

Closing the Loop in Assessment: Examples, Strategies, and Changes

Dan McInerney Session 2: 1-2:15 10/22

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"BEGIN WHERE PEOPLE ARE, NOT WHERE YOU WANT THEM TO BE."

(Public Agenda, NYC mediating agency)

faculty passionate about their courses

passionate about student success

passionate about their disciplines

ASSESSMENT IN 2019 IS NOT LIKE ASSESSMENT 15 YEARS AGO

- primary focus on improvement of teaching & learning (rather than compliance)

- faculty at the center

- addresses the learning that takes place in actual classes, with actual students, working on actual assignments

- varied measures

- work that prepares students for nonstandard, unscripted problems and questions, helping them deal with the complex and uncertain

STARTING FACULTY CONVERSATIONS

KEY QUESTION:

When students complete a course, a program or a degree,

what should they know, understand, and be able to do?

STARTING FACULTY CONVERSATIONS

EMPHASIZE:

intentionality

making the implicit explicit

"my course" \rightarrow our curriculum











INTRODUCTORY COURSES: PERFECT PLACE TO *DEMYSTIFY* PROGRAMS AND THE HISTORY, PURPOSE, AND GOALS OF PROGRAMS AND GENERAL EDUCATION

-Address students' uncertainty / confusion / frustration about Gen Ed

First slide in my Gen Ed history course . . .

WHY AM I IN THIS COURSE?

INTRODUCTORY COURSES: PERFECT PLACE TO *DEMYSTIFY* PROGRAMS AND THE HISTORY, PURPOSE, AND GOALS OF PROGRAMS AND GENERAL EDUCATION

-Address students' uncertainty / confusion / frustration about Gen Ed
-Explain the reasons for Gen Ed
-Explain what a discipline *produces* for GE
-Explain what a discipline *consumes* from GE
-Explain the transferable skills students develop in YOUR course

WORK WITH AN INCLUSIVE NOTION OF "EDUCATORS"

contingent faculty adjuncts, part-time, post-docs

> librarians academic advisors

career counselors

campus orientation officers

centers of teaching and learning

K-12 teachers and organizations

CLARIFY INCENTIVES TO JOIN IN THE WORK

Recognized in tenure and promotion decisions?

Awards, honors, certificates?

Create a "no-fault" environment for pedagogical experimentation?

HELPFUL WAYS TO EVALUATE STUDENT WORK

VALUE rubrics

https://www.aacu.org/value/rubrics in Undergraduate Education)

(Valid Assessment of Learning in Undergraduate Education

| | <u>Areas:</u> | |
|------------------------|---------------------|----------------------|
| Inquiry and Analysis | Critical Thinking | Creative Thinking |
| Teamwork Written | Communication | Oral Communication |
| Quantitative Literacy | Information Literac | cy Reading |
| Integrative Learning | Problem Solving | Global Learning |
| Civic Knowledge & Engc | agement Ethical | Reasoning and Action |
| Intercultural k | (nowledge & Com | petence |

| | | LITERACY VALUE RU mation, please contact value@sack.org | BRIC | AA CCI | | |
|---|---|---|--|---|--|--|
| The ability to know when there is a nee | d for information, to be able to identify, locate, eval Evaluators are ensuranged to arrige a g | Definition uate, and effectively and responsibly use and share on to any work sample or collection of work that does not | | ational Forum on Information Literacy | | |
| | Capstone 4 | 3 Mile | atonea 2 | Benchmark 1 | | |
| Desemine the Exists of Information Needed | Effectively defines the scope of the research question or thesis. Effectively determines key conteness. Types of information (sources) selected directly relate to concepts or answer research question. | Defines the scope of the insearch question or thesis complexity. Can dearmine key concepts. Types of information (sources) selected relate to concepts or answer research question. | Defines the scope of the research question or thesis incomplexely (jurns are missing, remains too broad or on narrow, ecc). Can determine hay concepts. Types of information (sources) selected partially raise to concepts or answer research question. | Has difficulty defining the scope of the research question or thesis. Has difficulty determining key concepts, Types of information (source) selected do not relier to concepts or answer research question. | | |
| Access the Needed Information | Accesses information using effective, well- designed search strategies and most appropriate information searces. | Accesses information using variety of search strategies and some relevant information sources. Demonstratus ability to refine search. | Accesses information using simple search strategies, retrieves information from limited and similar sources. | Accesses information randomly, retrieves information that lacks relevance and quality. | | |
| Evaluate Information and its Sources Critically* | Chooses a variety of information sources appropriate to the scope and discipline of the testearth question. Selects sources after considering the importance (to the messashed topic) of the milple critizen sued (such as relevance to the messelt question, currency, ambority, authorizen, and bias or point of view). | Chooses a variety of information sources appropriate to the copie and discipline of the research question. Selects sources using multiple criteria (such as reference to the research question, currency, and autority.) | Chooses a variety of information sources. Selects sources using basic criteria (such as relevance to the research question and correctly) | Chooses a few information sources. Selects neurors using limited criteria (such as relevance to the research question.) | | |
| <u>Esc. Information</u> Effectively to Accomplish a Specific Purpose | Communicates, organises and symthesiaes information from sources to fully achieve a specific purpose, with clastry and depth | Communicates, organizes and symbolizes information from sources. Intended purpose is achieved. | Communicants and organises information from sources. The information is not yet synthesized, so the intended purpose is not fully athieved. | Communicates information from sources. The information is fragmented and/or used imppropriately (maquited, taken out of context or incorrectly paraphrased, etc.), so the intended purpose is not achieved. | | |
| Access and Use Information Ethically and Legally | Studens use concercly all of the following, information use transport (see of classics and references; thesics of paraphaning, summary, or georing, using information is ways that are true to original concerce, distinguishing between common knowledge and lakes requiring archiveno) and demonstrates a full understanding archiveno) and demonstrates a full understanding the checkal and leage terrateristons on the use of published, confidential, and/or proprietary information. | understanding of the ethical and legal | Students use controly two of the following information use transpire (size of distortion and references, choice of paraphraing, terminary, or georing, using information in wyrs with a text trae, to original construct, distripubling between common knowledge and helse requiring; antibuotoj, and demonstrates a full understanding of the exheck and legal restrictions on the use of published, confidential, and/or propriorary information. | Students use correctly note of the following information use transpler four of clustons and references, choice of paraphasing, summary, or quoting, using information in ways that are true to organizal context, distinguishing between correston knowledge and heas requiring, antibution) and demonstrates a full understanding of the cétola and legal restrictions on the use of published, confidential, and/or proprietary information. | | |

ASSESSING CO-CURRICULAR, EXTRA-CURRICULAR, AND STUDENT LIFE ACTIVITIES

SEE:

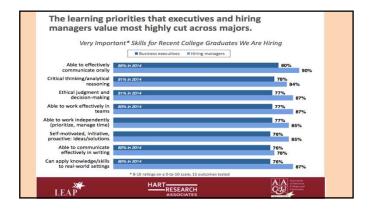
http://degreeprofile.org/resource-kit/student-affairs-and-co-curriculum/ https://manoa.hawaii.edu/assessment/spprog/2010pdf/2010-FYP.pdf http://www.learningoutcomeassessment.org/documents/Grant_assess ment_in_practice.pdf http://www.learningoutcomesassessment.org/documents/Mapping%20 Learning.pdf http://www.learningoutcomesassessment.org/documents/Assessment_i n_Practice_Maryville2.pdf

TALK WITH GRADUATES' EMPLOYERS: WHAT SETS OF KNOWLEDGE AND SKILLS WILL SERVE STUDENTS WELL IN THEIR CAREERS?

Association of American Colleges & Universities A Votes and A Force For Landau Education in the 21st Contrary

https://www.aacu. org/leap/publicopinion-research

The statistic i Engine Roop Limiter Tee Namer Employee Survey & Economic Teend Research April A ACU's Used Exaction and America's Thomas (EAP) Hallwe, ACAU periodial y commission allocal survey and/r conduct too aprup to seame tends and the survey and the seame tends with the survey and tends the Mart Insolute Caluma Learning Dubores



TALK WITH YOUR STUDENTS

Did family members attend college?

What's working well in classes?

What's a major problem with classes?

What's a complete mystery about higher ed?

What's next?

BUILD LEARNING OUTCOMES AROUND ACTIVE VERBS

Key issue:

Students who complete this course / program / degree CAN

BUILD LEARNING OUTCOMES AROUND ACTIVE VERBS

http://learningoutcomesassessment.org/documents/Occ asional_Paper_24.pdf

National Institute for Learning Outcomes Assessment

To Imagine a Verb: The Language and Syntax of Learning Outcomes Statements

CDD-LALIN-

- "Operational" means real verbs that describe what students actually do, and that lead directly to assessment.
- "Dead end" nouns such as "appreciation," "awareness," "ability," and "critical thinking" are not part of this vocabulary.
- Why? Because they do not lead directly to assessments (assignments, exam questions, performances, projects) and, in the DQP world, sample assessments must accompany each adopted statement of required competence!

| Working Verb Groups Empirical Content | Levin's Analogous Verb Cla (Page References) |
|---|---|
| A) Preparing (artifacts, materials, tools, texts) Access, acquire, collect, extract, gather, locate, obtain, retrieve, seek | Obtaining (142) |
| B) Delineating Categorize, characterize, classify, define, describe, determine, frame, identify, prioritize, specify | Characterizing (181) |
| C) Explicating Articulate, clarify, explain, illustrate, interpret, outline, translate | No comparable grouping found |
| D) Examining Analyze, compare, contrast, differentiate, distinguish, extract, formulate, map | Separating (165) |
| E) Inquiring Experiment, explore, hypothesize, investigate, research | Investigating (198) |
| Formatting Arrange, assemble, collate, organize, sort | Build Verbs (172)71 |
| G) Combining Assimilate, consolidate, connect, integrate, link, synthesize, summarize | Amalgamating (160) ⁷² |

| H) Making Build, compose, construct, craft, create, design, develop, generate, model, shape, simulate | Create Verbs (175) |
|--|---------------------------------------|
| Utilizing Apply, carry out, conduct, demonstrate, employ, implement, perform, produce, show, use | Performance verbs (178) ⁷³ |
| Operating (executive functions) Administer, control, coordinate, engage, lead, maintain, manage, navigate, optimize, plan, undertake | No comparable grouping found |
| K) Deliberating Argue, challenge, debate, defend, justify, resolve | No comparable grouping found. |
| L) Valuating Audit, appraise, assess, evaluate, judge | Verbs of Assessment (196) |
| M) Communicating Convey, display, disseminate, express, respond | No comparable grouping found |
| N) Converging (for group academic work) Collaborate, contribute, interact, negotiate, participate | "Correspond Verbs" (200) |
| Re-thinking Accommodate, adapt, adjust, improve, modify, refine, reflect, review | Change of state (244- 245) |
| P) Certifying Cite, document, observe, record, reference, source (v) | No comparable grouping found. |
| Q) Processing Calculate, determine, estimate, manipulate, measure, solve, test | Measure verbs (272) |

| Knowledge | Comprehension | Application | Analysis | Synthesis | Evaluatio |
|-----------|---------------|-------------|---------------|-----------|-----------|
| arrange | classify | apply | analyze | arrange | appraise |
| define | describe | choose | appraise | assemble | argue |
| delineate | discuss | demonstrate | calculate | collect | assess |
| duplicate | explain | dramatize | categorize | compose | attach |
| label | express | employ | classify | construct | choose |
| list | identify | illustrate | compare | create | compare |
| match | indicate | interpret | contrast | design | core |
| memorize | locate | operate | critique | develop | defend |
| name | recognize | practice | debate | formulate | estimate |
| order | report | schedule | diagram | manage | evaluate |
| outline | restate | show | differentiate | organize | judge |
| recall | review | sketch | discriminate | plan | measure |
| recognize | select | solve | distinguish | predict | predict |
| relate | summarize | use | examine | prepare | rate |
| repeat | toll | write | experiment | propose | revise |
| reproduce | translate | | inspect | set up | score |
| specify | | | question | write | select |
| state | | | relate | | support |
| underline | | | test | | value |

| Receiving | Responding | Valuing | Organization | Characterization |
|-----------|------------|---------------|--------------|------------------|
| ask | answer | complete | adhere | act |
| choose | assist | describe | alter | discriminate |
| describe | comply | differentiate | arrange | display |
| follow | conform | explain | defend | influence |
| give | discuss | follow | explain | listen |
| identify | help | initiate | generalize | modify |
| name | perform | join | identify | perform |
| select | present | justify | integrate | practice |
| reply | select | read | modify | propose |
| use | tell | report | organize | qualify |
| | | select | prepare | question |
| | | share | relate | serve |
| | | study | synthesize | solve |
| | | work | | use |
| | | | | verify |

HELP STUDENTS BUILD A PERSUASIVE NARRATIVE OF THEIR EDUCATIONAL EXPERIENCE

-E-PORTFOLIO work: self-reflective exercises -THOUGHTFUL LEARNING OUTCOMES: skill based -SAMPLE JOB INTERVIEWS -APPLICATION LETTERS -CONVERSATIONS WITH EMPLOYERS / HR STAFF

PROJECTS TO CONSIDER

http://degreeprofile.org/assi gnment-design-work/



assignment workshops

http://www.learningoutcomeassessment.org/assignmenttoolkit.html

-How is the assignment related to course goals? -How is it related to larger program goals? -Is the assignment clear to students? -What do students learn from the assignment? -Is the assignment pitched to the students' preparation and experience? -Are the evaluation criteria clear and explicit? -What does a good student response look like? -Which parts of the assignment would you like to reconsider or redesign?

assignment workshops

http://www.assignmentlibrary.org/

-collaborative discussion of course exercises -build on campus efforts already underway -provides models and examples that others can learn from, adapt, borrow -demonstrate that high-stakes, faculty-built

assignments provide key information on student learning (compared to other, more distant forms of assessment)

-honors and makes visible the intellectual work of assignment design

WORK ON INTER-RATER RELIABILITY

https://www.pcc.edu/resources/academic/learningassessment/documents/LACMtg2InterRater_Reliability.pdf

extent to which two or more raters (evaluators / coders / examiners) agree

addresses the consistency of evaluations

measures producing similar results under consistent conditions have high reliability

determined by using different statistics: -ex. percentage agreement

| | Ra | ters | |
|-----------------|------|-------|------------|
| Var# | Mark | Susan | Difference |
| 1 | 1 | 1 | 0 |
| 2 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 |
| 4 | 0 | 1 | -1 |
| 5 | 1 | 1 | 0 |
| 6 | 0 | 0 | 0 |
| 7 | 1 | 1 | 0 |
| 8 | 1 | 1 | 0 |
| 9 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 |
| Number of Zeros | | | 8 |
| Number of Items | | | 10 |

| Var# | | 1 | Raters | | | % Agreement |
|------|------|-------|--------|-----|-------|--------------|
| var# | Mark | Susan | Tom | Ann | Joyce | 76 Agreement |
| 1 | 1 | 1 | 1 | 1 | 1 | 1.00 |
| 2 | 1 | 1 | 1 | 1 | 1 | 1.00 |
| 3 | 1 | 1 | 1 | 1 | 1 | 1.00 |
| 4 | 0 | 1 | 1 | 1 | 1 | 0.80 |
| 5 | 0 | 1 | 0 | 0 | 0 | 0.80 |
| 6 | 0 | 0 | 0 | 0 | 0 | 1.00 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1.00 |
| 8 | 1 | 1 | 1 | 1 | 0 | 0.80 |
| 9 | 0 | 0 | 0 | 0 | 0 | 1.00 |
| 10 | ĩ | 1 | 0 | 0 | 1 | 0.60 |

| % goal? |
|---|
| Commonly defined as 0.8 |
| • (<i>some</i> variation within the assessment community |
| range of 0.75 - 0.8 as desirable) |
| |
| |

"MAP" YOUR CURRICULUM

Your major has certain learning outcomes?

In what classes do colleagues develop those outcomes

At what level?

Through what exercises?

http://www.learningoutcomesassessment.org/docu ments/Mapping%20Learning.pdf National Institute for Learning Outcomes Assessment Making Learning Outcomes Usable & Transparent

Mapping Learning: A Toolkit of Resources

http://www.learningoutcomesassessment.org /documents/Mapping%20Learning.pdf

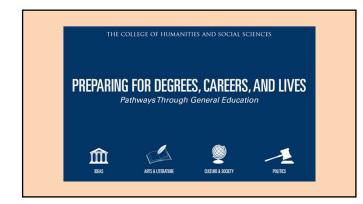
| | Outcome 1 | Outcome 2 | Outcome 3 |
|------------------------|----------------|-------------------|----------------|
| Course 1 | Х | X | |
| Course 2 | | X | |
| Course 3 | Х | | х |
| | Figure 1: A ba | asic curriculum n | nap |
| | Outcome 1 | Outcome 2 | Outcome 3 |
| | Outcome | | Outcome 3 |
| Course 1 | I | | D |
| Course 2 | D | 1 | |
| Carros 2 | M | D | M |
| Course 3 | | | |
| Course 3 gure 3: Cu | rriculum map | showing scaffo | Iding of learn |

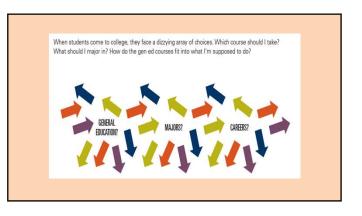
| | Introductory Course | Research Methods | Advanced Content Course A | Laboratory / Practicum Course | Advanced Content Course B | Advanced Content Course C | Advanced Content Course D | Capstone Course |
|---|------------------------|---------------------|---------------------------------|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|
| Content | | | | | | | a | |
| SLO 1: Disciplinary knowledge base (models and theories) | Introduced | | Reinforced | | Reinforced | Reinforced | Reinforced | Mastery / Assessed |
| SLO 2: Disciplinary methods | | Introduced | | Reinforced | | Reinforced | | Mastery / Assessed |
| SLO 3: Disciplinary applications | Introduced | | Reinforced | | Reinforced | | Reinforced | Mastery / Assessed |
| Critical Thinking | | | | | | | | |
| SLO 4: Analysis and use of evidence | | Introduced | | Reinforced | Reinforced | | Reinforced | Mastery / Assessed |
| SLO 5: Evaluation, selection, and use of sources of information | Introduced | Reinforced | | Reinforced | | Reinforced | | Mastery / Assessed |
| Communication | | | | | | | | |
| SLO 6: Written communication skills | Introduced | Reinforced | | Reinforced | | Reinforced | | Mastery / Assessed |
| SLO 7: Oral communication skills | | Introduced | Reinforced | | Reinforced | Mastery / Assessed | | |
| Integrity / Values | | | | | | | | |
| SLO 8: Disciplinary ethical standards | | Introduced | | Reinforced | Reinforced | | | Mastery / Assessed |
| SLO 9: Academic integrity | Introduced | Reinforced | Reinforced | Reinforced | | Reinforced | | Mastery / Assessed |

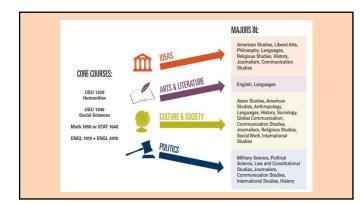
| Learning Outcomes | Prior Learning | Courses | Other Required Courses, Recommended Electives | Activities and Experience That Provide Support | Work-Based Learning Experiences | Certifications and Licensures | Possible Careers | Learner Identified |
|-----------------------|--|--|---|---|--|--|--|--|
| Learning Outcome 1 | Prior learning that is accepted in relation to specific outcomes | Courses that address specific outcomes | Other courses that support and reinforce specific outcomes | Co-curricular elements that support specific outcomes | Employment and other experiences that reinforce specific outcomes | Possible certifications connected to the outcomes | Possible career paths related to the map | Elements identified by learners as supporting learning outcomes |
| Learning Outcome 2 | | | | | | | | |

VISUALIZE PATHWAYS THROUGH PROGRAMS AND DEGREES

AN EXAMPLE FROM MY OWN COLLEGE









ADDITIONAL RESOURCES

SUBSCRIBE TO FREE NEWSLETTERS FOCUSED ON TEACHING AND LEARNING

SEARCH TERMS:

"NILOA newsletter"

"daily Lumina news"

"AACU weekly liberal education news"



ADDITIONAL RESOURCES

LEARNING OUTCOMES WRITTEN BY FACULTY COLLEAGUES IN THE E.U. AND OTHER REGIONS: http://tuningacademy.org/subject-areas/?lang=en

| T /ning | | 145940 Visitors 296 Publications |
|----------------------------------|---|---------------------------------------|
| | NY. | 126 Countries 235 Posts |
| | | |
| Tuning Academy Projects Research | h Staff Development Publications Journa | d Community News 💥 😇 Enter keywoota 🙆 |
| HOME / SUBJECT AREAS | | |
| Subject Areas | | |
| Bearch autosot area | | |
| | | |
| * | | |
| Agricultural Engineering | Ecology | ICT . |
| Agriculture | Economics | industrial Sector |
| Agronomy | Education/Education Sciences | informatica |
| Architecture | Destrical and Information Engineering | International Relations |
| Art & Design | Engineering | Interpreting and Translation |
| Art History | English Philology | L. |
| | Entrepreneurship | Landscare Architecture |

INSTITUTIONAL PROJECTS TO CONSIDER

NILOA, Excellence in Assessment http://www.learningoutcomesassessment.org/eiadesignat ion.html



Recognizes institutions for their efforts in intentional integration of campuslevel learning outcomes assessment. The focus rests on campus processes and uses of assessment outcomes, rather than on student performance or accomplishment. The EIA designation evaluation process is directly and intentionally built from NILOA's Transparency. Framework.

INSTITUTIONAL PROJECTS TO CONSIDER

AAC&U: VALUE Institute https://www.aacu.org/VALUEInstitute



The VALUE Institute enables any higher education institution, department, program, state, consortium or provider to utilize the VALUE rubrics approach to assessment by collecting and uploading samples of student work to a digital repository and have the work scored by certified VALUE Institute faculty and other educator scorers for external validation of institutional learning assessment.

| FACULTY'S MULT. ROLES | DEMYSTIFY GEN ED | |
|---------------------------------|--------------------------|--|
| INCLUSIVE "EDUCATORS" | CLARIFY INCENTIVES | |
| VALUE RUBRICS | EXTRA/CO-CURRIC ASSESS | |
| TALK W/ GRADUATES' EMPLOYERS | ACTIVE LEARNING OUTCOMES | |
| D Q P | ASSIGNM'T WORKSHOP | |
| STUDENTS' NARRATIVE | INTER-RATER RELIABILITY | |
| CURRICULAR MAPPING | VISUALIZE PATHWAYS | |
| ADDITIONAL RESOURCES | PROJECTS TO CONSIDER | |