

This “assessment to go” is intended as **QUICK START** for academic programs working on the assessment section of the Undergraduate Program Review Self-Report Template.

For more detailed information about program outcomes assessment, please see: <http://assessment.ucdavis.edu/> or contact us at ATeam@ucdavis.edu.

Program Learning Outcomes

Questions to assess program learning outcomes (PLOs)

- Do the PLOs describe the essential knowledge, skills, and dispositions expected of graduates of the program?
- Do the PLOs distinguish the program from other programs on campus?
- Do PLOs describe the observable behaviors by which students will demonstrate learning?
- Do the PLOs reflect Bloom’s Revised Taxonomy (http://assessment.ucdavis.edu/local_resources/toolkit/Bloom.pdf)?
- Are the performance criteria explicit and transparent? Are there benchmarks / targets?

For more information about articulating your expectations for student learning, see: <http://assessment.ucdavis.edu/how/plan.html#PlanStep2>.

Curriculum Maps

The analytic process during which faculty examine the alignment between program learning outcomes and curricula is usually called **curriculum mapping**; its end product is a graphic representation called a curriculum map or matrix.

For more information about developing a curriculum map/matrix, see: <http://assessment.ucdavis.edu/how/plan.html#PlanStep3>.

Table 1: Sample program curriculum matrix

Program Learning Outcome (PLO)	Required courses										
	1	2A	8	10	50	97	102	135	152	188	197
PLO 1 (disciplinary knowledge)	I		P		P		P			D	
PLO 2 (disciplinary knowledge)		I		P		P					D
PLO 3 (disciplinary skills)			I		P			P		D	
PLO 4 (communicating in the discipline)		I	P			P			P		D
PLO 5 (think and act like a member of disciplinary community)	I			P			P			D	

I=Introduced; P=Practiced; D=Demonstrated

Table 2: Aligning outcomes to course expectations

When the Learning Outcome (LO) is:	Coursework requires:
<i>introduced (I)</i> , students are introduced to what they will be expected to know and be able to do as a result of the course / program	basic ability to remember and understand
<i>practiced (P)</i> , students have opportunities to consolidate their learning through practice in varying contexts	developing ability to apply and /or analyze
<i>demonstrated (D)</i> , students are expected to demonstrate mastery of the Learning Outcomes (LOs)	an advanced ability to evaluate and /or create

Table 3: Sample curriculum matrix - Courses aligned to desired levels of mastery

	Emerging (I)	Developing (P)	Competent (D)
PLO 1 (disciplinary knowledge)	1, 8	2A, 50, 135	188, 197
PLO 2 (disciplinary knowledge)	1, 2A	2A, 8, 10, 152	188, 197
PLO 3 (disciplinary skills)	2A, 8	50, 97, 102	188, 197
PLO 4 (communicating in the discipline)	10, 50	102, 135	188, 197
PLO 5 (think and act like a member of disciplinary community)	97	102, 135, 152	188, 197

Data Collection

EVIDENCE – TYPES & SOURCES

Direct evidence of learning provides concrete examples of students' ability to perform a particular task or exhibit a particular skill. Examples of direct evidence include:

Pre-/post-tests of students' knowledge or skills; exams and quizzes *aligned to Program Learning Outcome(s)*; written work, research projects, presentations, performances and/or exhibitions; capstone or culminating projects / portfolios.

For more information about developing a data collection plan, see:
<http://assessment.ucdavis.edu/how/inquire.html#InquireStep2>

Indirect evidence of learning provides information from which it is possible to make inferences about student learning. Examples of indirect evidence include:

Items from the University of California Undergraduate Experience Survey and Recent Baccalaureate Recipients (includes post-graduate employment and post-graduate degree program enrollment); transcripts / notes from focus groups and interviews

Data Analysis

EXAMPLE APPROACHES

1. Identify a course or series of courses in which students are expected to demonstrate mastery of one or more of the PLOs. Articulate the expectations for performance (via a collaboratively developed rubric, for example). Sample student work from the selected course(s)—removing personally identifying information! Faculty group reviews student work against rubric; aggregated scores are used for program assessment purposes.
2. Develop a rubric which articulates expectations for learning in a course or series of courses in which students are expected to demonstrate mastery of one or more of the PLOs; instructors use the rubric to assess student work and give feedback to students. Data aligned to PLO criteria are examined in the aggregate at the program level.

For more information about data analysis, see:
<http://assessment.ucdavis.edu/how/interpret.html#AnalyzeStep2>