

# oximesTerminology

# SETTING THE CONTEXT

- ☐ Programs are different
- ☐ Difference between course and program assessment
- ☐ Program assessment model

- No consistent language around the assessment of student learning
- Importance of each institution or program to define the terms that will be used for different concepts in the assessment process
- Terms that will be used in this presentation

#### Terminology Are broad statements, based on needs of stakeholders, Program which describe what the program's graduates are expected Objectives to attain within a few years of graduation. Describe students' skills, knowledge and behaviors that Student they are expected to demonstrate by the time of program Outcomes Measurable performances that students are expected to Performance demonstrate that indicate that they are attaining the indicators student outcomes. One or more processes that identify, collect, and prepare Assessment data to evaluate the attainment of student outcomes Processes used to interpret the data and evidence **Evaluation** accumulated through the assessment process. Determines the extent to which the student outcomes are being attained Using the results of the evaluation process to make Feedback decisions about the quality and efficacy of the learning experience and the assessment processes used.

# Example of Student Outcome with Performance Indicators

Student Outcome: "Students will demonstrate critical thinking skills."

Ask, "What are the observable knowledge, skills, or attributes that we will look for as evidence that the students have critical thinking skills?"

#### Deconstruct the Outcome

#### Review the outcome:

Although the context for the student performance may vary among courses, the outcome is the same.

### **Program provision:**

Program must provide opportunities for students to practice and demonstrate critical thinking skills in a context appropriate to the discipline.

# Developing performance indicators: WHAT performance will indicate that they are attaining the outcome? At what level do you expect them to perform?

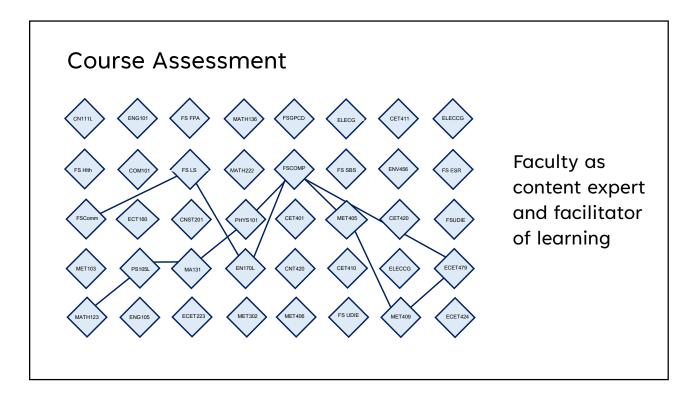
#### **Performance Indicators**

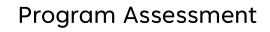
Students will demonstrate critical thinking skills.

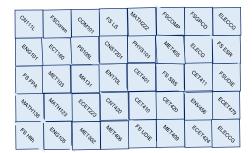
- 1. Explain the issues around the problem
- 2. Analyze comparative perspectives
- 3. Support assumptions when presenting a solution
- 4. Describe the connection between context and perspectives
- 5. Evaluate conclusion and consequences

#### ---- Higher order cognitive skills Lower order cognitive skills -**UNDERSTAND EVALUATE** REMEMBER **APPLY CREATE ANALYZE** Appraise Apply Arrange Compare Analyze Assemble Convert Change Argue Define Break down Construct Assess Describe Compute Calculate Duplicate Compose Choose **Explain** Calculate Identify Categorize Create Extrapolate Classify Contrast Label Debate Design Criticize Generalize Demonstrate Diagram Develop List Defend Interpolate Determine Differentiate Match Formulate Locate Illustrate **Estimate** Discriminate Integrate Name Evaluate Order Paraphrase Modify Distinguish Manage Interpret Operate Review Outline Examine Organize Summarize Practice Judge Recite Experiment Plan Measure Recognize Translate Restructure Infer Prepare Sketch Predict Inventory Prescribe Relate Rank Repeat Solve Relate Produce Rate Use Reproduce Separate Propose Recommend State Subdivide Specify Select Tabulate Test Synthesize Support Tell Write Validate

#### 🗖 Programs are different Capitalize on your distinctiveness • No two programs are the same **SETTING THE** CONTEXT ✓ Mission ✓ Students ☐ Terminology √ Faculty ✓ Infrastructure (facilities, technology, policies, institutional support) ☐ Difference between course and program ✓ Constituents assessment • Learning outcomes can be the same, but each ☐ Program assessment model program determines student performances that indicate attainment of the outcomes.



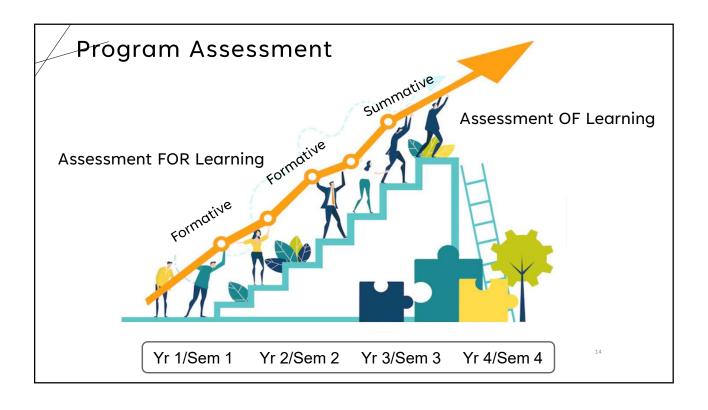


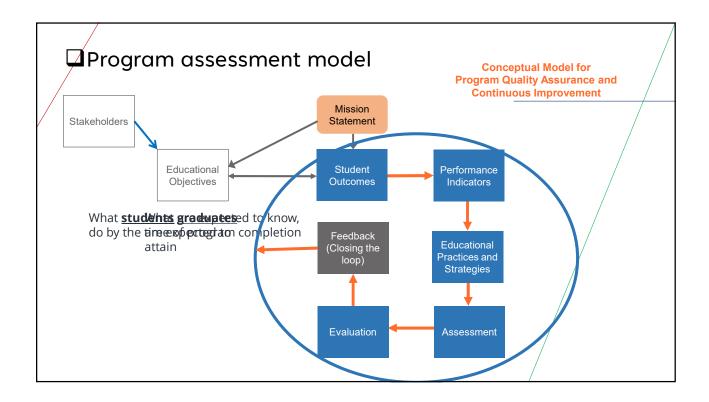


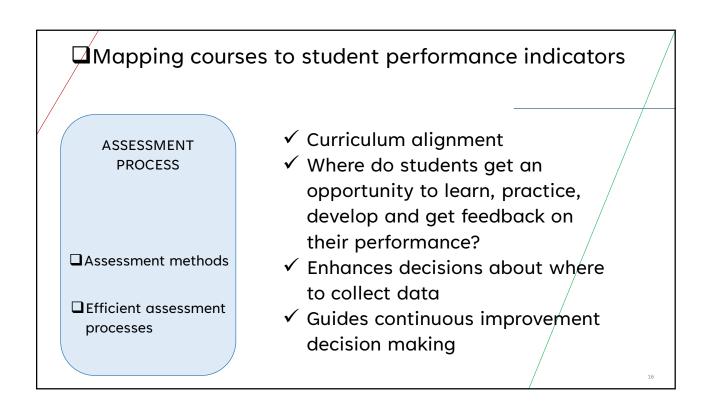
Faculty as a member of a learning community

## Focus is on the Program

- ✓ Program assessment focuses on the program, not individual courses.
- Program assessment focuses on program, not individual faculty members.
- Program assessment focuses on cohort of students, not individual students.







Mapping cor	ırs	es	to	stu	ıde	nt	pe	rfo	rm	an	ce s=	inc Semi	dico nar; C	oto	rs oston	e
		First	Year			Secon	d Year			Third			, ,	Fourt		
	BUS 100	BUS 120	BUS 132	BUS 221	BUS 222	BUS 230	BUS 272S	BUS 273	BUS 292	BUS 325	BUS 327	BUS 421	BUS 423S	BUS 424	BUS 491C	BUS 492C
CRITICAL THINKING			l													
Explain the issues around the business problem	х			Х		х		Х	Х	Х	Х	х	х	Х	Х	х
Analyze comparative business perspectives	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
Support assumptions when presenting a business solution	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
Demonstrate understanding of the connection between context and business perspectives				х			х			х			х		х	х
Evaluate conclusion and consequences				Х			Х			Х			Х		Х	Х
FUNCTION EFFECTIVELY ON A TEAM																
Participate in the establishment of goals and workplan of the team.		х			х			х				х			х	х
Contribute to the development of a collaborative team environment.		х			х			х				х			х	х
Encourage an inclusive team environment.		х			х			х				х			х	х
Exhibit dependability in the achievement of the team's goals.		х			х			х				х			х	х
COMMUNICATE EFFECTIVELY IN WRITING																
Provide supporting details which enhances the quality of the report	х		х		х			х		х	х	х	х		х	х
Use logical organizational pattern which enhances understanding	х		х		х			х		х	х	х	х		х	х
Use language which appropriate to audience analysis	Х									Х		Х	Х		Х	х
Apply the rules of standard English	Х		Х		Х			Х		Х	Х	Х	Х		Х	Х
Use graphics which enhance audience understanding	х				Х			х		Х	Ī		Х			Х

											S=5	Semi	nar; C	:=Car	oston	е
		First	Year			Sopho	more			Jun					nior	
	BUS 100	BUS 120	BUS 132	BUS 221	BUS 222	BUS 230	BUS 272S	BUS 273	BUS 292	BUS 325	BUS 327	BUS 421	BUS 423S	BUS 424	BUS 491C	BUS 492C
CRITICAL THINKING																
Explain the issues around the business problem	х			X(F)		Х		х	х	X(F)	х	Х	X(S)	х	х	Х
Analyze comparative business perspectives	х	х	х	X(F)	х	х	х	х	х	X(F)	х	х	X(S)	х	х	х
Support assumptions when presenting a business solution	х	х	х	X(F)	х	х	х	х	х	X(F)	х	х	X(S)	х	х	Х
Demonstrate understanding of the connection between context and business perspectives				X(F)			х			X(F)			X(S)		х	х
Evaluate conclusion and consequences				X(F)			х			X(F)			X(S)		х	Х
FUNCTION EFFECTIVELY ON A TEAM																
Participate in the establishment of goals and workplan of the team.		X(F)			х			X(F)				х			х	X(S)
Contribute to the development of a collaborative team environment.		X(F)			х			X(F)				х			х	X(S)
Encourage an inclusive team environment.		X(F)			х			X(F)				х			Х	X(S)
Exhibit dependability in the achievement of the team's goals.		X(F)			х			X(F)				х			х	X(S)
COMMUNICATE EFFECTIVELY IN WRITING																
Provide supporting details which enhances the quality of the report	X(F)		х		х			х		X(F)	х	х	X(S)		х	х
Use logical organizational pattern which enhances understanding	X(F)		х		х			Х		X(F)	Х	х	X(S)		х	х
Use language which appropriate to audience analysis	X(F)									X(F)		х	X(S)		х	Х
Apply the rules of standard English	X(F)		Х		х			Х		X(F)	Х	Х	X(S)		Х	Х
Use graphics which enhance audience understanding	X(F)				х			х		X(F)			X(S)			х

		CATEGORIES OF METHODS	
Strength of evidence of learning	Indiract	I ONCARVATION OF CHIIDANT KNOWIADDA OF CKIIIC	Indirect – ascertains the opinion or self-report of the extent or value of learning

#### **Direct Methods:**

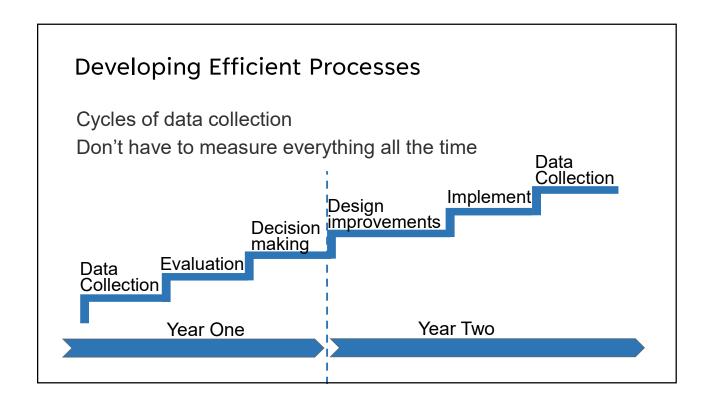
- ✓ Standardized tests
- ✓ Faculty or Program developed exams or assignments
- ✓ Portfolios
- ✓ Performance appraisal
- ✓ Oral examination
- ✓ Questionnaires

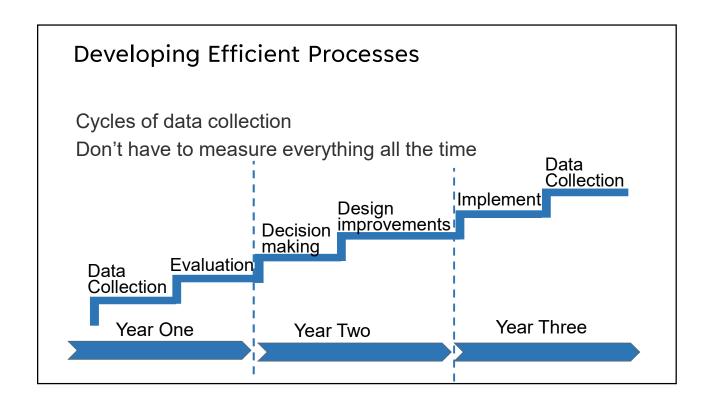
#### **Indirect Methods:**

- ✓ Questionnaires
- ✓ Interviews
- √ Focus groups

			CAT	EGO	RIE	S OF	ME	ТНО	DS								
Strength of evidence of learning	Direct/ Indirect	Direct – observa against	ation o	f stude	ent kno	owledg	e or s	kills		Indirec the ext					n or se	lf-repo	ort of
When the method is implemented	Formative/ Summative	Formati progres purpose to be in course/	s thro e is to prove	ugh th identif d befo	e cour y area	se/cur s of le	riculur arning	n; the	eed	Summa prograd studen achieva study	m; the t learn	purpo ing; de	se of vesigne	which i	is to do	ocume stude	ent
					1	1	<u></u>										
		CSCI 1301	CSCI 2200	CSCI 1302	CSCI 2611	CSCI 2210	CSCI 1730	CSCI 2200	CSCI 2720	CSCI 2920	CSCI 3270	CSCI 4270	CSCI 4210	CSCI 4230	CSCI 4235	CSCI 4910	CSCI 4911
WORK EFFECTIVELY ON A TEAM	Л							-									
Participates in the establishment of general team.	goals and workplan of the					х			х					х			х
Contributes to the development of a environment.	collaborative team					х			х					х			х
Encourages an inclusive team environment	onment.					х			х					х			х
Exhibits dependability in the achieve	ement of the team's goals.					х			х					х			х

		CATEGORIES OF METHODS	
Strength of evidence of learning	Direct/ Indirect	Direct – provides for the direct examination or observation of student knowledge or skills against measurable student outcomes	Indirect – ascertains the opinion or self-report of the extent or value of learning
When the method is implemented	Formative/ Summative	Formative – those undertaken as students progress through the course/curriculum; the purpose is to identify areas of learning that need to be improved before the end of the course/program	Summative – obtained at the end of a course or program; the purpose of which is to document student learning; designed to capture students' achievement at the end of their program of study
How the method is integrated into the course	Embedded/ Add-on	Embedded – program assessments that are taken as a part of the course work	Add-on assessments are those that are in addition to course requirements
>>0			





	2-yr	Asses	sment	Cycle	
AY 2019	AY 2020	AY 2021	AY 2022	AY 2023	AY 2024
A	E/Act	А	E/Act	А	E/Act
	Α	E/Act	Α	E/Act	А
		А	E/Act	A	E/Act
А	E/Act	Α	E/Act	Α	E/Act
	А	E/Act	А	E/Act	А
	2019 A	AY 2019 2020  A E/Act  A E/Act	AY AY 2019 2020 2021  A E/Act A  A E/Act A  A E/Act A	AY 2019 2020 2021 2022  A E/Act A E/Act A  A E/Act A  A E/Act A  E/Act A  E/Act	2019       2020       2021       2022       2023         A       E/Act       A       E/Act       A         A       E/Act       A       E/Act       A         A       E/Act       A       E/Act       A

			Мо	dif	ied	3-7	/r C	ycle	е		
STUDENT OUTCOMES	AY 2019		Y 20	-	Y 21	A 20	Y 22	-	Y 23	A 20	Y 24
Solve complex problems	А	ı	E	А	ct	ı	4	ı	E	A	ct
Work effectively on a team		,	4	E	Act	ļ	4	Е	Act	,	4
Communicate effectively in writing				ı	A	ı	E	А	ct	ļ	4
Demonstrate critical thinking	А	Е	Act	,	4	Ε	Act	,	4	Е	Act
Demonstrate ethical decision making		,	Δ.	ı	E	A	ct	,	Δ.	ı	E
	A= As	ses	s; E:	= E\	/alu	ate;	Act	t= A	ctio	n	



EVALUATION AND QUALITY ENHANCEMENT

☐ Decision-making for quality enhancement

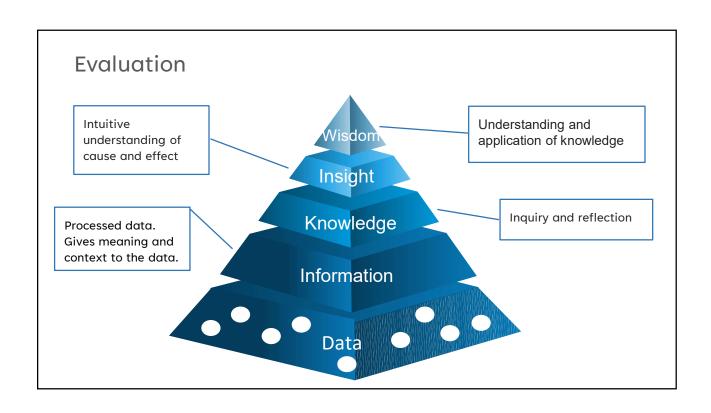


- ✓ Evaluation is a <u>data-informed</u>, not <u>data-driven</u>, process
- ✓ Data are necessary but not sufficient

# **Engagement in the Program Evaluation Process**

- ✓ Who reviews the assessment results?
- ✓ Who makes the recommendations for actions for improvement (both process and learning)?
- ✓ Who implements actions?





#### Examples of Input to the Program Evaluation Process

#### Formative

Direct assessments:

- ✓ Faculty assessments
- ✓ Peer assessments



#### Summative

Direct assessments:

- √ Faculty assessments
- ✓ Peer assessments

#### Indirect data:

- ✓ Student exit questionnaire
- ✓ Self-evaluations (rubric)

#### Indirect assessments:

- ✓ Student exit questionnaire
- ✓ Self-evaluations (rubric)

Other: Trend data, Curriculum Map, Course materials, Samples of tests/exams, Assignments, Student work, Faculty observations/wisdom

# Decision-making for quality enhancement Consider actions

- <u>Students</u> diversity of pedagogy, provide feedback, make outcomes explicit
- <u>Faculty</u> professional development in pedagogy, assessment of learning
- Course integrate changes in topics/structure
- <u>Curriculum</u> modifications to course sequence, add/revise modules
- Assessment processes modify assessments process; methods and/or context



Evaluation: Weigh actions, consider alternatives.

## Summary – Program Assessment

- ✓ Importance of clarity of purpose focus on program not individual students/courses/faculty members
- Program assessment should not isolate faculty but respect the use of their time
- ✓ Collective wisdom of faculty and data-informed decision-making

"You don't have to be bad to get better!"

aluation Checklist	Continue what we are doing	Modify what we are doing	Stop what we are doing	Need to begin doing
Faculty who contribute to the learning outcome are involved in the evaluation and action plans related to the outcome				
Data are analyzed at the performance indicator level				
Data available for review are:				
Formative data				
Summative data				
Trend data				
Curriculum map				
Other:				
Actions considered:	Yes	No		
Student learning principles				
Faculty support/development				
Course modification				
Curriculum modifications				
Pedagogy/Andragogy				
Assessment processes				

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