Curriculum Mapping: What Great Teachers Need to Know About their Classes and Programs

campuslabs &



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Session Overview:

Review of Relevant Terms

Deep Dive into Curriculum Alignment Curriculum Mapping Activity



Learning Outcomes

Describe two benefits of curriculum alignment

Articulate the basics of creating a curriculum map

Describe two benefits of curriculum alignment for faculty members



Identifying Outcomes
Providing Objectives
Articulating Goals
Developing Plan
Defining Structure



PLAN

Document foundational framework (mission, goals, outcomes, etc.) and make a plan to assess



Collecting Data
Measuring Results
Entering Findings
Gathering Evidence

ACT

Close the loop on impact of actions taken to drive continuous improvement

CONTINUOUS IMPROVEMENT

DO

Gather and document assessment results and evidence

Use of Results
Actions Taken
Closing the Loop
Implementing Change
Adjusting Program



CHECK

Analyze and interpret results; make recommendations for improvement



Evaluating Data
Analyzing Results
Reflecting
Creating Action Plan
Sharing Findings



NILOA Assessment **Transparency** Student Plans Learning Outcomes Descriptive Statements Defines measures Framework · Easily Applicable to all students downloaded Use of Student COMMON TO ALL Assessment Learning Evidence · Clearly worded Resources · Prominently posted Targeted to audience · Updated regularly Provides examples Easily downloaded · Receptive to Describes improvement feedback Defines next steps Evidence of Current Student Learning Assessment · Interpreted results Contextualized to **Activities** institution Presented graphically Defines activities Disseminated

Learning & Program Outcomes



Outcomes Assessment...

Clarifies divisional and departmental "fit" with institutional vision, mission, goals and/or strategic plans

Clarifies to students and other constituents what students can expect to gain and what the program or course will accomplish

Provides different kinds of data and evidence about services—moves beyond satisfaction and tracking use to describing effectiveness

Links Student Affairs and Academic Affairs; links curricular and co-curricular



Program Outcomes

- Program Outcomes should be FOCUSED
- Central to the program
- Essential to how a program functions
- Faculty, Staff and Student Access



Learning Outcomes

- Are student-focused
- Focus on learning resulting from an activity rather than the activity itself
- Reflect the institution's mission and the values it represents
- Align at the course/program, academic program/department, divisional, and institutional levels



Course Learning Outcomes

- Should follow the ABCD Method
 - Audience, Behavior, Condition and Degree
- Include Bloom's Taxonomy
- Encompass the 3 M's
 - Meaningful, Manageable, Measurable



Bloom's Taxonomy

CREATING

Putting information together in an innovative way

EVALUATING

Making judgements based on a set of guidelines

ANALYSING

Breaking the concept into parts and understand how each part is related to one another

APPLYING

Use the knowledge gained in new ways

UNDERSTANDING

Making sense of what you have learned

REMEMBERING

Recalling relevant knowledge from long term memory



Assessing Learning and Program

- Determine your OUTCOMES
- 2 Determine your METHODS

Statements indicating what a participant (usually students) will **know, think, or be able to do** as a result of an event, activity, program, etc.



Review of Important Terms campuslabs* • **

What is a Cohesive Curriculum?



Desired Degree of Learning

Introduced

Reinforced

Mastered

Alternate Levels of Learning

Basic, Intermediate, Advanced

Novice, Intermediate, Mastery

Introduced, Practiced Demonstrated

Emerging, Development, Proficient





What is Curriculum Alignment?



- Alignment involves clarifying the relationship between what students do in their courses and what faculty expect them to learn.
- Faculty frequently identify gaps when they analyze the alignment between curriculum and learning objectives/outcomes.
- This exercise often prompts faculty to make changes to improve student learning opportunities before collecting assessment data.

Why is Curriculum Alignment Important?





"Well-designed curricula are more than collections of independent courses; they are pathways for learning."

(Association of America Colleges and Universities, 2002, p. 30)

Four reasons a systematic approach to curriculum development is essential:

- 1. To ensure continuity of instruction within a school and among schools.
- 2. To ensure progressive skill development among schools through continuity of instruction.
- 3. To maximize the use of student time, avoid unnecessary instructional overlaps, prevents gaps, and thereby minimize boredom and ensure mastery of curriculum.
- 4. To provide a strong barrier against the problem of concentrating on one school or level of schools at the expense of the total system.

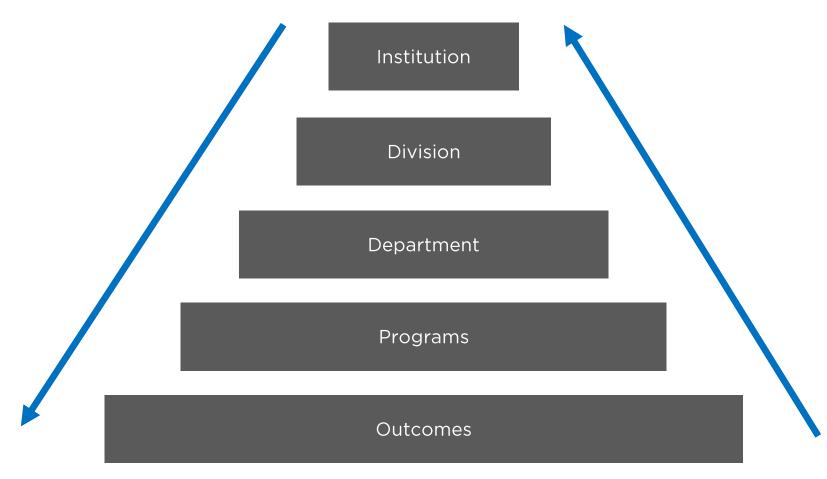
Hoyle, English, and Steffy (1994, p. 84)



What is Curriculum Mapping?



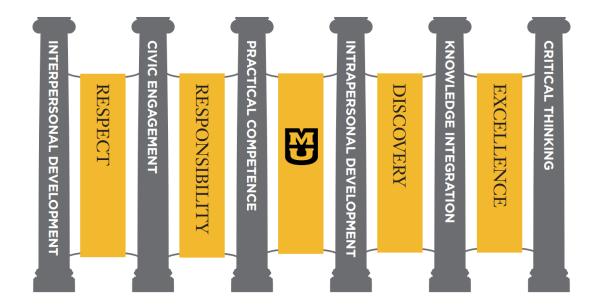
Connecting to the bigger picture





Co-Curricular Learning Outcome Framework:





How is Curriculum Mapping Helpful for Programs?



Three Important Questions when Examining Programs

- 1. In which courses are students assessed on the concepts identified in the student learning outcomes?
- 2. Do students have multiple opportunities to demonstrate their competencies of the concepts?
- 3. Is the assessment distributed throughout the program?



How is Curriculum Mapping Helpful for Faculty Members?



Curriculum Maps as A Part of Faculty Discussions

- 1. Do students receive adequate introduction to, practice in, and reinforcement of skill before expected demonstration of mastery?
- 2. Should any courses/learning outcomes be restructured to improve frequency and depth of practice for students?
- 3. Are learning outcomes addressed in logical order allowing for student progression from introduction to levels of mastery?
- 4. Do all required courses contribute to at least one program level student learning outcomes?

How to Create a Curriculum Map

Examples of Curriculum Mapping



Curriculum Alignment Matrix

Course	Program Objective 1	Program Objective 2	Program Objective 3	Program Objective 4	Program Objective 5	Program Objective 6
100	I					I
120		I				Р
200	Р		Р			Р
204						Р
300	Р		Р			
329	D					Р
400			Р			D
480						
490	D		D		D	D

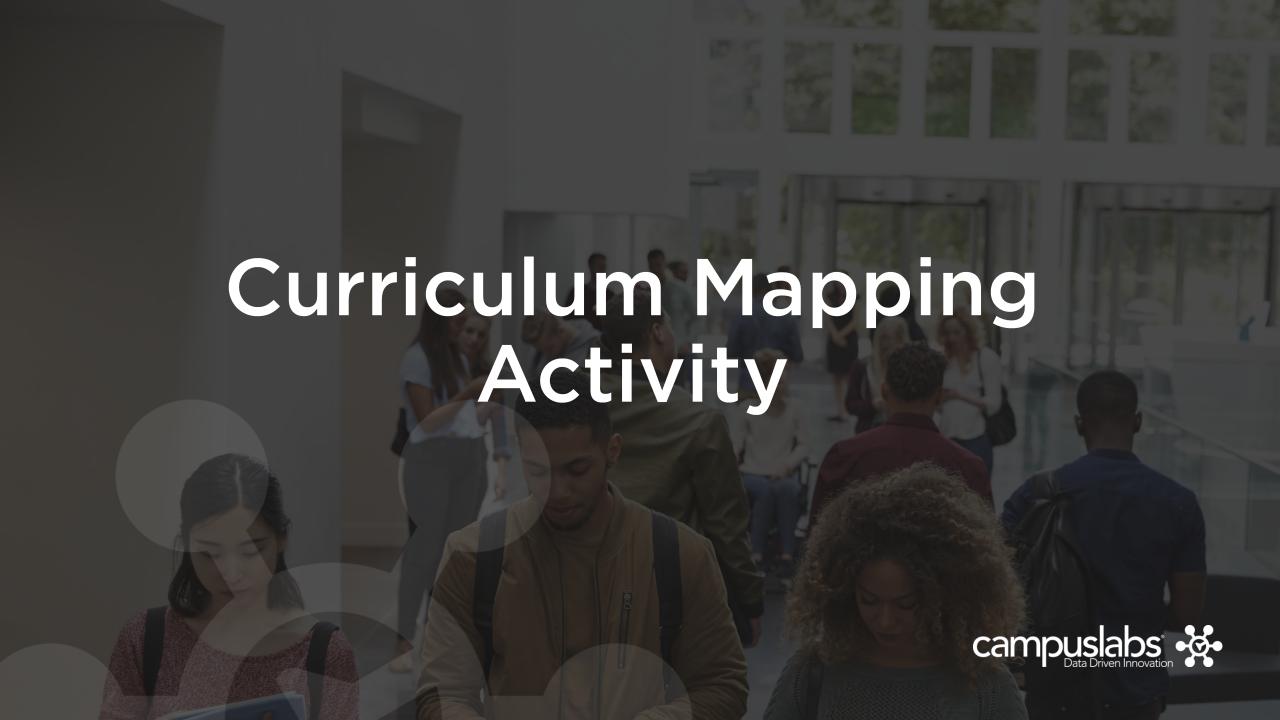
I = Introduced, P = Practiced, D = Demonstrated



Course Alignment Matrix

	Program Objective 1	Program Objective 2	Program Objective 3	Program Objective 4	Program Objective 5
Course Objective 1	В				
Course Objective 2	В	В			
Course Objective 3		В			
Course Objective 4			I		
Course Objective 5			I		
Course Objective 6					
Course Objective 7					

B = Basic, I = Intermediate, A = Advanced



What is the next item to consider when creating a curriculum map?





Assessment Map Curriculum Crosswalk

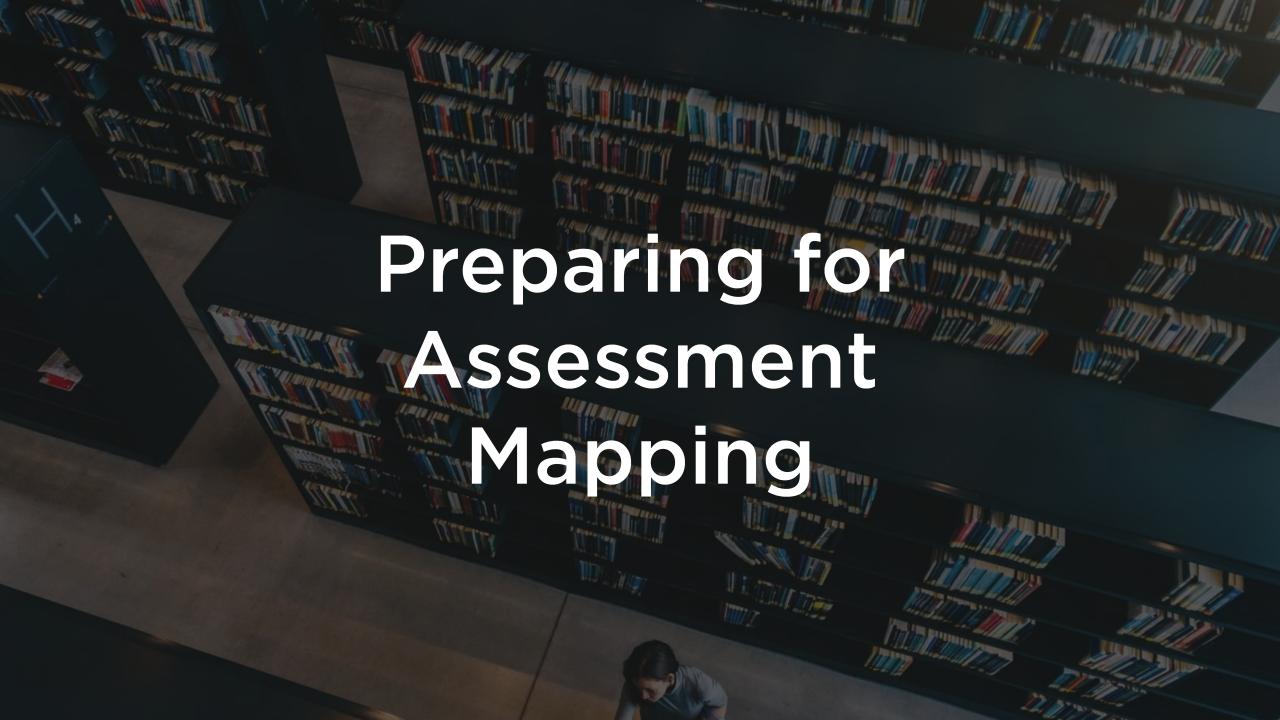
Teacher Leader Standards Specified & Synthesized with Other Internal and State						Rubric for Candidate Assessment			Culm/Comp/Auth Assessment & Applicable Standards						
STANDARD SUBSECTION or INDICATOR LEVEL	KEYPHRASE - CorePhrase (FROM THE STANDARD)	KEY CONCEPT(s) - CoreWord of the STANDARD	SoEL Standards	Mission Student Learning Outcomes	State Educator Standards	1 Needs Improvement	2 Emerging Competence	3 Competence	4 Outstanding	Course 1 - Inquiry Inquiry-based, Engaging Unit of Study	Course 2 - Technology Technology- Enhanced Lesson Plan	Course 3 - Curriculum UbD Curriculum Chart	Course 4 - Instruction Instructional Bank	Course 5 - Assessment Individualized Asseessment Continuum	Course 6 - Research Action Research Proposal
1A - Utilizes group processes to help colleagues work collaboratively to solve problems, make decisions, manage conflict, and promote meaningful change.	work colloboratively to solve problems and make decisions	collaboration	D5 Collaboration	1.2 Character Knowledge	6 Professional Environment	The candidate collaborates with peers in an unplanned and random manner, asking questions or providing input as events arise.		The candidate leads efforts to collaborate meaningfully with peers in a coordinated and pre- planned manner.	The candidate's collaboration efforts yield significant increases in student achievement.	✓					
1B - Models effective skills in listening, presenting ideas, leading discussions, clarifying, mediating, and identifying the needs of self and others in order to advance shared goals and TC-essional fearning to skills to	effective skills in listening, presenting, discussing	communication		1.1 Character Disposition	6 Professional Environment	The candidate's understanding of and effectiveness with communication is developing.	The candidate is recognized as an acceptable or adequate communicator.	The candidate's communication is effective, easily understood and acted upon.	The candidate's communication is not only understood and actionable but also inspirational and motivating.	√	✓				✓
reate trust among colleagues, develop collective wisdom, build ownership and action that supports	facilitation skills to build collective ownership	team building		1.3 Character Skills	6 Professional Environment	The candidate has served on a team.	The candidate actively participates on teams that have some success.	The candidate convenes and leads teams of peers.	The candidate builds and leads teams that accomplish their goals well.			\checkmark	✓		



	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								
SLO 1: Disciplinary knowledge base (models and theories)	Exam Questions		Exam Questions		Exam Questions	Exam Questions	Exam Questions	Capstone Portfolio
SLO 2: Disciplinary methods		Exam Questions		Exam Questions		Exam Questions		Capstone Portfolio
SLO 3: Disciplinary applications	Exam Questions		Exam Questions		Class Project		Term Paper	Capstone Portfolio
Critical Thinking								
SLO 4: Analysis and use of evidence		Term Paper		Lab Paper	Class Presentation		Term Paper	Capstone Portfolio
SLO 5: Evaluation, selection, and use of sources of information	Annotated Bibliography	Term Paper		Lab Paper		Term Paper		Capstone Portfolio
Communication								
SLO 6: Written communication skills	Reflection Essays			Lab Paper		Term Paper	Term Paper	Capstone Portfolio
SLO 7: Oral communication skills			Class Presentation	Poster Session	Class Presentation	Class Presentation		
Integrity / Values								
SLO 8: Disciplinary ethical standards		Reflective Paper		IRB/ACUC Proposal	Reflective Paper			Capstone Portfolio
SLO 9: Academic integrity	Class Assignments & Exams	Exams & Term Paper	Class Exams	Class Assignments & Exams	Class Assignments & Exams	Exams & Term Paper	Exams & Term Paper	Capstone Portfolio

Center for University Teaching, Learning, and Assessment Sample Curriculum Map (Assignments & Embedded Assessments) http://uwf.edu/cutla/ Updated: 24 January 2017





Five questions that can help to promote an intentional mapping effort:

- 1. Purpose: What are we mapping and why? What pieces of the educational environment need to be aligned?
- 2. Scope: What parts of the learning environment are included or left out by this approach?
- 3. Participation: Who should be involved in the conversations?
- 4. Form: How many layers do our maps need to address educational complexity?
- 5. Limitations: What ways of seeing are we excluding in our maps?

(Jankowski & Marshall, 2017)



Best Practices in Alignment

- Focusing on Highly-Valued Outcomes
- Set Priorities as Program
- Collaboration and Autonomy
- Communicate

References

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Sample Curriculum Mapping Tools and Development Resources:

Judith Miller, executive director of assessment from UNF has assembled material related to curriculum mapping. Note item 2. Curriculum Mapping (10/23/2009).

http://www.unf.edu/uploadedFiles/aa/oira/assessment/AssessmentMatters/vol%20 1%20no%202%2010%2023%2009%20AM_2.pdf

Southern Connecticut State University SCSU provides some very developed and evidence-based curriculum mapping documents and resources with program-level examples. http://www.southernct.edu/faculty-staff/faculty-development/curriculummapping.html

University of Hawai'i Describes Curriculum mapping and curriculum matrix: definitions, examples, and best practices. http://manoa.hawaii.edu/assessment/howto/mapping.htm

University of West Florida's Center for University Teaching, Learning and Assessment On this website, information is available about curriculum mapping with an example. http://uwf.edu/offices/cutla/



Questions?

Thank you!

