

3 TOOLS FOR INSTITUTIONAL ASSESSMENT AND PROGRAM-HEALTH PLANNING

Dr. Ada Uche, Jeff Pizek, and Liz Nunez October 2024



CTU started in 1965 as a military-serving institution and still proudly supports the education of veterans and their families

Nearly 80 undergraduate and graduate degree programs and concentrations

An estimated 29,000 students in all our programs, with more than 1,100 faculty.



CAMPUSES

Colorado SpringsOnline

COLLEGES

- Business and Management
- Computer Science, Engineering, and Technology
- Criminal Justice and Health Services
- General Education and Psychology
- Nursing

ASSESSMENT AND INSTITUTIONAL EFFECTIVENESS TEAM

- Assessing Learning Outcomes
- Program Reviews
- Program Health-check
- Institutional Planning
- Mid-year and End of Year Report
- Assessment Committee
- Competency Mapping
- Co-curricular Assessment
- Surveys and Benchmarking
- Faculty Assessment Training

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Introduce three guides that help our Colleges collect and organize their information to make informed decisions and planning. Creates data and terminology standardization within all units.



Competency Maps

The Competency Maps are used to demonstrate alignment to industry and program outcomes.



Course Designing Planning

The Course Design Plan (CDP) is used to review courses and identify curriculum gaps



Program Health Checks

The Program Health Checks use standardized data points to gauge degree programs' strengths and weaknesses.





COMPETENCY MAPS

Presenter: Liz Nunez

COMPETENCY MAPS

- Began as an excel spreadsheet created by the College of Nursing to map their programs for CCNE.
- Worked with all our Colleges and gathered feedback.
- Developed a template to standardize the process of assessing programs and courses.
- Information contained in these templates includes program, concentration, course, and accreditation information.
- Demonstrates how each program aligns to all outcomes (from university to assignment level)
- Allows to standardized nomenclature
- Can customize to address the needs of different colleges or programs
- Colleges use the mapping template to demonstrate how each program outcomes align to course outcomes and then to the assignment used to assess the outcomes.

Program	n: BSPSYC						E	looms Taxonom	ıy	Level		
	Outcomes to Course (KAS)						Core Course	5				
Steps for this sheet: N	Iap Core Courses to PLOs, corresponding ULOs, and Industry (if	BHVS205	BHVS215	BHVS316	BVH5320	BHVS400	BHVS410	PSYC130	PSYC210	PSYC309	PSYC310	PSYC315
required) competencies. Map Concentration courses to the corresponding set of PLOs, CLOs, and Industry (<i>if required</i>) competencies.		1. Explain key leadership theories and practices. 2. Recognize skills related	1. Describe how knowledge of motivation and emotion belos us	1. Explore the interactions between psychology and the many forms of	1. Develop knowledge regarding the fundamental principles of statistics		1. Identify the philosophical and historical foundations of Positivist Psychology	1. Interpret the role of conflict in group dynamics 2. Describe	 Identify key topics in the study of social psychology. Recognize buman 	Demonstrate fluency in researching	organizational behavior and	1. Identify the 1 relationship between the fr functions of the human brain and 2
Category	Competency (Sub-Competency)		hains is				PERFORMAN	7 1145771144	num an			
	 Describe the major concepts theoretical perspectives, empirical findings, and historical trends in psychology. 	к	к	A		A	A	к	к		A	A
	 Use analytical thinking to integrate the concept of the self, social dynamics, and organizational workplace systems. 	к	к	A		A			к			A
PROGRAM	 Establish a personal leadership style, informed by psychological principles, that focuses on effective management and improvement strategies. 	к				A	A	к			A	
LEARNING OUTCOMES	 Employ ethical standards, values and considerations in the theory and practice of psychology. 									A		
	 Communicate effectively as a professional in the field of psychology by developing and articulating ideas in accordance with the responsible use of data and source material 				A					А	A	
	 Demonstrate the value of diversity, equity and inclusion in the theory and practice of psychology. 											



COMPETENCY MAPS COMPONENTS – INDUSTRY TO PROGRAM LEARNING OUTCOMES

completed by:: Approved by:: Industry to Program Learning Outcomes Example Industry to Program Learning Outcomes Industry to Program Learning Outcomes Example Industry to Program Learning Outcomes Industry to Program Learning Outcomes Outcome PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 Steps for this sheet: Maps Program Outcomes and CLO to Industry/ Outcome
Date: Industry Standards: Industry to Program Learning Outcomes Example Industry Example Industry Standards PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 Steps for this sheet: Maps Program Outcomes and CLO to Industry/ Accreditation standards. As required based on accreditation guidelines *Add additional Industry Standards/Accreditation competencies if required for multiple concentrations * Outcome PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 Add additional Industry Standards/Accreditation Verbatim of outcome here Outcome
Industry Standards: Industry to Program Learning Outcomes Example PROGRAM LEARNING OUTCOMES Steps for this sheet: Maps Program Outcomes and CLO to Industry/ Accreditation standards. As required based on accreditation guidelines *Add additional Industry Standards/Accreditation competencies if required for multiple concentrations * Outcome PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 *Add additional Industry Standards/Accreditation competencies if required for multiple concentrations * Outcome
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Industry to Program Learning Outcomes Outcome PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 Steps for this sheet: Maps Program Outcomes and CLO to Industry/ Accreditation standards. As required based on accreditation guidelines *Add additional Industry Standards/Accreditation competencies if required for multiple concentrations * Outcome PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 *Add additional Industry Standards/Accreditation competencies if required for multiple concentrations * Verbatim of outcome here Outcome
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COMPETENCY MAPS COMPONENTS – OUTCOMES TO COURSE (BLOOM'S LEVEL)

(Dutcomes to Course (KAS)	Example			Core (Courses			Concentrat	ion 1	
Steps for this sheet: N	lap Core and Concentration Courses to PLOs,	BUS101	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COL
corresponding ULOs, a	nd Industry (if required) competencies.										
Category	Competency (Sub-Competency)	BUS101									
	PLO 1:	к									
	PLO 2:	к									
PROGRAM	PLO 3:										
LEARNING OUTCOMES	PLO 4:	А									
	PLO 5:										
	PLO 6:	K									
	Count of Competencies Within Course	4	0	0	0	0	0	0	0	0	
Category	Competency (Sub-Competency) CLO 1:										
		К									
CONCENTRATION 1	CLO 2:	к									
< > ••• 2. li	adustry to PLOs 3. Outcomes to Course (KAS) 4.	Outcomes	s to Course	Outcome	5. CO	to Assignr	ments	5. Notes 🚥	+ :	



COMPETENCY MAPS COMPONENTS – OUTCOMES TO COURSE OUTCOMES

	Outcomes to Course Outcomes (CO)	Example			Core C	ourses			Concentrat	ion 1
corresponding ULOs Mapping core and cc	Map Core and Concentration Courses to PLOs, CLOs &	BUS101 Course Learning Outcome 1 Course Learning Outcome 2 Course Learning Outcome 3 Course Learning Outcome 4 Course Learning Outcome 5	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
Category	Competency (Sub-Competency)	BUS101								
	PLO 1:	2, 5,								
	PLO 2:	1, 5								
PROGRAM LEARNING	PLO 3:	2, 3, 4								
OUTCOMES	PLO 4:	4, 5								
	PLO 5:	1, 2, 3								
	PLO 6:	3, 5								
Category	Competency (Sub-Competency)									
	CLO 1:	5								
< > ••• 2.	Industry to PLOs 3. Outcomes to Course (KAS)	4. Outcomes to	Course	Outcome	es 5. (CO to Ass	signment	s 6. N	lotes ***	+ : •



COMPETENCY MAPS COMPONENTS – COURSE OUTCOMES TO ASSIGNMENTS

Outcomes to Course (Outcomes)														
Steps for this sheet: Identify the course learning of	outcome(s)													
covered in each assignment.										**Delete	if not app	olicable		
(Hidden Cells identify program learning outcome covered in each assignment. To use only if required by program/accrediation standards)				Un	it 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6**	Unit 7**	Unit 8**	Unit 9**	Unit 10**
				PLO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
BUS101	BLOOMs Level	K,A,S Level for Course	List Individual Assignment											
Course Learning Outcome (CO) 1	1		DB			1	2,4	3	1,3,4		1	2,4	3	1,3,4
Course Learning Outcome (CO) 2	1	K	Intellipath		1	1	2,4	3		1	1	2,4	3	
Course Learning Outcome (CO) 3	2	ĸ	Individual Project			1			1,2,3,4		1			1,2,3,4
Course Learning Outcome (CO) 4	3													
Course Name	Course Code	K,A,S Level for Course	List Individual Assignment											
Course Learning Outcome 1	List Blooms Level		Assignment											
Course Learning Outcome 2	List Blooms Level		Assignment											
Course Learning Outcome 3	List Blooms Level		Assignment											
Course Learning Outcome 4	List Blooms Level		Assignment											
Course Learning Outcome 5	List Blooms Level		Assignment											
Course Learning Outcome 6	List Blooms Level		Assignment											
Course Learning Outcome 7	List Blooms Level		Assignment											
Course Learning Outcome 8	List Blooms Level		Assignment											
Course Learning Outcome 10	List Blooms Level		Assignment											
Course Name	Course Code	K,A,S Level for Course	List Individual Assignment											
Course Learning Outcome 1	List Blooms Level		Assignment											
Course Learning Outcome 2	List Blooms Level		Assignment											
Course Learning Outcome 3	List Blooms Level		Assignment											
Course Learning Outcome 4	List Blooms Level		Assignment											
Course Learning Outcome 5	List Blooms Level		Assignment											
Course Learning Outcome 6	List Blooms Level		Assignment											
< > ··· 2. Industry to PLOs 3. Ou	itcomes to Cou	rse (KAS) 4. (Outcomes to Course O	utcome	5. C	O to Ass	signment	s 6. N	otes 🚥	+ :		-		



COMPETENCY MAPS COMPONENTS – PROGRAM AND ACCREDITATION NOTES

м	U	L.	U	L		U		
		r Course or Program Revisio					ditation Notes or Recommenda	
Date	Program /Course Name	Scope of Changes	Additional Notes		Date	Accreditation	Recommended Changes	Additional Notes
$\langle \rangle \rightarrow \cdots$	3. Outcomes to Cou	rse (KAS) 4. Outcome	s to Course Outcomes 5.	CO to As	ssignments	6. Notes	+ : (•



COLLABORATING TOWARDS A COMMON GOAL



Took on this project in 2022 and 2023

Once the template was approved, with the collaboration of the colleges, sent template for completion.

> Met with each college to review the template and set deadline expectations to complete.

> > Met with Colleges to review maps, request feedback, and address needs of each college.

> > > Collected all competency maps from the colleges for all programs at the end of 2023.



ROLE OF THE ASSESSMENT TEAM



The Assessment Team keeps a repository of all the current and archived crosswalks.



Shared responsibility with the Colleges to update the competency maps when there are changes to programs or courses.



The Assessment Team meets with the colleges to review the maps and identify any gaps within the programs.



WHAT DID WE LEARN?

- Crosswalks helped Deans, Program Directors, and Faculty members articulate the connection between learning outcomes, programs, courses, and assignments.
- These competencies maps were instrumental in preparation for HLC, ABET, CCNE, and ABCBSP visits that same year.
- Continuously update when any changes occur.
- Supported the changes made to programs and courses:
 - \circ Revised over 100 courses
 - Created about 20 new courses
 - Updated program outcomes
 - Updated program sequences and course offerings





COURSE DESIGN PLANNING

Presenter: Dr. Ada Uche

COURSE DESIGN PLANNING (CDP)

- Designed to ensure all elements of the course are consistently evaluated and applied.
- Defines the goals of the course and clarifies what students will learn and accomplish.
- Used to develop a plan for improvement.
- Shows a visual representation of the course and current alignment (what are we not seeing?)
- Includes a narrative, which ties the pieces of the course and how it fits together.

Course Code:		Course Title
Course Learning Outcomes (COs)		Unit
Write your course outcomes below. Typically there are 3-5 overall outcomes.	Bloom's Level	List the Main Topic
1		
2		Unit 1:
3		
4		Unit 2:
5		
		Unit 3:
6		
		Unit 4:
		Unit 5:
		Unit 5.
		add rows if needed
		adu rows in needed
	Course Learning Outcomes (COs) Write your course outcomes below. Typically there are 3-5 overall outcomes. 1 2 3	Course Learning Outcomes (COS) Write your course outcomes below. Typically there are 3-5 overall outcomes. Bloom's Level 1 2 3 - 4 - 5 -

CDP file embedded in picture. To Open: Right click > Worksheet Object > Open

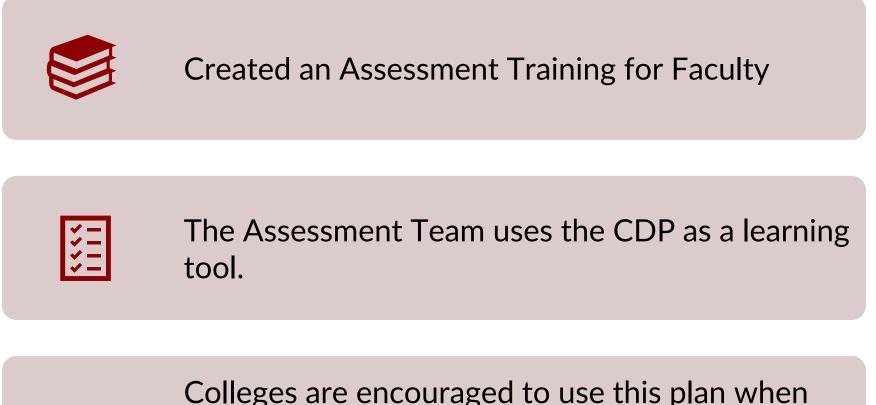


ELEMENTS OF A COURSE DESIGN PLAN

COURSE DESIGN PLAN - Please complete	Course Code:	Course Title:	CDP Prepared by:	Date:
Learning Outcomes (PLO/ULO)	Course Learning Outcomes (COs)	Unit and Main Topics	Method of Assessment OR - highlight if not aligned	Narrative
Add: Program Name	Write your course outcomes below. Typically there are 3-5 overall Bloom's outcomes.	List the Main Topic Vrite your learning objectives for the main topic listed in column F.	Assignment (ie. DB, IP, Intellipath) List the Learning Outcome 1 2 3 4 5 6	
1	1	- Unit 1:		
2	2			
List the learning outcomes for the program, University, or Industry Standards	 The course outcomes set the course expectations and identifies the purpose the course plays in the program. Blooms Levels: Are the outcomes at an appropriate course level? 	he unit topic or unit title conveys what is covered in that unit. The main topics or unit objectives reflect the content covered in each unit. Unit objectives should map to one or more course learning outcomes for assessment.	The assignment assesses the student's understanding of the learning outcome. List which learning outcome(s) are mapped to the assignment and mark with "X" to see if there is enough coverage of learning outcomes.	program. Describe any challenges within the course and how its addressed.



ROLE OF THE ASSESSMENT TEAM





Colleges are encouraged to use this plan when revising a course and working with Instructional Designers.



ASSESSMENT TRAINING

 The Excellence in Teaching (EIT) training 4-week program is currently for Program Directors and Lead Faculty to learn about writing learning outcomes and assessment. Module 1: Applies understanding of the CTU student to the process for developing outcomes supporting a positive student climate.

Module 2: Covers writing learning outcomes that will demonstrate the student's understanding of course objectives.

Module 3: Reviews how to develop effective assessment strategies that align learning outcomes to course assessment.

Module 4: Demonstrates how to effectively integrate tech tools in the classroom as an added value to learner experiences.



WHAT DID WE LEARN?

- Identified a need to learn how to write appropriate learning outcomes.
- EDPs and Lead Faculty are asked to revise or create a new course using this template.
- Discuss the process as a group and what is learned using this template
- Discuss the alignment between learning outcomes, assessments, and instructional strategies.







Presenter: Jeff Pizek

PROGRAM HEALTH CHECKS

New for 2023: Colleges complete an annual summary of common data points, in order to indicate the general "health" of each degree program offered.

Program/Concentration:		Reviewed by:			
Year:					
Data Point	Measurement	Decision (select)	Narrative (explain Decision from column C)	Link to data source	Notes / Instructions
1. Population of program / concentration	2404B (9/3/2024): 2404A (7/23/2024): 2403B (6/11/2024): 2403A (4/30/2024): 2402B (3/19/2024): 2402B (2/6/2024): 2401B (1/2/2024): 2305A (11/14/2023): 2304B (10/3/2023): Avg. of all 9 sessions:			http://tableau.careered.com/#/site/CECInsights andAnalutics/views/CTUExecutive/Manageme ntDashboard/ConcentrationByProgram2:iid=1	 Filter by Concentrations (choose from drop-down menu) Then, average all <u># Students</u> columns shown on the dashboard (9 most recent sessions = past year)
2. Average start	24048 (9/3/2024): 2404A (7/23/2024): 2403B (6/11/2024): 2403A (4/30/2024): 2402B (3/19/2024): 2402A (2/6/2024): 2401B (1/2/2024): 2305A (11/14/2023): 2304B (10/3/2023): Avg. of all 9 sessions:			http://tableau.careered.com/t#site/CECInsights andAnaluticsbiews/CTUExecutiveManageme ntDashboard/ConcentrationByProgram?:iid=1	Filter by Concentrations (choose from drop-down menu) Next, filter by Enrollment Type: <u>Greater Than + New</u> (these are incoming students) Then, average all <u># Students</u> columns shown on the dashboard (9 most recent sessions = past year)
3. Persistence 1 rate	2404A (7/23/2024): 2403B (6/11/2024): 2403A (4/30/2024): 2402B (3/19/2024): 2402B (3/19/2024): 2401B (1/2/2024): 2401B (1/2/2024): 2015A (1/14/20222):			http:#tableau.careared.com/#/site/CECInsights andAnalutics/views/CTUExecutiveManageme ntDashboard/CohortPersistenceBates?iid=J	Filter by Concentrations (choose from drop-down menu) Next, filter out Inst. Cancels (select only <u>Not an Institutional Cancel</u>) Then, average 9 most recent start



Colleges classify each data point (**Satisfactory** / **Unsatisfactory** / **In Progress**) and include narrative to explain that classification.

Data points requested:

- Program population (past year)
- Average number of new starts (past year)
- Persistence rates (past year 2 measurements)
- Retention rates (past year)
- Graduation rates (past year)
- Results from Learning Outcome assessment (most recent)
- Relevant employment data (most recent)
- Market / regulatory trends (most recent)
- Planned curricular changes (next 3 years)



PROGRAM HEALTH CHECKS

To conclude each Health Check, the Colleges select 1 of the following 4 recommendations for the program, based on the data:

- ✓ Continue, no changes
- ✓ Continue, minor changes (less than 25%)
- ✓ Continue, major changes (more than 25%)
- ✓ Recommend stop enroll

Health Checks help CTU Colleges to:

- Ascertain each degree program's current and future state
- Identify unique advantages and challenges
- Document program alignment with current trends and industry standards
- Determine and communicate upcoming plans for revising and developing course curricula



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Maintaining the Health Check template, ensuring it is completed annually for every active degree program, and archiving those documents.



Partnering with the data teams and the Colleges to ensure the completed Health Checks reflect the most relevant and most currently available data.



Summarizing the major findings for University leadership, focusing on major high/lows, trends, and recommendations (e.g., stopping enrollment).



WHAT DID WE LEARN?

Better awareness of our data

Structure, timing of release, and access affect what can be reported, when, and by whom. (*adjusted the template for 2024*)

Evidence for informed change

This data empowers Colleges to make a case for consolidating or discontinuing portions of their program portfolios. (to date, 2 programs recommended for discontinuation in 2023 have ceased new enrollments)

It also identifies opportunities to adjust curricula to incorporate new technologies and soft skills, or to address emerging market trends and updated accreditation requirements.

PROGRAM HEALTH CHECKS





DISCUSSION AND QUESTIONS

- What platforms or tools do you use for mapping?
- What faculty training for writing learning outcomes?
- How do you assess your programs or courses?





Thank You

For Questions or Inquiries Email: ctuassessment@coloradotech.edu

