

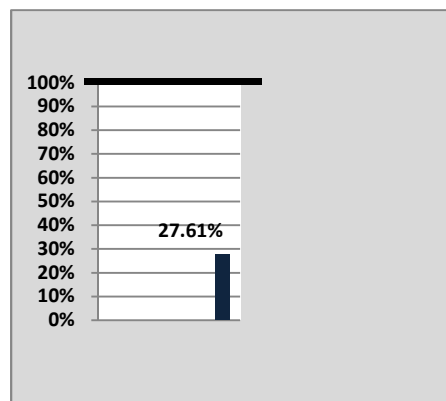
AWC General Education Outcomes
Quantitative Analysis
 Academic Achievement Report
2008-2009

1. Statement of Purpose:	Arizona Western College graduates will demonstrate competency in communication, critical thinking, quantitative analysis and technology applications.
2. Intended Student Learning Outcomes:	Learners will demonstrate the ability to: <ol style="list-style-type: none"> (1) Identify and extract relevant data from given mathematical or contextual situations. (2) Select known models or develop appropriate models that organize data into: <ol style="list-style-type: none"> (a) Tables or spreadsheets (with or without technology); or (b) graphical representations (with or without technology); or (c) symbolic/equation format. (3) Obtain correct mathematical results and state those results with qualifiers. (4) Use the results to: <ol style="list-style-type: none"> (a) determine whether they are realistic in terms of the original situation; or (b) determine whether the mathematical model/representation of data was appropriate; or (c) describe a trend in a table, graph, or formula and make predictions based on trends; or (d) draw qualitative conclusions in written form.
3. Tools for Assessment and Criteria for Success:	<ol style="list-style-type: none"> (1) 100% of the graduates will correctly answer 6 or more questions. (2) Additionally, 75% of participating graduates will correctly answer each multiple-choice question on a locally designed test that addresses all of the target outcomes for quantitative skills.

4. Summary of Data Collected:

A random selection of 326 students were administered the Quantitative Analysis exam.

- (1) 90 students (27.61%) correctly answered 6 or more questions.



(2) Students were able to answer two of the eight multiple-choice questions at or above 75%.

Question #	# of correct responses	
	AY 2008-09	% correct
Q1	254	77.91
Q2	313	96.01
Q3	103	31.59
Q4	198	60.73
Q5	150	46.01
Q6	108	33.12
Q7	155	47.54
Q8	199	61.04

Areas that were met

5. Use of Results:

Data results will be communicated and shared during Fall 2009 Start-up with faculty. An attempt to revise and or use a different tool continues to be discussed among faculty and the LEAP Committee. The use and the results of the ACT/CAAP Math pilot in the embedded math piece will be reviewed and analyzed to determine if this could serve as substitute. The Math department will also review the ACT/CAAP Math assessment tool (exam questions) during 2009-2010.

N=326

