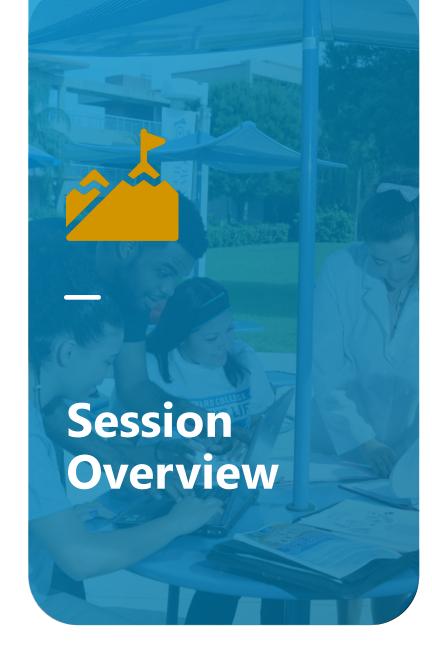
Institutional Effectiveness Outcomes Assessment

Curriculum Mapping

Dr. Kandeice Gibson Institutional Planning and Effectiveness Institutional Effectiveness



Topics:

- Curriculum Effectiveness
- Learning Outcome Alignment
- What is Curriculum Map?
- Curriculum Mapping Principles and Process
- Evaluating the Curriculum Map
- IE Curriculum Map Template Overview
- Guest Speakers

Curriculum Effectiveness

According to Linda Suskie, a great curriculum:

Treats a learning outcome as a *promise*.

Is *responsive* to the needs of students, employers, and society.

Gives students ample, *diverse opportunities* to achieve core learning outcomes.

Is consistent across venues and modalities.

Is greater than the sum of its parts.

Concludes with an integrative, synthesizing *capstone experience*.

Is focused and simple.

Have appropriate *progressive rigor*.

Uses *research-informed* strategies to help students learn and succeed.

A collection of courses is not a program and, conversely, a program is more than a collection of courses. A true program has both coherence and rigor.

Linda Suskie, Author and Higher
 Education Assessment Consultant

Learning Outcome Alignment



While 77% report that their institutions are currently involved in curriculum mapping of some kind, only 50% indicate that all programs have learning outcomes and that those outcomes align throughout the institution.

— Jankowski, Timmer, Kinzie, & Kuh.

PLAN

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What is a Curriculum Map?

			Ŵ						
Program Outcomes	Standards	Competencies	ABC 1000	ABC 1100	XYZ 1200	ABC 1300	XYZ 1400	ABC 1500	ABC 2000
Outcome 1	Standard 1	Competency 1, 5	I		R			м	
	Standard 7								М
Outcome 2	Standard 3		I	R	R	R	М		
	Standard 5	Competency 3		I					
Outcome 3	Standard 8	Competency 2			I				
Outcome 4	Standard 2	Competency 4				R		М	
	Standard 6		I	I	I	R	R		Μ
Outcome 5	Standard 4			I	R	М			

Dashboard

A single-screen visualization that shows:

- The program learning outcomes
- The *relationship* between the courses and the program learning outcomes
- How learning is *integrated* and progresses across the curriculum
- The *alignment* of varying standards and institutional outcomes to the key learning outcomes

What is a Curriculum Map?

Communication Tool

Helps to facilitate conversations about how the curriculum ensures student learning and preparation for post-secondary success.

Identify **gaps** in diverse and progressive learning opportunities Address the *implications* of curricular changes to the key outcomes and standards

Develop *shared* knowledge and understanding of the students' learning needs for increased responsiveness

"Mapping opens up discussions about what outcomes mean, how they manifest in the curriculum, and how different courses foster shared learning outcomes."

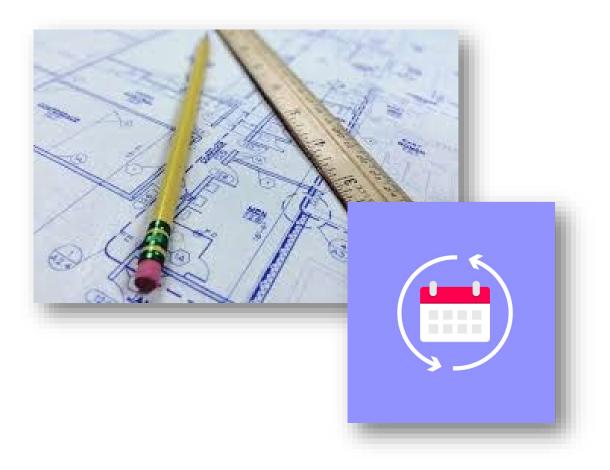
---- National Institute for Learning Outcomes Assessment (NILOA)

What is a Curriculum Map?

Planning Tool

Blueprint for program learning assessment.

- Summarizes where learning outcomes are mastered
- Identifies what learning outcomes have been *assessed*
- Can be used to create a rotational assessment cycle
- Provides an opportunity to build *coherence* and ensure intentional planning for student learning



Curriculum Mapping Principles

Electives

Ê,

Course Options

Mapped Courses

Elective courses are not included in a program curriculum map.

A group of courses can be listed together if there is a shared learning outcome. Otherwise, they are treated as electives. Course should only be mapped to a specific learning outcome if a significant part of the course is based on progress toward achieving the program learning outcome.

Use Codes

Use codes to indicate the level of learning is achieved in each Mapped Course for each program learning outcome.

- Linda Suskie, Author and Higher Education Assessment Consultant

Evaluating the Curriculum Map

Across the program courses, are all PSLOs/Standards addressed in a logical order?

Do all the key/core courses address at least one outcome?

Do multiple courses address the same outcomes, at the same levels?

Do some outcomes get more coverage than others?

Are all outcomes first introduced and then reinforced?

Are students expected to show high levels of learning too early?

Do students get practice on all the outcomes before being assessed, e.g., in the capstone?

How do assignments elicit demonstrations of particular learning outcomes? How are we assessing it and where?

How do individual faculty/courses each contribute to the collective enterprise of helping students to demonstrate outcomes?

Remember that mapping is as much about the process of seeing relationships as it is about completing a spreadsheet or any other kind of product.

 National Institute for Learning Outcomes Assessment

Work-in Progress Example: Business Analytics, A.S. [Professor Dina Durand, Program Manager]

Detailed Map (Level 1)

						Insti	tutior	al Effe	ctiveness	Curriculum	1 Manni	ng													_
Program-Level				UNDAT		CORNE						COURSE	ES		CAPSTO		OTHE	R GEM	VERAL E	DUCA	TION	/ELEC	TIVES	6	
Student Learning Outcomes (PSLOs)	FLDOE CTE Standards	Competency Mapping	1011	1011	2021	ACG2001 APA1111C	ECO 2013	ECO 2023	OST2335 / ENC1102	CGS1510 C/ OST2835	MKA 2701C	ISM 2200C	MAR 2644C	QMB 2100	N/A	ENC 1101			SPC10 SPC16	08 1	Sen Ed um.	Elect ive	Elect ive	: Ge Ec Sci	
			T3	T5	T8	T2	T4	T6	T7	T4	T6	17	T8	T9	N/A	T1	T1	T2	T3		T5	T9	T10	T1	0
Financial Decision Making: Graduates will be able to	01.0 Prepare and use financial information about business organizations to support decision making. 07.0 Evaluate business and	Critical Thinking Critical				I																			
	financial information to support	Thinking	1		R		1	Т	R		M	R	M	R											
Querying Data: Graduates will be able to design and build business applications using database	02.0 Manage business information using appropriate software. 06.0 Design and build business applications using database	Critical Thinking, Information Information Literacy			R					R	R	M	м												
management systems.	management systems.	Likerady																							
Bata Requirements and Parameters: Graduates will be able to identify data requirements and	systems and requirements analysis. This description should identify the project goal, data storage, movement, security, quality, usage, and functional				R						I	м	м												
Analytics Reporting: Graduates will identify uses for reports and visual presentation of data, including forms, charts, graphs, wikis	05.0 Describe how data is organized and examine the business intelligence process used in transforming data to useful information. Demonstrate skills in analyzing data using spreadsheet software	Critical Thinking, Effective Communicatio n			R					I	R	B/M	R/M							N/A					
and other web applications.	09.0 Demonstrate fundamental techniques and methods used in the analysis of computerized business activities, including consideration of information requirements, resources, and its	_								I	м	м	м												
Data Driven Narratives: Students will be able to present and articulate data	04.0 Demonstrate effective business communication and collaboration skills.	Effective Communicatio n							R/M				R												
driven narratives.	04.10 Research and compose a document containing statistical information.	Mathematical & Scientific Reasoning												R											
Legal and Ethical Issues in Business: Students will be able to understand and describe the significance of legal	08.0 Describe the implications of professional values, ethics, and attitudes in business.			I	R																				

Work-in Progress Example: Business Analytics, A.S. [Professor Dina Durand, Program Manager]

Summary Map (Level 2)

												culum Map													
						INDAT				NE CO				COURSE			CAPSTO						ON/ELE		
Program-Level Student Learning Outcomes (PSLOs)		Competency Mapping	IE Cycle Assessed	Assessment Method(s)	MAR 1011 T3	GEB 1011 T5	MAN 2021 T8	ACG2001 APA1111C T2	ECO 2013 T4	ECO 2023 T6		CGS1510C/ OST2835C T4	МКА 2701С Т6	ISM 2200C T7		QMB 2100 T9	N/A	1101 :	STA 2023 T1	1060	SPC10 247 SPC10 T3	Ed	Electi ve T9	Electi ve T10	Gen Ed Scien T10
Financial Decision Making: Graduates wi	01.0, 07.0	Critical Thinking			13	15	R	12	1	I	R		м	R	м	R	NIA			12	13	15	_ 13	110	
Querying Data: Graduates will be able to design and build business applications using database management systems.		Critical Thinking, nformation Literacy	2021-2022 2020-2021 2019-2020	Project			R					IIRIA	R	MIA	м										
Data Hequirements and Parameters: Graduates will be able to identify data requirements and parameters including	03.0	WA	2019-2020	ų uiz			R						I	М/А	м										
Analytics Reporting: Graduates will identify uses for reports and visual presentation of data, including forms, charts, graphs, wikis and other		Critical Thinking, Effective Communication	2021-2022	Project			R					I	R/M	R/M	BIMIA							NłA			
Data Driven Narratives: Students will be able to present and articulate data drive narratives.		Effective Communication, Mathematical & Scientific Reasoning	2018-2019	Project							B/M				R	R									
Legal and Ethical Issues in Business: Students will be able to understand and describe the significance of legal and ethical issues in a business environment.	08.0	WA	2020-2021	Quiz		I	R																		

Work-in Progress Example: Health Information Technology, A.S. [Dr. Nora Powell, Dean]

Detailed Map (Level 1)

									Instit	tutio	nal Ff	fectiv	/enes	s Cur	riculu	m Ma	anning	,										
								NDAT							OMPE			CLIN	ICAL	CAPST							TIVES	Certifications
PSLOs	CAHIIM Domains	FLDOE CTE Standards	Competency Mapping	HIM 100	HIM 126			HIM 243				HIM 250			HIM 223			HI M 1800	HIM 2810	HIM 2930	ENC 1101	MG F	i HSC				PHI 260	CCA; RHIT
				T2		72 T2	T3	T3	75 T	721 T5	20J	Z30	T2	T3	T3	T5	T6	T4	Z010	2330 T6							T4	N/A
Health Information Communication: Graduates will	Domain 1 Foundational Concepts	Standard 1Demonstrate an Inderstanding of healthcare organizations and health	Diversity (Global Self Awareness)	ı		·	I					ı						R	м									
competently communicate understanding of the Health Record		Standard 6 Demonstrate an Inderstanding of Health Information Fechnology.		ı	ı	I	Т	•	ı	I	I	ı	R	R	R	R	R	R	м									
Management process.	Domain 2 Informatics, Analytics, and Data Use	Standard 3 Explore health nformatics as an allied health		Т						Т	Т							R	м									
Project Management:		Standard 5 Identify the functions of health record.		Т			Т		Т					R			R	R	м									
Graduates will be able to understand the EHR (Electronic Health Record) Project Management process	Domain 3 Data Structure, Content, and Information Governance	Standard 4 Demonstrate an Inderstanding of health data concepts.	Critical Thinking, Information Literacy, Diversity	ı			ı			ı				R				R	м									
Management: Graduates will be able to recognize the steps in the revenue process	Domain 4 Revenue Oycle Management	standard to Apply policies, egulations, and standards to the nanagement of information usociated with treatment, payment, and operations (TPO).		ı	•				•				R	R	R	R		R	м									
from initial encounter with the healthcare system to their final payment of balance.		Standard 7 Discuss classification systems, clinical vocabularies and erminologies.	Critical Thinking, Information Literacy	ı	ı			ı					R	R	R	R		R	м									
Health Information Management Proficiency: Graduates will be able to demonstrate an	Domain 5 Health Law and Compliance	Standard 10 Apply policies, egulations, and standards to the nanagement of information ussociated with treatment, payment, und operations (TPO).	Critical Thinking, Effective Teamwork, Information Literacy	ı	ı	I	ı		ı		ı	ı	R		R	R		R	м						N/A			N/A
understanding of health information technology, including knowledge of regulations and how to		Standard 3 Demonstrate compliance with laws, regulations, and standards that impact	Critical Thinking, Information Literacy	ı	ı	I	I		ı		I	i	R		R	R		R	м									
use and store health information data for healthcare application.		Standard 8 Evaluate ethical issues n Health Information Professions.	Critical Thinking, Effective Communication	Т	ı	I			I									R	м									
	Domain 6 Information Protection: Access, Use, Disclosure, Privacy, and Security	Standard 11 Demonstrate computer (nowledge and skills.	Critical Thinking, Effective Teamwork, Information Literacy								I	I		R			R	R	м									
Health Information Teamwork: Graduate: will be able to demonstrate leadership and teamwork skills	Domain 7 Organizational Management and Leadership	Standard 12 Demonstrate amployability skills.	Critical Thinking, Effective Teamwork, Information Literacy			I												R	м									
needed to accomplish team goals and objectives for health information management procedures.		Standard 2 Demonstrate the ability to communicate and use nterpersonal skills effectively.	Effective Communication	ı								ı						R	м									

Work-in Progress Example: Health Information Technology, A.S. [Dr. Nora Powell, Dean]

Summary Map (Level 2)

						_			stitut					Curric	ulum	Map	ping															
Program-Level Student				1					C FOU								OMPE				IICAL	CAPST					L EDUC					Certifications
Learning Outcomes (PSLOs)	CAHIIM Domains	FLDOE CTE Standards	Competency Mapping	IE Cycle Assessed	Assessmen Method(s)	HIM 100 T2	HIM 126 T2	HIM 251 T2	HIM 1110 T3	HIM 243 T3	HIM 201 T5	HIM 221 T5	HIM 265 T5	HIM 250 T5	HIM 125 T2	HIM 1110 T3	HIM 223 T3	HIM 272 T5	HIM 211 T6	HIM 1800 T4	HIM 2810 T6	HIM 2930 T6	1101	F	100	1531	PSY 201 T2	Scien	1540	260	Spee	CCA; RHIT
Health Information Communication: Graduates will competently communicate understanding of the Health Record Management process.	Domain 1, 2	Standard 1, 3, 6	Diversity (Global Self Awareness)	2018-2019	Exam	•	ı	ı	ı	I	I	ı	ı	ı	R	R	R	R	R/A	R	м											
Project Management: Graduates will be able to Inderstand the EHR (Electronic fealth Record) Project Management process		Standard 4, 5	Critical Thinking, nformation .iteracy, Diversity	2017-2018 2016-2017	Exam	•			ı		I	ı				R			R/A	R	м											
Management: Graduates will be able to recognize the steps in the revenue process from initial encounter with the healthcare system to their final payment of balance.	Donin 4		Effective Feamwork, nformation .iteracy			•	•			ı	ı				R	R	R	R		R	м											
Health Information Management Proficiency: Graduates will be able to demonstrate an understanding of health information technology, including knowledge of regulations and how to use and store health information data for healthcare application.	Domain 5, 6	Standard 8, 9, 10, 11	Critical Thinking, Effective Feamwork, nformation .iteracy	2021-2022 2013-2020	Exam		•	1	I		I		I	I	R	R	R	R	R	R	м	MIA					N/A					N/A
Health Information Teamwork: Graduates will be able to demonstrate leadership and teamwork skills needed to accomplish team goals and objectives for health information management procedures.	Domain 7	Standard 2, 12	Critical Thinking, Effective Feamwork, nformation .iteracy	2021-2022 2019-2020	Project	17.4		I						I						R	м											

Work-in Progress Course-Level Example: Building Construction [Professor Felix Lorenzo, Program Manager]

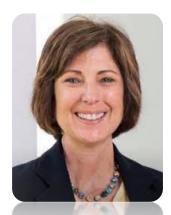
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	BCN 1210	BCN1272	BCN2560	BCN2721C	BCT1706	BCT1770	BCT2040	BCT2720C	Optional	A.S. Equivalent	Totals
otals	12	8	8	23	5	14	6	1			
5.05						~				8.05	1
5.06									Х	8.06	0
5.07									Х	8.07	0
6.0 F	Plan, (coord	inate,	sche	ule a	nd cor	ntrol p	orojec	ts		
6.08								✓		9.08	1
6.15				✓						9.15	1
7.0 L	Jnde	rstand	d vario	ıs bu	ding	, inspe	ction	s and	requi	red testing	
7.01				✓						10.03	1
7.02	✓			✓						10.01,10.02,10.04	2
8.0 [Demo	nstra	te an	fficie	nt un	dersta	nding	g of co	onstru	ction documentation	
8.01				~						12.01	1
8.02				~						12.02	1
8.03				✓						12.03	1
9.0 [Demo	nstra	te apr	opri	te m	ath s <mark>k</mark> i	ills				
9.01		~				~				13.01	2
9.02				~						13.02	1
9.03		✓				✓				13.03	2
9.04						✓				13.04	1
9.05						1				13.05	1
10.0	Demo	nstra	te em	loya	ility	skills (Optio	nal)			
11.01	1			✓						15.01	1
11.02				\checkmark			Ĩ			15.02	1
11.03				~						15.03	1
11.04				✓						15.04	1
11.05				✓						15.05	1
11.05	L										

Example from Professor Lorenzo's In-Depth Map to each specific State Standard.

Work-in Progress Course-Level Example: Building Construction [Professor Felix Lorenzo, Program Manager]

				Insti	tutior	al Eff	ectiv	eness	Curric	ulum N	Aappi	ing							Det	taile	d M	a <mark>p (</mark> I	Leve	11)
									CORE C								CAPSTO	і отн	IER GE	NERA	L EDUO	ATION	VELEC	
Program-Level Student Learning Outcomes (PSLOs)	FLDOE CTE Standards	Competency Mapping	1210	127 2	256 0	204 0	170 6	BCT 177 0	BCN 2721 C	BCT 2720	BCT 174 3	271 0	BCN 2253 C	277 1	276 0	176 7	N/A	ENC 1101	Gen Ed Mat	CGS 1060 C	Gen Ed Spc	Gen Ed Scie	Gen Ed Hum	Gen Ed Soci
			T1	T1	T2	T3	T3	T3	T4	T6	T6	17	T7	T8	T8	T9	N/A	T2	T4	T5	T5	T9	T10	T10
Workplace Soft Skills Graduates will demonstrate	01.0Communicate effectively.	Communication	Т	R	R	R	R	R	R	R	R	R	R	R	R	M		N/A						
professionalism soft skills. Construction Materials	15.0Demonstrate employability skills.	Professionalism												<u> </u>										-
and Methods Graduates will be able to	02.0Identify appropriate grade, quality use, and selection of building materials, and methods of		Т		R	м																		
	06.0Select and maintain construction site tools and equipment.		Т													м								
Estimate	os.opraw, read and interpret drawings and specifications.		Т	Т		R	Т	Т	R	R			R	м										
Graduates will be able to develop a cost estimate for a	05.0Survey and investigate construction sites.											Т	R											
building project.	08.0Understand take off quantities and estimate costs.			Т		Ι		R	R	R		R		м										
	 13.0Demonstrate appropriate math skills. 	Mathematical & Scientific		I				R	R					м										
Construction Management Graduates will demonstrate	09.0Plan, coordinate, schedule and control projects.	Critical Thinking, Mathematical & Scientific					Т		R	R				м		м								
proficiency in construction management.	10.0Understand various tests and inspections.	Problem-Solving	Т						R															
	11.0Select, train and supervise																							
	12.0Demonstrate efficient office and administrative procedures.		Т				R			м			R											
Construction Scheduling Graduates will demonstrate proficiency with construction	07.0Interpret basic designs and apply sound construction principles.	Critical Thinking, Mathematical & Scientific Reasoning,	I		R			R		м				м										
Construction Law and Safety	04.0Apply laws, codes, regulations and contract documents.						Т		I		R			м	R									
Graduates will be able to	14.0Demonstrate an understanding of basic science.	Mathematical & Scientific	Т		R											м								
	16.0Demonstrate an understanding of entrepreneurship.										I													
	17.0Demonstrate the importance of health, safety and environmental management systems in organizations and their importance to organizational performance and regulatory															м								

Curriculum Mapping Champions



Dr. Nora Powell, Dean of Health Science



Professor Felix Lorenzo Program Manager, Building Construction

Why is Curriculum Mapping important to you?

How has Curriculum Mapping informed how you review, design, and assess your program?

How have you shared your Curriculum Map and engaged your faculty/colleagues in the process?

What lessons learned or advice would you give to those who will be engaging in this process soon?

Evaluation Practice

Underwater Basket Weaving, A.S.

		Institution	al Effec	tivenes	s Curri	culum I	Mappin	g								
			FC	DUNDATIC	DN	CORNE	RSTONE			CORE			CAPSTONE	OTH	ER GEN	ERAL
Program-Level Student Learning Outcomes (PSLOs)	FLDOE CTE Standards	Competency Mapping	UBW 1000	UBW 1001	UBW 1002	UBW 1003	UBW 1004	UBW 1009	UBW 1010	UBW 1011	UBW 1012	UBW 1013	UBW 2000	ENC 1101	Gen Ed Math	Gen Ed Sci
			T1	T2	T3	T4	T6	17	T5	T8	T2	T8	T9	T2	T4	T1
Underwater Basket Weaving Techniques Graduates will be	01.0Understand basket making techniques.	Effective Communication	I	R/M			R				М			N/A		
proficient in basket weaving techniques.	4.0Select appropriate designs that are appropriate for underwater weaving.	Critical Thinking			I		R		I	R			М			
Basket Materials Graduates will demonstrate	03.0Identify appropriate grade, quality, use, and selection of basket materials.	Mathematical & Scientific Reasoning	I				R	R	R		М	М	М			
and understanding of appropriate materials for	08.0Maintian appropriate tools and equipment.		I	R								М				
Basket Weaving Teamwork Graduates will demonstrate	02.0Collaborate effectively with a basket weaving team.	Teamwork											I/R/M			
effective teamwork.	06.0Communicate throughout the basket weaving process underwater.	Effective Communication		I	R				М							
	13.0Demonstrate employability skills.			I	R				M							
Safety	05. Swim effectively		Ι	Ι	R		R	R	R	R	M	M	M			
Graduates will demonstrate proficiency with underwater	7.0Understand underwater safety standards and procedures.	Problem-Solving	I	I	I					R/M						

What are some of the gaps in this curriculum map?

Thank you!

For additional questions or assistance, please contact:

Dr. Kandeice Gibson, District Director kgibson@broward.edu

Louise Winter, Coordinator lwinter@broward.edu

> Institutional Effectiveness

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