topic” (p. 2).

Accordingly, the report was cautious and open-eyed about what could go wrong as departments struggled to document their students’ learning, but (full disclosure: I was a member of the task force) it also offered smart advice, still relevant today, about the most constructive ways to think about assessment. Among other advice was this caution: “Don’t blow it off.”

Subsequently, assessment has been a thread running through various ADE and MLA activities. It is, for instance, a theme in the 2003 *Report of the ADE Ad Hoc Committee on the English Major*. A paper prepared several years later as part of MLA’s participation in a Teagle Foundation initiative on the relationship between the undergraduate major and the goals of liberal education (2006–2008) includes as its fourth and final recommendation “the adoption of outcomes measurements” (although, in truth, the report is skimpy on this point). The Winter 2008 *ADE Bulletin* includes a special section on “Assessment Pro and Con.” (According to MLA officials, “a search on the category ‘assessment of student learning’ returns a list of 135 articles in the *ADE Bulletin* archive.”) And in a 2010 survey of department chairs, 86 percent reported that their unit had implemented

an assessment process, and 90 percent said that assessment had the potential to improve student learning in their department’s programs (developments reported in this paragraph are from the chapter by Feal, Laurence, & Olson in the Heiland & Rosenthal volume).

Recently, leaders in the field of literary study have come together to push for further progress. In their collection of essays enticingly entitled *Literary Study, Measurement, and the Sublime: Disciplinary Assessment*, Donna Heiland and Laura Rosenthal argue for a deeper level of engagement by colleagues in the fields of English and modern languages:

While most departments . . . are conducting assessment projects, and while many faculty members currently participate in those projects, *and* while many instructors have strong opinions about assessment, few of the questions raised by assessment have attracted the kind of sustained thought that we give to other aspects of professional life. (pp. 9–10)

The volume, developed with support from the Teagle Foundation (which has funded a good deal of discipline-based work on teaching, learning, and assessment) is not an official publication of the MLA, but it features big names in the field—including recent past president Gerald Graff—and builds on statements and materials generated under the organization’s auspices. Predictably, the essays do not speak in a single voice, ranging from alarm to energetic advocacy, from theory to concrete departmental practice. But what they share is a view that assessment should be firmly grounded in the discipline and shaped by the knowledge practices and values that define it, its place in the academic and cultural landscape, and a sharper sense of the learning goals that can make students’ experience with literature matter more—to them, to higher education, and to society.

Clearly, the scholarly and professional societies have a critical role to play in promoting this kind of disciplinary view of assessment. Indeed, several writers in the Heiland and Rosenthal volume (and also respondents to the NILOA survey of program-level practices) urge these organizations to step up to the assessment plate. Their efforts can be especially useful in navigating the movement’s politics—the place where many of them start—by establishing committees, issuing statements, and the like. But their most important contribution, as well as their biggest challenge, lies in building disciplinary communities of inquiry around good questions about student learning.

### **BUILDING BRIDGES TO THE SCHOLARSHIP OF TEACHING AND LEARNING**

One of the most vexing realities in higher education is the existence of silos that keep good ideas and practices from



traveling across the academic landscape in useful ways. Assessment has certainly been plagued by its tendency to operate as “a train on its own track” (to invoke a much-quoted image employed by Peter Ewell in assessment’s early days), disconnected from other work, functions, and initiatives to which it should, in theory, be intimately related and which would open opportunities for deeper faculty engagement and greater impact.

Most campuses today are aware of this problem and have tried, with varying degrees of success, to connect assessment more firmly to curriculum reform and pedagogical innovation. But I want to urge an additional point of connection, as well—to the scholarship of teaching and learning. In this work, faculty bring their skills and values *as scholars in their field* to their work as educators, posing questions about their students’ learning; gathering and analyzing evidence about those questions; making improvements based on what they discover; tracking the results; and sharing the insights that emerge in ways that can be reviewed, critiqued, and built on by others.

As this definition suggests, the scholarship of teaching and learning and student outcomes assessment inhabit some common ground. Both ask questions about what, how, and how well students are learning. Both bring a systematic, evidence-based approach to questions of educational quality and improvement. And both go public about the learning that happens (or does not) in college and university classrooms. In these ways, the scholarship of teaching and learning and student outcomes assessment are, if you will, members of the same extended family, both aimed at building communities of inquiry and improvement.

But the two movements have mostly proceeded on separate tracks. From its early days in higher education, assessment was “consciously separated from what went on in the classroom,” Peter Ewell explains (2009, p. 19), while the *sine qua non* of the scholarship of teaching and learning is faculty inquiry into the learning of their own

students. In turn, the emerging scholarship of teaching and learning community sought to distance *its* approach and language from those of assessment, concerned that getting too cozy with an institutional or administrative agenda could put at risk the grass-roots, intellectual impulse behind the movement. Indeed, many faculty who have taken up the scholarship of teaching and learning have looked with mixed feelings, and even alarm, at signs of buy-in from the provost or president, fearing that such work could become yet another requirement or be co-opted to advance someone else’s agenda.

Today, however, there are signs of convergence. In a 2009 survey of campuses participating in the Carnegie Academy for the Scholarship of Teaching and Learning (the CASTL program, which ran from 1998–2009), many respondents noted connections with assessment. Asked about an array of “wider institutional agendas” to which the scholarship of teaching and learning had contributed, for instance, they ranked assessment fourth.

And attitudes toward assessment have been affected as well. Because of the climate created by the scholarship of teaching and learning, one campus reported, “assessment is no longer a 4-letter word”; faculty have begun to understand “that it can be done ‘from the inside’ according to their curiosities and remaining within their control.” Another noted, “Assessment conversations have connected to the scholarship of teaching and learning to generate more meaningful assessments.” A third reported looking for ways to “build bridges” between the two movements. It seems, in short, that the principles and practices of the scholarship of teaching and learning may have something to offer the work of assessment, and this is particularly so around the challenges of faculty engagement (see Hutchings, Huber, & Ciccone, 2011).

For starters, while a focus on the academic department emerged as a kind of second-level issue in assessment (with attention to cross-cutting outcomes in the first position), the scholarship of teaching and learning has been framed from the beginning as disciplinary work. CASTL, for instance, began its program for campuses by offering up a “sacrificial definition” which pointed explicitly to the importance of “methods appropriate to disciplinary epistemologies” (Cambridge, 2004, p. 2). In this same spirit, CASTL’s fellowship program for individual scholars was organized in disciplinary cohorts, so historians could work with other historians, chemists with chemists, and so forth (though the final cohort was selected around the cross-disciplinary theme of integrative learning).

Along the way, Mary Taylor Huber and Sherwyn Morreale edited a volume on *Disciplinary Styles in the Scholarship of Teaching and Learning* (2002), exploring the quite different contexts for such work in a broad array of fields. More recently, disciplinary communities have begun to organize themselves as special-interest groups (in history, sociology,

**“The scholarship of teaching and learning and student outcomes assessment are, if you will, members of the same extended family, both aimed at building communities of inquiry and improvement.”**

geography, biology, and the humanities) under the umbrella of the International Society for the Scholarship of Teaching and Learning.

The point of this disciplinary orientation is not to deny the value of working across disciplines; some of the most powerful experiences in the CASTL program, for instance, came as a result of connections and borrowing across fields. The point is that the scholarship of teaching and learning is *practitioner* research; as such, it focuses not on learning in general or even learning across the campus (how well do this institution's students solve problems or write?) but asks (as one CASTL participant from English did) "what does it mean for me to teach *this* text with *this* approach to *this* population of students at *this* time in *this* classroom?" (Salvatori, 2002, p. 298).

This is a formulation that assessment has largely eschewed, and in so doing it has missed the opportunity to tap into a tremendous well of faculty energy. Building bridges with the scholarship of teaching and learning might help move assessment down into the discipline and the classroom, where real change happens.

The scholarship of teaching and learning has also cultivated a wide variety of methods, reflecting the range of approaches characteristic of different fields. As Huber and Morreale point out in the introduction to their volume on disciplinary styles, scholars of teaching and learning bring their fields' "intellectual history, agreements, disputes about subject matter and methods" to the scholarship of teaching and learning (Huber and Morreale, 2002, p. 2). Thus, while there are interesting instances of methodological borrowing (a microbiologist employing think-alouds that she learned about from a historian, for instance), scholars of teaching and learning have mostly relied on methods from their own fields.

In this spirit, we see English faculty investigating their students' learning through the use of "close reading," management professors using focus groups, and psychologists looking for ways to establish comparison groups. In fairness, much of the literature on assessment and many of its most exciting developments reinforce this notion of disciplinary styles. But in moving from departmental to more deeply disciplinary work, greater emphasis on the field's signature methods and conceptions of evidence and argument might well catalyze a next stage of work.

Finally, assessment could take a page from what might be called the scholarship of teaching and learning's "theory of action." Assessment proceeds on the assumption that data will prompt people to make changes: You assess, you get results, and you make improvements based on the results. As it turns out, the process is balkier than this formulation suggests. As Charles Blaich and Trudy Banta argue in a January/February 2011 *Change* article, the biggest challenge facing assessment is not getting good data but prompting action.

In fairness, the scholarship of teaching and learning has also placed significant hopes on the power of data and evidence to drive improvement. And it has faced its own challenges in this regard; translating highly contextualized findings from a scholarship of teaching and learning project into terms that can be used by those in other settings isn't easy. But the theory of action that distinguishes such work from assessment is best captured in its invocation of and identity as "scholarship."

That is, the Project (with a capital P) of the scholarship of teaching and learning is not simply aimed at local improvement. Rather, the faculty engaged in this work see themselves as part of a larger knowledge-building enterprise, studying and adding to what is understood about how students learn history or sociology or (for that matter) the integrative skills to think across fields.

This aspiration is part of what has given the work its appeal: It's local but it's not *only* local. As such, it must be captured in ways that others can review, draw from, and build on. This is what we mean when we call something scholarship. And in the culture of academic life, the scholarship of teaching and learning's larger, knowledge-building aspiration has been an engine for faculty engagement that assessment might well tap into.

### MODEST STEPS TOWARD SHARED GOALS

I'm not arguing that assessment should take on the mantle of the scholarship of teaching and learning or that the scholarship of teaching and learning should become "the new assessment." There are good reasons that the two movements have kept their separate identities, and they should continue to do so. Blurring the lines between them too much could put at risk the intellectual impulse that lies behind the scholarship of teaching and learning and might not serve assessment's imperatives well either. But thinking of the two movements as not-so-distant cousins can open the door to useful exchange and cross-fertilization.

Imagine, for instance, a campus center for teaching that brings the two groups together, or an occasional lunch hosted by the provost's office. What questions about students' learning are the two communities investigating? Are there any overlaps? What projects does each have underway or in mind for the future, and how might they collaborate or inform one another's efforts?

Imagine the assessment office commissioning groups of faculty to undertake scholarship of teaching and learning projects that more deeply explore (within their respective academic programs) findings from, say, the National Survey of Student Engagement or the Collegiate Learning Assessment. Or imagine those working on assessment documenting their efforts in ways that could be peer reviewed and put in a dossier for promotion and tenure, under the heading of the scholarship of teaching and learning.

Although my focus in this piece is on the benefits that might come to assessment through the scholarship of teaching and learning, both movements would benefit from a bi-directional exchange. Drawing on the principles of the scholarship of teaching and learning can help assessment solve the movement's most enduring challenge: engaging faculty and making a difference in the classroom.

Meanwhile, a closer connection with assessment may help embed the scholarship of teaching and learning more deeply in institutional life, raising its chances for long-term viability. But not only do the two movements stand to gain from a closer connection—higher education needs their combined strengths in making student learning a site for serious faculty inquiry, meaning making, and improvement. ☐

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- National Institute for Learning Outcomes Assessment. For several papers cited in this article and many more resources and links, see: <http://www.learningoutcomeassessment.org/> Within the NILOA site, also note links related to assessment resources by field: [www.learningoutcomeassessment.org/CollegesUniversityPrograms.html#Art](http://www.learningoutcomeassessment.org/CollegesUniversityPrograms.html#Art)

# LEVELS OF ASSESSMENT

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BY ROSS MILLER AND ANDREA LESKES

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# Introduction

**ASSESSMENT CAN ANSWER IMPORTANT QUESTIONS**, questions about the learning of individual students, the effectiveness of a single course or program, or even the entire institution. Precision in formulating the questions of interest helps to pinpoint the level of analysis, determine the appropriate methods, and guide data sampling, aggregation, interpretation, and use.

This short paper describes five levels of complexity in assessment at the college level. It was written to help clarify the all-too-common “assessment morass,” where questions are left unstated, levels of analysis conflated, and evidence inappropriately gathered.

Our basic assumption is that evidence of student learning should be used for multiple levels of assessment, and we limit our comments here to such evidence. Campuses do, of course, also gather and use information less directly linked to student learning (e.g., related to teaching loads or facilities) and factor it into complex analyses of the learning environment, especially at the program and institutional levels.

The best evidence of learning comes from direct observation of student work rather than from an input inventory (e.g., list of courses completed) or summary of self reports. The student work observed can be either required for a course (embedded) or requested in another context such as a testing situation. Course-embedded assignments provide the *most valid evidence for all levels of analysis* because they are closely aligned with faculty expectations and with the teaching-learning process. The ways of sampling, aggregating, and grouping the evidence for analysis (to make collection more manageable) will depend on the original questions posed. The questions will also determine how the data are interpreted to produce action. Internally, faculty members and staff accomplish aggregation by describing standards, translating them into consistent scoring scales, and anonymously applying the resulting rubrics to the evidence at hand. Such a process does not assign a grade to an individual student but rather attempts to understand better the learning process and how to improve its effectiveness. External assessment tools (e.g., commercial tests) aggregate results by cohort or institutions.

*The Art and Science of Assessing General Education Outcomes* (Leskes and Wright 2005) and *General Education: A Self-Study Guide for Review and Assessment* (Leskes and Miller 2005), both recently released by the Association of American Colleges and Universities (AAC&U) as part of its Greater Expectations initiative, complement this short paper. Additional resources can be found on the AAC&U Web site ([www.aacu.org](http://www.aacu.org)) and on pages 13 and 14. ■



# Level 1. Assessing individual student learning within courses

FORMATIVE AND SUMMATIVE QUESTIONS would probe what individual students are learning and how well they are meeting the goals of a course (whether related to disciplinary content or to using transferable intellectual and practical skills).

*Typical assessment questions at this level:*

- Is the student learning as expected?
- Has the student's work improved over the semester?
- How well has the student achieved the learning outcomes set for the course?
- What are the student's strengths and weaknesses?
- How well is the instructor communicating with and engaging the student?

*Sources of evidence:* All student work embedded in the course (for example quizzes and exams, papers, projects, presentations, and portfolios) can provide evidence. This is the level of assessment at which instructor-assigned grades typically provide feedback to students about their progress and success.

*Aggregation of data:* Aggregation is often sequential as evidence is collected for each student during the course to track individual learning and improvement. Typically a final course grade holistically sums up a semester of learning.

*Data uses:*

- as formative and/or summative feedback to students so they can understand their progress in the course and ways to improve learning
- for feedback to the course instructor on how well he or she is communicating with and motivating each student (can shape subsequent lessons and assignments within the course)

**Responsibilities:** Individual students are responsible for the effort they exert, the quality of their work, and meeting the instructor's expectations. They are more likely to fulfill these responsibilities when consistently informed of learning goals and academic norms. By teaching students how to conduct self- and peer-assessments, the professor can improve student understanding of the learning process.

Individual instructors are responsible for setting expectations and making them transparent to students. As educators, their professional responsibility extends to the quality of their own teaching and to monitoring how well the pedagogical methods they employ assist students in learning. While the holistic assignment of grades (an A, B, or F) is a way to evaluate student work, such grades represent averaged estimates of overall quality and communicate little to students about their strengths, weaknesses, or ways to improve. A better way to aid learning is through analytical assessments, which can be as simple as written comments on student papers or as structured as the use of a detailed rubric for an assignment; such analysis can reveal precisely which concepts a student finds challenging. ■

### ASSESSING INDIVIDUAL STUDENT LEARNING IN A COURSE

Anne Phillips, professor of English at **Kansas State University**, prepares a detailed rubric so students understand the elements of an "A" paper. She defines what she means by

- an interesting thesis (results from thought and judgment)
- useful organization (provides a plan for proving the thesis)
- rich detail (includes colorful examples)
- helpful paragraphing (introductory paragraph engages the reader)
- polished mechanics (smoothly connects sentences)

Her students can use the rubric to self- or peer-assess their writing as well as to strive toward improvement.

## Level 2. Assessing individual student learning across courses

FORMATIVE AND SUMMATIVE QUESTIONS would probe what and how well individual students are learning during the progression of a particular program (e.g., the major, general education) or over their years at college.

### *Typical assessment questions at this level:*

- Has the student's work improved and/or met standards during the program or since admission to college?
- How well has the student achieved the disciplinary outcomes of the major program?
- How well has the student achieved the general learning outcomes of the institution across four years?

### *Sources of evidence:*

- embedded work in individual courses, for example quizzes and exams, papers, projects, presentations
- portfolios that assemble samples of the student's work in a number of courses
- capstone experiences or projects
- student self-reflection on the learning process
- relevant externally developed exams (e.g., for licensure)

Typical grades can provide some holistic feedback to the student but are difficult to interpret across courses except at very broad levels (such as a GPA) or to disaggregate into learning outcomes (e.g., how the student has learned to communicate orally).

**Aggregation of data:** Given appropriate formats and data, students can aggregate evidence of their own learning (e.g., of a particular skill such as writing) across courses, programs, or their entire time in college to track improvement. Traditionally, departments aggregate an individual's grades across courses when they require, for example, that their majors must maintain a minimum GPA of 2.5 in disciplinary courses.

**Data uses:**

- as formative and/or summative feedback to students so they can understand their progress over time and ways to improve learning
- for feedback to program faculty on how well individual students are achieving the goals and outcomes

**Responsibilities:** Individual students are responsible for the quality of their work and for gathering evidence of their learning. They are also responsible for integrating their learning over time and across courses. *Collectively* faculty members share the responsibility for clarifying goals and outcomes and providing rubrics for student self assessment. *Individually* faculty members are responsible for objectively assessing the assembled work samples or the test results and providing both holistic and analytic feedback to the student. ■

**ASSESSING INDIVIDUAL STUDENT LEARNING ACROSS COURSES**

The teacher education program at **Alverno College** asks students to demonstrate their readiness for student teaching by showing how well they perform in certain ability areas (e.g., conceptualization, communication, integration). Using common frameworks and clear expectations, students create portfolios that include lesson plans, a critique of a videotaped lesson, and self assessments. An educational professional from the local P-12 system critiques the portfolio as do department faculty members.

## Level 3. Assessing courses

**FORMATIVE OR SUMMATIVE QUESTIONS** address the achievements of an entire class or the effectiveness of individual or multiple-section courses.

*Typical assessment questions at this level:*

- How well is the class collectively achieving the course’s content outcomes and objectives (at any one point, at the end)? How well is the class collectively achieving general or transferable learning outcomes and objectives?
- Are the assignments helping students achieve the expected level of knowledge or skills?
- How well are students prepared for the following courses in the sequence?
- Is the course level appropriately targeted for the ability(ies) of the students when they begin?
- With what degree of consistency do different sections of a course achieve similar outcomes?
- How well is the course fulfilling its purpose in a larger curriculum?

*Sources of evidence:*

- embedded assignments of students in the course (papers, exams, projects, journals, portfolios)
- externally or commercially developed tests, as long as they are well aligned with the teaching and learning of the course
- course portfolios constructed by the instructor that include syllabi, expectations, and examples of student work
- for multi-section courses, common assignments that provide evidence across sections

At the course level, traditional holistic student grades are unlikely to provide sufficiently detailed insights to answer the questions unless tightly tied to explicit analytical standards and scoring rubrics.

***Aggregation of data:***

- *To assess individual courses:* Sampling the work of all students in a course can reveal how well the course content and assignments are helping students achieve the expected outcomes.
- *To assess multi-section courses:* Common assignments across sections (or common requirements such as a student or course portfolio) can be sampled, averaged, compared, discussed, or otherwise reviewed by the faculty involved and/or by departments or committees to ensure consistency across sections.
- *To assess both individual courses and multi-section courses:* Student portfolios and end-of-course reflections can provide evidence of both cognitive and affective learning outcomes aggregated at the level of the individual student.

***Data uses:***

- for formative feedback so instructors can improve learning
- for summative feedback to inform planning for the future by an instructor or a course committee
- to support cross-sectional analysis of how consistently multi-section courses are achieving important learning outcomes or the purposes of the course in a sequence

***Responsibilities:*** Instructors and committees are responsible for setting expectations for the course, establishing common standards for multi-section courses, understanding how the course fits into a coherent pathway of learning, and using analysis of the evidence to improve teaching and course design. ■

### USING STUDENT LEARNING TO ASSESS A COURSE

At **Binghamton University**, for a course to be included in a general education category the instructor must agree to certain guidelines established by the faculty senate. To assess the course, the oversight committee asks the faculty member for a course portfolio that includes examples of student work representing high quality, average, and unacceptable achievement. Guided by approved criteria, an assessment team reviews the course portfolio in relation to the desired goals for student learning. The data gathered are used to determine how well courses satisfy the learning outcomes for each category; they can be further aggregated to examine the category as a whole.

## Level 4. Assessing programs

**SOME FORMATIVE BUT MOSTLY SUMMATIVE QUESTIONS** guide assessment of programs (e.g., general education or a major).

*Typical assessment questions at this level:*

- Do the program's courses, individually and collectively, contribute to its outcomes as planned?
- How well does the program fulfill its purposes in the entire curriculum?
- How well do the program's sub-categories (e.g., distributive requirements in general education) contribute to the overall purposes?
- Does the program's design resonate with its expected outcomes?
- Are the courses organized in a coherent manner to allow for cumulative learning?
- Does the program advance institution-wide goals as planned?

**Sources of evidence:** Direct evidence of student learning from many sources can contribute to program-level assessment: assignments from individual courses, student portfolios built over the program's duration, entering student tests or assignments, capstone projects, results of common assignments, commercial tests. Selected assignments from other programs can be re-scored (given a "second reading") by program faculty (e.g., to assess the general education program's success in developing such institution-wide goals as communication, quantitative literacy, critical thinking, or ethical responsibility). Given the number of potential data sources and the amount of evidence that could be amassed, careful planning is needed to identify the important points for sampling and analysis. Program assessment may likely involve several sources of evidence gathered at the point of entry, a midpoint, and at the end of the program. End point data is particularly valuable as a summative indicator of how well the program, taken as a whole, is achieving its goals. Individual student grades are not informative at this level.

**Aggregation of data:** Course-level assessments of the courses in a program can be analyzed individually or collectively to reveal whether program goals are being achieved; sampling might be prudent in a large program. Information about the sub-categories in a program (e.g., distribution areas) can be aggregated to the program level (e.g., general education). Sampling of student portfolios considered excellent, average, and sub-par can vividly portray growth in student performance from beginning to the end of a program. Disaggregated data can reveal how sub-groups of students are succeeding in the program. Some external, commercially available assessments can be compared to norms (e.g., the Major Field Tests from ETS).

**Data uses:**

- to confirm the purpose of the program (e.g., its place in the entire curriculum or connection to mission)
- to check alignment of program design with program outcomes
- to discern how well the program, from its beginning to end, fosters cumulative learning of the desired outcomes
- to discover how well the program as a whole enables students to achieve end-point levels of competence for all program outcomes
- to identify superfluous and/or missing curricular and co-curricular elements in the program

**Responsibilities:** Responsibility largely rests on the program faculty, *collectively* and *individually*. Collectively, the faculty assumes responsibility for the entire program achieving its—and relevant institution-wide—goals and outcomes. Individual instructors are responsible for advancing the program and institutional goals embedded in their courses. Faculty members cooperate in establishing program “standards” and scoring rubrics for the quality of work expected. ■

### USING STUDENT LEARNING TO ASSESS A PROGRAM

At **Buffalo State University**, the general education program is built on student learning in twelve areas: nine discipline- and three skill-based. A complete cycle of assessment occurs over three years with four areas assessed each year to provide the program-level picture. Evidence gathered in individual general education courses is compared to detailed statements of learning outcomes and objectives for each area. The faculty members from the relevant departments design the type of work product expected, a range which includes objective exams, common embedded exam questions, assigned papers, and portfolios. The same professors also pick the most appropriate sampling method and set assessment standards. Evidence aggregated by skill or disciplinary area is then analyzed and discussed by the departments, leading to changes in the program when necessary.



## Level 5. Assessing the institution

**INSTITUTION-LEVEL ASSESSMENT** can be undertaken for internal improvement or to meet external accountability demands. Results of the former can often also serve the latter purpose.

*Typical assessment questions at this level:*

- What do the institution's educational programs add up to in terms of student learning?
- How well are the institution's goals and outcomes for student learning being achieved?
- How much have our students learned over their college years?
- How well does the institution educate students for the complexities of the twenty-first century?
- What evidence is there that the institution is fulfilling its educational mission?
- How can institutional effectiveness be demonstrated authentically to external stakeholders?

*Sources of evidence:* A significant body of evidence from multiple sources will be required to answer institution-level questions. Documentation of how well students are meeting institution-wide goals and outcomes requires a clear statement of these learning expectations. The picture of student learning will be based primarily on summarized data from program assessments, supplemented by results from appropriate exams (such as those taken for graduate or professional school admissions, licensure, or certification). Sampling student work, both at the entry- and graduation-levels, can serve to answer value-added assessment questions. Some selected course-level assessments—particularly from common experience courses such as a required core—could contribute to the institution-wide picture. Indirect measures of student learning (National Study of Student Engagement [NSSE], Cooperative Institutional Research Program [CIRP], etc.) may also be informative at this level but should be considered as supplementary to the direct measures.

**Aggregation of data:** Much of the data will already have been aggregated when analyzed for institutional-level assessment: aggregated by courses, by programs, or by student cohort. For example, sampled, aggregated, and summarized student achievement of the desired learning outcomes in a freshman general education course could be compared to sampled, aggregated, and summarized achievement in a senior capstone. Or an analysis of the cohort completing the Collegiate Learning Assessment instrument could reveal the level of critical thinking in the graduating class. Constructing both narrative and quantitative summaries of the “stories” from programs will shape the broad picture of teaching and learning at the institution. Disaggregated data can reveal how well sub-groups of students are succeeding.

**Data uses:**

- to reveal what students know and can do when they graduate in order to guide the design of the institution’s undergraduate program
- to understand the value added by an institution’s undergraduate program
- to discover the interactions among various programs (e.g., general education and the majors), especially in how they help students achieve institution-wide learning goals
- to guide and support decisions about resource allocation, faculty hiring, and professional development
- to demonstrate to external stakeholders the institution’s effectiveness in educating students

**Responsibilities:** The responsibility for institution-level assessment rests with administrators working in close collaboration with the faculty, student affairs professionals, and other campus staff members. Collaborative groups would design an ongoing comprehensive program of institutional assessment, use data to improve learning, keep student success a top priority, ensure linkages to strategic planning and resource allocation, and communicate with external groups. ■

### USING STUDENT LEARNING TO ASSESS AN INSTITUTION

**Truman State University** uses a variety of instruments—some developed internally and others externally—for comprehensive institution-level assessment. Direct measures of performance include a portfolio compiled by seniors, the nationally normed Academic Profile test for juniors, writing samples from a writing-across-the-university program, senior capstones, and standardized senior tests in the major (e.g., GRE and GMAT). This direct evidence is complemented by indirect measures (such as CIRP for freshmen, NSSE for freshmen and seniors, and alumni surveys). In addition to contributing to the institutional profile, some results are made available by discipline or division.

## References

- Leskes, Andrea, and Ross Miller. 2005. *General education: A self-study guide for review and assessment*. Washington, DC: Association of American Colleges and Universities.
- Leskes, Andrea, and Barbara D. Wright. 2005. *The art and science of assessing general education outcomes*. Washington, DC: Association of American Colleges and Universities.

## Web Resources

### On individual student-level assessment

#### *Individual student learning within courses*

[depts.alverno.edu/saal/essentials.html](http://depts.alverno.edu/saal/essentials.html)

Gateway to information about Alverno College's rich assessment practices

[ustudies.semo.edu/oralcom/holistic.htm](http://ustudies.semo.edu/oralcom/holistic.htm)

An oral presentation holistic scoring rubric from Southeast Missouri State University

[www.flaguide.org](http://www.flaguide.org)

Gateway to Field-tested Learning Assessment Guide (FLAG) and multiple assessment resources in science, mathematics, engineering, and technology

[www.k-state.edu/assessment/Learning/APaper.pdf](http://www.k-state.edu/assessment/Learning/APaper.pdf)

Five Characteristics of an A Paper—a scoring guide for writing from Kansas State University

[www.uas.alaska.edu/humanities/documents/j-sp-comp-assess.pdf](http://www.uas.alaska.edu/humanities/documents/j-sp-comp-assess.pdf)

Eight public speaking competencies and criteria for assessment from the University of Alaska Southeast

#### *Individual student learning across courses*

[kings.edu/academics/caprogram.htm](http://kings.edu/academics/caprogram.htm)

King's College assessment information—especially the sections on the “sophomore-junior diagnostic project” and the “senior integrated assessment”

[www.wvsctc.edu/InstitutionalEffectiveness/Self-Study%20Attachments.pdf](http://www.wvsctc.edu/InstitutionalEffectiveness/Self-Study%20Attachments.pdf)

See page 115 of West Virginia State Community and Technical College's self-study for a student portfolio assessment rubric

### On course-level assessment

[provost.binghamton.edu/policy.html](http://provost.binghamton.edu/policy.html)

Click on the link to “Assessment of General Education at Binghamton University: Program and Guidelines” for course assessment guidelines

[www.bgsu.edu/offices/provost/academicprograms/genedprogram/Embedded%20assessment.htm](http://www.bgsu.edu/offices/provost/academicprograms/genedprogram/Embedded%20assessment.htm)

Course-level assessment at Bowling Green State University using course-embedded assessment to gather data

**On program-level assessment**

[web.bsu.edu/IRAA/AA/WB/contents.htm](http://web.bsu.edu/IRAA/AA/WB/contents.htm)

An assessment workbook from Ball State University

[www.buffalostate.edu/offices/assessment/gened.htm](http://www.buffalostate.edu/offices/assessment/gened.htm)

General education program assessment at Buffalo State University. Also major program assessment at [www.buffalostate.edu/offices/assessment/majorprogram.htm](http://www.buffalostate.edu/offices/assessment/majorprogram.htm)

[www.calstatela.edu/academic/aa/ugs/geassess/geplan.htm](http://www.calstatela.edu/academic/aa/ugs/geassess/geplan.htm)

Assessment plan for general education, California State University, Los Angeles

[www.ets.org/portal/site/ets/menuitem.htm](http://www.ets.org/portal/site/ets/menuitem.htm)

ETS link to standardized tests, some appropriate for general education—see especially MAPP

[www.sinclair.edu/about/gened/reports/assessment/index.cfm](http://www.sinclair.edu/about/gened/reports/assessment/index.cfm)

Assessment of General Education at Sinclair Community College

**On institution-level assessment**

[assessment.truman.edu/components/index.htm](http://assessment.truman.edu/components/index.htm)

Truman State University, a leader in assessment, describes the components of a comprehensive assessment program

[assessment.umflint.edu/GeneralEducation/](http://assessment.umflint.edu/GeneralEducation/)

Documents from University of Michigan, Flint clarify that general education goals are developed throughout a student's time at the university, not only during study in the general education program

**On multiple levels of assessment**

[depts.alverno.edu/ere/index.html](http://depts.alverno.edu/ere/index.html)

Multiple links to Alverno College's well-developed systems of assessment

[www.ets.org](http://www.ets.org)

Select "Resources for Higher Education"

[www.stanford.edu/group/ncpi/unspeified/toolkits.shtml](http://www.stanford.edu/group/ncpi/unspeified/toolkits.shtml)

National Center for Postsecondary Improvement at Stanford University assessment toolkits (Improving Student Assessment, Engagement in Assessment, and State Government and Regional Accreditation Association Policies for Assessment of Student Learning: Tools for Policymakers and Administrators, among others)

[www.winthrop.edu/acad\\_aff/GenEd/NewGenEdProgram.htm](http://www.winthrop.edu/acad_aff/GenEd/NewGenEdProgram.htm)

Winthrop University document linked to detailed descriptions of outcomes and assessments

Note: All Web addresses current as of publication date.

## Print Resources

Gaff, Jerry G., James L. Ratcliff, et al. 1997. *Handbook of the undergraduate curriculum*.

San Francisco: Jossey-Bass.

In particular Part Five: Administration and assessment of the curriculum

Maki, Peggy L. 2004. *Assessing for learning: Building a sustainable commitment across the institution*. Sterling, VA: Stylus.

Primarily institution-level and program-level assessment

Middle States Commission on Higher Education. 2003. *Student learning assessment: Options and resources*. Philadelphia: Middle States Commission on Higher Education.

## About the Authors

**Ross Miller** joined the Association of American Colleges and Universities (AAC&U) in 1999, as director of programs for the Office of Education and Quality Initiatives, to assist in the planning and implementation of the Greater Expectations initiative. He is also assistant director of the AAC&U Institute on General Education.

Miller holds a BM and MM in trumpet performance from the University of Michigan and an EdD in music education from the University of Illinois. During his thirteen years at Nazareth College (Rochester, New York), he taught both undergraduate and graduate music education students while also serving as director of the graduate program. In an assignment as Nazareth's assessment coordinator, Miller was responsible for assessment of the college's general education program. He has served as a question writer in the arts for the National Assessment of Educational Progress and worked on a team developing a high school outcomes test in the arts for the New York State Education Department.

**Andrea Leskes**, vice president for education and quality initiatives at AAC&U since 1999, led the Greater Expectations initiative on the aims and best practices of undergraduate education for the twenty-first century. The principal author of *Greater Expectations: A New Vision for Learning as a Nation Goes to College*, Leskes also directs AAC&U's annual Institute on General Education, writes regularly for the association's quarterly journals, and consults with campuses on curricular reform.

Leskes holds a PhD in cell biology from the Rockefeller University and an MA in French from the University of Massachusetts at Amherst. She formerly served as vice president for academic affairs and professor of comparative literature at the American University of Paris, vice provost for undergraduate education at Northeastern University, associate dean at Brandeis University, and assistant dean at Dartmouth College. ■



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## Beyond Compliance: Making Assessment Matter

by George D. Kuh, Stanley O. Ikenberry, Natasha A. Jankowski, Timothy Reese Cain, Peter T. Ewell, Pat Hutchings and Jillian Kinzie

Faculty members have always evaluated their students' performance, but this essential responsibility is usually a private undertaking. That is, faculty members decide what students in their respective courses should know and be able to do, then make judgments about whether each student has acquired the requisite knowledge and skills.

About three decades ago, however, groups of educators began to *work together* to identify desired learning outcomes and design assessment approaches to gather evidence of the extent to which students had mastered those outcomes.

What has happened since?

A veritable explosion has occurred, both in the number of institutions publicly declaring what all undergraduates should know and be able to do when they graduate and in the number of approaches—many produced outside the academy by for-profit entities (Borden and Kernel, 2013)—available to gather evidence about the attainment of learning outcomes. A variety of forces were at play over those 30 years, but the elevated expectations and demands of regional and specialized accreditors have been the chief drivers of these dramatic increases (Kuh, Jankowski, Ikenberry, & Kinzie, 2014).

Another more recent development has been a spike in the use of rubrics and other approaches to evaluate “authentic student work”—represented by, for example, written products; student performance in music, art, or dance; demonstrations in science and engineering; and samples of student work assembled in portfolios. To a non-trivial degree, many of these efforts came out of the Valid Assessment of Learning in Undergraduate Education (VALUE) project sponsored by the Association of American Colleges and Universities (AAC&U), as well as initiatives sponsored by disciplinary affinity groups and institutional membership organizations. Thus, the collection of tools and approaches developed outside of academe has now been enriched by approaches that are closer to the action of teaching and learning and more authentic.

Despite all this activity, the studies we have conducted at the National Institute for Learning Outcomes Assessment (NILOA) over the past seven years suggest that assessment has had an embarrassingly modest impact on student accomplishment. The *process* of assessment has taken precedence over the *use* of its findings to improve student success and educational effectiveness.

### In Short

- Mired in a culture of compliance, student learning outcomes assessment has had an embarrassingly modest impact on student and institutional performance.
- Five trends will make evidence of student accomplishment increasingly indispensable: a harsher economic environment, technology-enhanced platforms, an expanded role for multiple providers and certifiers of learning, the emergence of more comprehensive and transparent credentialing frameworks, and students' increasing responsibility for maintaining a cumulative record of their postsecondary knowledge and proficiencies.
- To be consequential, assessment information needs to be actionable, focused on the needs and interests of end users, embedded in the ongoing work of teaching and learning, available in understandable forms, customized, and supported by institutional leaders.
- External entities—especially accreditors, but also federal and state governments, philanthropic organizations, and higher education associations—should emphasize the use of results and the impact of changes in policies and practices on learning outcomes and institutional culture.
- Consequential assessment is not about compliance with external reporting demands but about institutional leaders, faculty, and others effectively using evidence to improve the educational experience of students.

Moreover, assessment activity tends to be driven more from the *outside*—in response to the demands and expectations of policymakers, accreditors, and others—and less by institutional needs and priorities for evidence that can be harnessed for improvement. The result, alas, is that assessment does not matter in the ways it could and should.

The expectation for accountability is legitimate. But to have the desired effects, evidence of what students know and can do must respond to genuine institutional needs and priorities. Far too often, that condition is not met. On too many campuses, assessment activity is mired in a culture of compliance rather than driven by collective concern about student performance or an ethos of “positive restlessness,” where information about student learning outcomes helps answer questions of real significance to faculty, staff, and students.

What can colleges and universities do to break loose from the compliance culture that has dampened the impact of assessment? How can assessment work become consequential so that information about learning outcomes is used to boost student and institutional performance?

### THE CHANGING CONTEXT FOR ASSESSMENT

The imperative to “make assessment matter,” as the title of this essay urges, needs to be understood in the context of the changing environment of postsecondary education. Five well-established trends underscore why the use of evidence of student learning will be so important in the years ahead.

- **1. A major driver of change in American higher education for the foreseeable future will be a harsher, less-forgiving economic environment that will place a greater premium on evidence of what students know and are able to do.**

Most of American higher education is struggling with the painful realization that the economic model that sustained and enabled the academic enterprise to flourish in prior decades is now severely strained. And as the options available to students multiply, competition becomes more prevalent.

In this challenging economic environment, evidence of learning outcomes could well be crucial to competitiveness, driving institutions to search for information to improve performance.

Campuses that have benchmarks of performance that can be easily understood and compared—for instance, by adopting proficiency frameworks such as the Degree Qualifications Profile (DQP) or its discipline-based counterpart, Tuning—could well be at a significant advantage as understanding what students know and are able to do becomes increasingly important to ensuring academic integrity, informing decisions, and controlling costs. Students too will benefit by having evidence of what they know and how effectively they can apply their learning to meet the challenges encountered in an increasingly complex and competitive world.

- **2. Technology-enhanced platforms will provide new and more comprehensive ways to monitor and document student proficiencies.**

Electronic transcripts and e-portfolios are now being used in ways that are better at recording both what students are learning and how well they are able to transfer their learning from in-class and out-of-class experiences to a variety of settings. These promising developments prompt a set of intriguing questions.

How might such technology-enhanced assessment approaches and tools be used to enhance and more effectively manage learning? What can such tools tell us about how students develop proficiency in integrating, synthesizing, and transferring knowledge to other contexts?

Efforts are also underway on some campuses to harness the power of big data and learning analytics to help institutions deploy effective early-alert systems and support student academic behaviors and performance. These efforts are likely to help us better understand how learning happens and thus to shape the ways faculty and staff work with students.

- **3. The roles and characteristics of providers and certifiers of learning—be they tenure-line faculty members, adjuncts, professional staff, interactive software users, or some as-yet “unimaginable other”—will continue to expand.**

Outcomes assessment is most useful when faculty design assignments that require students to demonstrate proficiencies consistent with intended course, program, and institutional goals. As straightforward as this statement appears, too few faculty members have institutional support for such work or opportunities to work with colleagues to develop the requisite expertise.

Provosts responding to our NILOA surveys appear to be aware of this; they clearly see the need for faculty to learn more about assessment approaches. They have reported as well that evidence from the classroom—which is to say, from the assignments that faculty design and use—is especially useful to improvement (Kuh & Ikenberry, 2009; Kuh, Jankowski, Ikenberry, & Kinzie, 2014).

The challenges of this work will be amplified by the changing demographics of faculty, most of whom are now employed off the tenure track. According to Adrianna Kezar and Daniel Maxey (2014), far too little is known about non-tenure-track faculty members' involvement in outcomes assessment—or indeed, in other traditional faculty oversight roles, including institutional governance.

A significant rethinking of teaching and learning models will be needed to accommodate the more robust and focused assessment efforts that are needed on campuses in the future. In the meantime, it is incumbent on academic leaders to determine the “assessment basics” that every full-time and part-time faculty and staff member should be able to deploy in their own classes, as well as to align this work with larger institutional efforts to advance student learning and improve educational quality.

- **4. The emergence of more comprehensive and transparent credentialing frameworks will bring more order, meaning, and legitimacy to the escalating numbers of postsecondary credentials—degrees, diplomas, certificates, certifications, licenses, badges, accreditations, and other mechanisms that recognize what students know and can do.**

The rapid growth of technology-based educational alternatives—not the least of which are Massive Open Online Courses (MOOCs)—and entrepreneurial initiatives emerging from both the for-profit and not-for-profit sectors will almost certainly increase the number of alternative and competing academic credentials. Little of this is understood by the fragmented network of educational providers, and the subtleties are even less comprehensible to students, employers, and the public.

This bewildering and expanding array of academic credentials brings with it a growing need to define and ensure the quality of any given credential in a manner that informs learners, employers, and others. The creation of a broader, deeper data infrastructure that permits user-friendly analysis and an exchange of information about competencies and credentials is the obvious answer, but that necessity makes the assessment of learning outcomes all the more essential.

Because established colleges and universities will continue to be a major—but not the only—credentialing agent, their student learning outcomes assessment processes must be of sufficient quality to play a meaningful role in this changing framework.

- **5. Increasingly, individual students, rather than colleges or universities, are becoming responsible for maintaining a cumulative record of their postsecondary knowledge and proficiencies.**

A majority of today's students take longer to complete their studies than the traditional two years for an associate degree or four for a baccalaureate degree, and they attend multiple postsecondary institutions before earning a college credential. As a result, it is difficult to hold any given institution accountable for what a graduate knows and can do (Ewell, 2013).

Coupling student mobility with the increasing interest in competency-based learning and the alternative credentialing frameworks discussed earlier makes it imperative that learning outcomes be assessed in ways that are easily understood and portable. The hope is that this new world will give students more flexibility and more options to learn from an ever-broader range of sources. But the credibility and value of these developments will depend on more and better evidence of proficiency that faculty members, institutions, and especially students find meaningful for their respective purposes.

## **EFFECTIVELY USING EVIDENCE OF STUDENT LEARNING**

How must an institution adjust its assessment efforts to respond to these new realities? How can assessment work become part of an institutional improvement strategy so that knowledge about student learning outcomes becomes consequential? What will it take to shift assessment from a compliance-driven activity to one that can actively shape and enhance the experience of students in a rapidly changing educational ecology?

Drawing on our collective experience and information gathered through NILOA's work over the past seven years, we offer six suggestions. We elaborate on these and other implications for student learning outcomes assessment in our 2015 book, *Using Evidence of Student Learning to Improve Higher Education*.

First and foremost, assessment data must be **actionable**, focused on the needs and interests of end users. This means identifying and involving the right stakeholders—faculty, staff, students, governing board members, and others as appropriate—at the beginning of any assessment project to determine priorities for evidence gathering.



To build interest and momentum, occasions must be created for people to come together to identify the questions and evidence they consider meaningful and useful for the ultimate goal of improving student learning. And at the close of any assessment effort, those same people need to be brought together again to make sense of the evidence and explore the implications of assessment results.

### **ACTIONABLE DATA FOCUSED ON USER NEEDS AND INTERESTS**

At St. Olaf College, assessment is framed as a form of “inquiry in support of students’ learning,” driven by faculty members’ questions. This utilization-focused, backward-design approach has guided departments and programs to prepare assessment *action* reports, rather than data reports, that outline how they will use the findings to modify curriculum requirements, course content, student assignments, or instructional practices. Similarly, the institution’s philosophy and approach to assessing general education was developed only after identifying how results would be used by individual instructors and by departments and committees.

Of the multiple potentially actionable sources of evidence of student learning, the most useful typically address the questions posed by people who can change policies and pedagogical practices to foster higher levels of student engagement and achievement. A habit of addressing genuine campus questions, a track record of using evidence of student learning in productive ways, and a history of documenting improvement—these are the best antidotes to a compliance-driven assessment agenda where priorities are dictated by constantly changing external demands. This approach can also help guard against the “initiative fatigue” that often follows a wave of new projects, because the assessment questions being addressed are those that members of the campus community really want answered.

Second, effective assessment is **embedded in the ongoing work of teaching and learning** rather than carried out exclusively using externally developed tools to satisfy demands for comparability. Thus, those at the center of the teaching-learning process—faculty, students, student affairs staff, librarians, and others—must help shape priorities and engage in the work in meaningful ways if they are to find the results illuminating and useful.

Often the most compelling and actionable evidence comes from rubric-based evaluations of students’ performance in classrooms, laboratories, and studios. It may also take other forms such as surveys; comprehensive evaluations of student performance in internships and field placements; or results from focus groups of students, alumni, and employers.

Students benefit from embedded assessment, which deepens their learning by requiring them to document it, reflect on it, talk about it with other students and with faculty, and in some cases develop new strategies for studying it. Taking advantage of the important work that faculty and other staff are already doing recognizes and capitalizes on their professional expertise while further developing individual and institutional capacities.

### **ASSESSMENT EMBEDDED IN THE ONGOING WORK OF TEACHING AND LEARNING**

NILOA’s 2013 Provost Survey indicated that some of the most useful evidence about student learning comes from the papers, projects, performances, examinations, and portfolios assigned by faculty as a part of regular coursework. Yet few faculty members have structured occasions or support to work with colleagues to design and refine those assignments.

Toward these ends, NILOA has convened groups of faculty from both two and four-year institutions in highly interactive “charrettes” (a term borrowed from architecture education) to create powerful assignments aligned with critical learning outcomes such as those specified in the DQP. Those assignments are now being made available at <http://www.assignmentlibrary.org>. Guidance for campuses that wish to undertake this process locally is available in a NILOA report found at [http://learningoutcomesassessment.org/documents/Assignment\\_report\\_Nov.pdf](http://learningoutcomesassessment.org/documents/Assignment_report_Nov.pdf).

While the most meaningful and actionable questions are not always easily answered, bringing assessment closer to the various in-class and out-of-class venues where learning actually occurs almost always increases the odds of garnering buy-in and identifying which changes in policy and practice can make a positive difference.

Third, assessment data can only become consequential if they are **made available in understandable forms** to the people who have a need to know and act on them. Too often, reporting on student learning fails to meet the needs of the campus—those felt by faculty, staff members, academic leaders, governing boards, and others. And too often, institutions release reports that highlight a particular set of data—the results of this survey or that focus group—hoping that it meets some unidentified need.

A more consequential approach is to weave together, from many different sources, evidence that addresses the questions of those on campus who are in the best position to interrogate, interpret, and use evidence of student learning to make decisions to enhance that learning.

One set of questions, for instance, might focus on the extent to which students are proficient in writing at the end of their first year, midway through their major, and on the eve of graduation. These questions might be answered by evaluating samples of student work from writing-intensive courses and participating in the National Survey of Student Engagement, which provides information about the number and length of student papers, the amount and timing of feedback students get from faculty about their writing, and whether faculty members expect student papers to draw on and integrate ideas from different courses or readings representing diverse perspectives.

### **EMBEDDING ASSESSMENT IN TEACHING AND LEARNING BY INVOLVING STUDENTS**

As participants in the University of California Merced’s Students Assessing Teaching and Learning (SATAL) project, students design, collect, and analyze evidence to help faculty better understand the learning experiences of their students and improve teaching and student performance through formative assessment. This can mean doing focus groups with students and producing a report on the results or interviewing students in a class and sharing what is learned with the instructor.

Much of the work takes place at the classroom level, but SATAL also entails program-level assessment and research. For instance, findings from student-led focus groups prompted applied mathematics faculty to rethink their senior capstone experience (Center for Research on Teaching Excellence, 2011). And SATAL students also benefited as they gained insights into both the educational process and themselves as learners. (See <http://crte.ucmerced.edu/satal>)

### **MAKING DATA UNDERSTANDABLE TO THOSE WHO CAN USE THE INFORMATION**

At Juniata College, the purpose and intended use of assessment data are regular discussion topics for the Institutional Effectiveness Council, a committee charged with pushing information out of the institutional research office and into the hands of people who need and can use it (Jankowski, 2011).

For instance, in response to faculty concerns about the quality of student writing, the institution brought together evidence from the Collegiate Learning Assessment and the National Survey of Student Engagement, which led to revised, learning-centered goals for a required writing-across-the-curriculum seminar, a shift from three to four credit hours, and a commitment of additional institutional resources to provide faculty workshops on teaching and evaluating writing. Organizing and reporting assessment results that directly addressed an identified need helped make the data meaningful and actionable.

Other data sources may also be pertinent, such as papers produced in capstone courses or results from an external performance measure such as the Collegiate Learning Assessment. In other words, to produce information that will actually be *used*, it is important to emphasize the “demand” side of assessment—not to just sprinkle evidence around and hope that it will trickle out to good effect.

Granted, reporting student learning outcomes to interested parties on or off campus can be risky. Uncomfortable questions may arise; the answers to them may be embarrassing. Yet broad

transparency—sharing results with faculty committees, the academic affairs committee of the governing board, policymakers, the media, business leaders, alumni, and others—can foster a climate of openness and build confidence and trust among both internal and external constituencies.

Indeed, having people at the table with diverse perspectives and experiences to help interpret findings and debate their implications can only heighten opportunities for improvement. This kind of transparency communicates important institutional values and an agenda shaped by the institution itself, rather than one imposed from the outside. Student voices are especially important in these conversations.

Institutional leaders, faculty, and staff need to be more proactive in converting the expectations of external groups into opportunities to improve student and institutional performance by effectively communicating relevant information to various stakeholders. Making information accessible in plain language via a website can signal that an institution is responsible to its stakeholders and is focused on ensuring quality.

Understanding the root causes of external demands and expectations will make accommodating and responding to such requests more efficient and effective in the long term. Whether related to accreditation or public policy, the goal must be to use external compliance demands to stimulate and accommodate well-functioning, productive, internally driven programs of assessment and quality assurance. Essential to this task is clear and persuasive communication about what are appropriate and inappropriate indicators of quality, as well as about best practices related to teaching, learning, and assessment.

Fourth, external entities—especially accreditors, but also federal and state governments, philanthropic organizations, and higher education associations—can promote more consequential assessment by emphasizing *the use of results and the impact of changes in policies and practices* on learning outcomes and institutional culture. Other parties, such as employers and taxpayers, also have legitimate reasons to be interested in the quality of academic outcomes.

As in other areas of contemporary life such as health care, transportation safety, and environmental protection, there is a broad and fundamental societal interest in the quality of higher education. And if for no other reason than their fiduciary roles, federal and state governments have a duty to ensure that public funds are spent wisely and prudently. But when institutions look to accreditors and government to “tell them what to do,” they further reinforce a compliance mentality.

Accrediting organizations' and government entities' demands on institutions for assessment are constantly evolving and can change quickly. National associations try to keep up with these demands by organizing their members to undertake new initiatives in assessing student learning. But meanwhile, campuses need to build assessment policies and approaches that, while focused on institutional needs and priorities, are at the same time flexible and adaptable.

There are internal reasons to do this as well. The assessment questions of interest to faculty members in various disciplines, student affairs staff, and external audiences may differ—as will the information each considers meaningful and usable.

So, fifth, institutions need to *customize assessment work* to adequately address these shifting conditions and varying needs. The rich diversity of American higher education makes it impossible for a one-size-fits-all approach to assessment to succeed. What will work in large, complex universities with multiple missions may not work in smaller institutions with more focused or specialized educational programs.

#### ACCREDITATION EMPHASIZING THE CONSEQUENTIAL USE OF ASSESSMENT DATA

The WASC Senior College and University Commission organizes a number of professional-development opportunities to support the use of assessment for improvement by member institutions. The Assessment Leadership Academy, an eleven-month course of study first offered in 2010, prepares individuals to provide leadership for assessment activities on their campuses and beyond. It was established in part to counter an assumption that assessment was primarily about compliance (see Wright, 2013).

WSCUC also offers workshops for institutions focused on a requirement that member institutions include a component addressing the “meaning, quality, and integrity of the degree” as part of their self-study. The workshop is an opportunity for inter-institutional conversation during which participants can explore connections between institutional mission, expectations for student learning across degrees and programs, and institutional assessment activities. In this way, assessment is framed not as a reporting requirement but as a critical component of educational quality and improvement.

However, all institutions that have successfully converted information about student learning into actionable evidence share a handful of conditions that support and sustain an assessment agenda. Most important, they organize and design assessment with end users and desired impacts in mind. That is, they address issues to which their stakeholders need answers.

We recently worked with the academic leaders of some of the nation's leading public and private research universities, exploring the challenge of gathering evidence of student learning in these large, multi-mission institutions. What were these highly respected institutions doing, we asked, to gain insight into what their students know and can do?

Among other things, our experience revealed how deep and impenetrable are the academic silos on many campuses. Academic units share very little with one another. What student affairs staff learn about student life outside the classroom often fails to connect with evidence from the classroom.

In some cases, the institution's “center”—top leadership, the assessment office, or institutional research, for example—has little or no knowledge of what is or is not happening with respect to student learning and experience in its various parts. Sharing evidence of student learning and using it more broadly in consequential ways requires faculty and staff engagement and collaboration. This in turn means shaping assessment activity to match the needs and culture of the setting, thinking about who needs to be involved and in what ways, and putting supports in place.

An assessment approach that is useful in almost any setting is what can be termed “methodological pluralism,” whereby institutions employ multiple assessment frameworks tailored for the particular context (this might be program review on one campus and curricular reform on another) in order to yield actionable assessment results. Methodological pluralism also demands periodically “assessing assessment” to determine whether evidence of student learning is being effectively harnessed.

When carried out in this fashion, assessment can meet the needs and demands of external authorities—including accreditors—while also generating information that is useful in meeting campus needs and priorities. But it requires that institutions develop electronic databases of learning outcomes capable of efficiently producing new kinds of reports that bring together different types and levels of evidence as internal and external needs and demands shift.

Sixth, consequential assessment requires *leadership*. Much has been written about the difference between leading and managing. Managing, as the saying goes, is about doing things right; leadership is about doing the right things.

Academic staff and faculty can lead by working with institutional membership associations, accrediting commissions, policymakers, business leaders, philanthropic foundations, and others to help align accountability demands with institutional assessment and quality-assurance mechanisms.

Too few academic leaders, however, are involved in debating and setting accreditation policy and expectations, especially those related to assessment. Too few presidents and provosts are active in national higher education associations that stand at the intersection of government and academia.

## CUSTOMIZING ASSESSMENT WORK TO REFLECT THE CAMPUS CULTURE

Assessment work at Marquette University is grounded in its Jesuit pedagogy and the interests of faculty as teacher-scholars. Reflection and collaboration are emphasized by designated Program Assessment Leaders in each program area, who facilitate discussions with faculty and staff about assessment plans and results, and also through a required peer-review process that provides formative feedback on assessment reports.

Assessment is a collaborative effort of individual faculty, programs, co-curricular units, the Office of Institutional Research and Analysis, the Center for Teaching and Learning, and the Division of Student Affairs. Learning outcomes and assessment plans, highlights, and reports are made available to each academic program, the Division of Student Affairs, and other internal—as well as external—audiences. In addition, a dedicated website, “Your Voice,” provides information to students about what Marquette does with the survey information collected. (See [www.marquette.edu/assessment/index.shtml](http://www.marquette.edu/assessment/index.shtml))

## LEADERSHIP FOR ASSESSMENT

LaGuardia Community College, a pioneer in the use of e-portfolios, has well-established procedures for assessing student artifacts and regularly reviews its assessment processes to determine whether additional approaches are suggested by the results and to catalyze greater learning-centered institutional change (Eynon, Gambino, & Török, 2014; Provezis, 2012). Central to these developments is visionary, steadfast leadership from LaGuardia's president, Gail Mellow, who has been a strong advocate for using assessment data to address the learning needs of its highly diverse student population.

Mellow champions and supports faculty and staff participation in teaching and learning conferences, finds resources to underwrite a range of assessment-focused campus workshops, participates in portfolio reviews, reads the periodic program reviews required of all programs, and provides customized feedback to programs. By using evidence to inform decision making, she models how actionable data representing authentic student accomplishment can demonstrably increase student success. Mellow also acts on these commitments in her work as a member of numerous boards and organizations that help to shape educational policy and practice beyond her institution.

More college and university presidents need to spend time with state and federal legislators from their districts explaining what their campuses are doing to measure learning, to improve student success, to reduce costs to students and the public, and to improve institutional effectiveness. More active participation in the form of *stronger leadership*—which can and must come from every level of the institution—could make a material difference in pushing external pressures in constructive directions.

## FINAL THOUGHTS

There is a palpable sense that higher education is at a fork in the road. Because the need for higher learning has never been greater, the direction we choose in terms of student learning outcomes assessment will matter a great deal. Economic competitiveness; the health of the democracy; and society's capacity to innovate, create, and compete all rest on high-quality educational outcomes.

As a strategy, assessment—the questions it is designed to answer, the institutional priorities it is intended to inform, and the needs and interests it is meant to address—must be shaped by faculty members, student-affairs professionals, deans, provosts, and presidents, in concert with academic senates, governing boards, and students.

The value of assessment can only be measured by the contribution it makes to student success and the degree to which it improves institutional performance. A campus that prioritizes gathering evidence to answer and then address important questions about student learning realizes the double benefit of getting better while also meeting accountability demands. In this way, accountability becomes a natural by-product of assessment, not its driver.

Those who engage in the assessment of student learning, as well as those who call for or use the evidence it generates, should do so with a generous dose of patience and humility, recognizing both the promise of gathering actionable evidence and its limitations. Students come with different motivations, aspirations, and levels of pre-college accomplishment. Faculty have sometimes conflicting views as to what learning outcomes are relevant and which are genuinely important.

In this context, no single test score or institutional rating is likely to reveal much of value about what students actually know and can do—let alone shed light on the changes that need to be made to improve these outcomes. Those outside higher education who demand accountability must be willing to accept this reality and complexity.

Those within the academy, in turn, must answer real questions with evidence—not just to verify academic quality but to make it stronger and better. It is within this broader context that we believe the shift of student learning assessment from a culture of compliance to one focused on institutional transformation will be so important in the era that lies ahead.

The picture within our clouded crystal ball looks like this: As attention shifts toward individual students and what they know and can do; as the capacity to gather, store, and add to proficiency-based credentials grows as a result of technology; as the nature of the faculty and other learning providers continues to diversify and the range of accepted markers of learning expands (diplomas, badges, licenses, certificates, etc.)—all of this occurring in a challenging economic environment—the on-campus demand for evidence of student learning will become ever more important and should take precedence over externally driven demands for assessment.

It is essential that we overcome the culture of compliance if students and institutions are to prosper in the years ahead; doing so will also help to strengthen the public's confidence in and support for higher education. This shift—call it a transformation—will not happen in the absence of committed leadership from faculty and staff members, department and unit chairs, deans, provosts, presidents, and governing boards—in short, from those *inside the academy*. Such a transformation is not the stuff of miracles but of constant attention and collective responsibility. What remains to be seen is whether we have the will to accept that responsibility.

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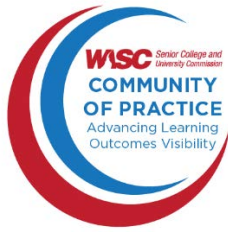
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## COMING SOON!

### Join a Free Community of Practice for Advancing Learning Outcomes Visibility

Starting in Spring 2017, with funding from Lumina Foundation, WSCUC is offering institutions an opportunity to participate in a free Community of Practice to lend support, guidance, and consulting around projects related to assessing student learning and demonstrating visibility of that learning.

#### Through participating, institutions will have opportunities to:

- Engage in student learning assessment and visibility projects that are informed by national and regional thought leadership, knowledge generation, capacity building, and resource sharing within the Community of Practice, with the intention of broad-based engagement across the region over time.
- Engage with expert consultants to help guide projects and highlight best practices. Regional and national content and/or assessment experts who will provide advice, guidance, and resources are paid for as part of the grant.
- Build networks and support among participants in the Community of Practice, which support similar projects.
- Have WSCUC support, guidance, and input from dedicated facilitator of the Community of Practice.
- Engage in opportunities that build sustainable assessment practices to support student learning and accreditation requirements.

#### Participating institutions will:

- Create and implement an assessment visibility project to developed, implemented, and shared within the Community of Practice;
- Experiment with adopting or adapting existing frameworks, models, and resources to promote alignment and coordination of work across institutions;
- Share strategies, resources, and examples broadly within and outside of the WSCUC community;
- Interact regularly in virtual Community of Practice discussions and activities.

Contact Errin Heyman, Program Manager, for more information: [eheyman@wascsenior.org](mailto:eheyman@wascsenior.org)

*Check the WSCUC website soon for more information!*

[www.wascsenior.org](http://www.wascsenior.org)

## MARK YOUR CALENDARS 2016-2017 EDUCATIONAL WORKSHOPS

WASC Senior College and University Commission is pleased to announce a selection of educational programs for 2016-17\*. Developed by regional and national experts, they cover topics of vital interest to all higher educational institutions – and particularly to those in the WSCUC region. They are entirely optional, but our hope is that member institutions will find them of service. WSCUC staff will be present at each session to answer any questions related specifically to WSCUC accreditation expectations.

- ★ **Meaning, Quality, and Integrity of Degrees: Exploring Approaches, Models, & Tools**  
October 19, 2016. Kellogg West, Pomona, CA
- ★ **The Big Five: Addressing The Five Core Competencies (2-day Retreat)**  
October 20-21, 2016. Kellogg West, Pomona, CA
- ★ **Assessment 201: Advanced Topics in Assessment**  
November 18, 2016. University of San Francisco, San Francisco, CA
- ★ **President/Trustee Retreats**  
December 8, 2016. Woodbury University, Burbank, CA  
December 9, 2016. Mills College, Oakland, CA
- ★ **NEW! Building a Culture of Quality: A Retreat for Institutional Leaders – with Linda Suskie**  
January 17, 2017. Kellogg West, Pomona, CA
- ★ **NEW! The Changing Faculty: Exploring & Creating Models for Institutional and Educational Effectiveness – with Adrianna Kezar**  
January 18, 2017. Kellogg West, Pomona, CA
- ★ **Assessment 101: The Assessment Cycle, Clear and Simple**  
February 2, 2017. Pitzer College, Claremont, CA
- ★ **NEW! Analytics for Academics: Producing Actionable Information about Students and Learning to Improve Effectiveness**  
February 3, 2017. Pitzer College, Claremont, CA
- ★ **Assessment 101: The Assessment Cycle, Clear and Simple**  
May 18, 2017. Hawai'i Pacific University - Honolulu, Hawai'i
- ★ **Meaning, Quality, and Integrity of Degrees: Exploring Approaches, Models, & Tools**  
May 19, 2017. Hawai'i Pacific University - Honolulu, Hawai'i

*Check the WSCUC website for details!*  
[www.wascsenior.org](http://www.wascsenior.org)



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