

# Student Learning Outcomes Notes and Resources

## Bloom's Taxonomy for writing Learning Outcomes

<http://www.gavilan.edu/curriculum/Blooms.htm>

Specific observable verbs are easier to measure.

			Critical Thinking		
Comprehension	Knowledge	Application	Analysis	Synthesis	Evaluation
Recognize	Recall	Interpret	Analyze	Plan	Assess
Explain	Define	Apply	Categorize	Organize	Estimate
Identify	List	Employ	Calculate	Construct	Evaluate
Discuss		Use	Compare	Create	Measure
		Demonstrate	Contrast		
			Examine		

### Gavilan Institutional SLO's

Communication  
Cognition  
Information Competency  
Social Interaction  
Aesthetic Responsiveness  
Personal Development and Responsibility

### Gavilan Student Service Division SLO's

Identify and use appropriate support programs and services  
Create achievable educational goals  
Identify and advocate for their personal and educational needs

### Example Student Service Program Level Learning Outcomes

#### DSPS

Students will demonstrate self-advocacy skills with instructors and staff.

Assessments: 1) Focus group of DSP&S students, 2) Rubric used to score students' advocacy skills during a self-advocacy role play.

#### Financial Aid

Student will demonstrate the ability to successfully apply for financial aid online

Assessments: 1) Count of the number of correctly completed applications, 2) Survey sample of financial aid applicants for self-report of competence in completing the application.

#### Counseling

Students will identify college resources, procedures, and policies that support their academic success.

Assessment: Students will complete the college orientation and score at least an 80% on the orientation quiz.

## **Counseling**

Students will use technology to gather, process, and articulate career options and choices.

Assessments: 1) Students referred to the Eureka system (online/center) will complete the assessments and discuss outcomes with counselor (track completion on SARS), 2) Students enrolled in Guidance 1 will utilize the internet for research and declare a major at the end of the course.

## **Admissions and Records**

Student will demonstrate the ability to add and drop classes online

Assessments: 1) Track percentage of students using web to register, 2) A sample of students in orientation class will show whether they can use the web to register

## **Admissions and Records**

Students will change their address via the world wide web.

Assessment: No transaction requests for address change will be received at the front counter

## **Assessment Methods**

- Tests
  - Locally developed or Standardized
- Performances
  - Recital, Presentation, or Demonstration
- Cumulative
  - Portfolios, Capstone Projects
- Surveys
  - Attitudes and perceptions of students, staff, employers
- Database Tracked Academic Behavior
  - Grades, Graduation, Lab/Service Usage, Persistence
- Embedded Assessment
  - Using grading process to measure ILONarrative
  - Staff and student journals, interviews, focus groups Save work by sampling and using systems and processes you already do.

## **Resources and examples for Learning Outcomes**

- WASC
  - [www.wasc.org](http://www.wasc.org)
- California Assessment Institute
  - <http://cai.cc.ca.us/SLOworkshops/Strand3/index.htm>
- Center for Student Success
  - <http://css.rpgroup.org/index.php>
- City College of San Francisco Office of Research, Planning, and Grants
  - <http://www.ccsf.edu/Offices/administration.html>
- American Association for Higher Education
  - [www.aahe.org/teaching/portfolio\\_db.htm](http://www.aahe.org/teaching/portfolio_db.htm) Palomar College [www.palomar.edu/alp/](http://www.palomar.edu/alp/)

- Sinclair College
  - <http://www.sinclair.edu/about/assessment/>
- Parkland Community College
  - <http://www.parkland.edu/aac/9princ.htm>
- University of Washington SLO guide
  - <http://www.depts.washington.edu/grading/slo/SLO-Home.htm>
- Raymond Walters College
  - [www.rwc.uc.edu/phillips/index\\_assess.html](http://www.rwc.uc.edu/phillips/index_assess.html)
- Alverno College
  - [www.alverno.edu](http://www.alverno.edu)
- Cabrillo College SLO resources
  - <http://www.cabrillo.edu/~tsmall/learneroutcomes.html>
- Maryland Health Education Learning Outcomes and Performance Indicators Grades 9-12
  - <http://www.aacps.org/aacps/boe/INSTR/CURR/health/hsout.html>
- Writing Measurable Learning Outcomes by Osters and Tiu
  - <http://www.tamu.edu/qep/conference/2003/Writing-Measurable-Learning-Outcomes.pdf>
- League of Innovation
  - <http://www.league.org>
- Abraham Baldwin Agricultural College Learning Outcomes
  - <http://www.abac.edu/sacs/>
- University of Nevada at Reno Student Service Learning Outcomes
  - [www.ss.unr.edu/reports/2003assessmentplan.pdf](http://www.ss.unr.edu/reports/2003assessmentplan.pdf)

## Articles

- Barr, R. B. and Tagg, J. 1995. From teaching to learning - a new paradigm for undergraduate education. *Change*. 27.6: 12-26.
- Collins, L. 2002. The proposed accreditation standards: A critique. *Rostrum*. February. 12-15.
- Ewell, P. 2002. A Guide to Using Evidence in the Accreditation Process: A Resource to Support Institutions and Evaluation Teams. Alameda, California: Western Association of Schools and Colleges. [http://www.wascweb.org/senior/Evidence\\_Guide.pdf](http://www.wascweb.org/senior/Evidence_Guide.pdf)
- Filipp, L. 2001. Student Learning Outcomes Assessment Reports. Annapolis, Maryland: Maryland Higher Education Commission. ERIC Document: ED459672.
- Harden, R. M. 2002. Learning outcomes and instructional objectives: is there a difference? *Medical Teacher*. 24.2: 151-155.
- Prideaux, D. 2000. The emperor's new clothes: from objectives to outcomes. *Medical Education*. 34: 168-169.

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