

Assessment of Program Student Learning Objectives (SLOs)
SLO Survey of Degree Applicants
Mathematics AS Degree, Summer 2012 – Spring 2013



	# of Respondents	Agree Strongly	Agree	Disagree	Disagree Strongly	Mean Score
Synthesize ideas expressed in mathematical language by: Demonstrating the ability to understand both written and spoken mathematics	4	75.0%	25.0%	0.0%	0.0%	3.75
Synthesize ideas expressed in mathematical language by: Demonstrating a basic understanding of proof	4	100.0%	0.0%	0.0%	0.0%	4.00
Synthesize ideas expressed in mathematical language by: Communicating arguments clearly	4	100.0%	0.0%	0.0%	0.0%	4.00
Synthesize ideas expressed in mathematical language by: Demonstrating the ability to collaborate in problem solving (i.e. study groups, group projects)	3	33.3%	66.7%	0.0%	0.0%	3.33
Demonstrate analytical thinking by: Identifying what a problem is really asking	4	100.0%	0.0%	0.0%	0.0%	4.00
Demonstrate analytical thinking by: Breaking complex problems into manageable smaller problems	4	75.0%	25.0%	0.0%	0.0%	3.75
Demonstrate analytical thinking by: Identifying the relationships among verbal, symbolic, graphical and numerical representations within the same problem	4	75.0%	25.0%	0.0%	0.0%	3.75
Demonstrate analytical thinking by: Solving non-algorithmic problems	4	75.0%	25.0%	0.0%	0.0%	3.75
Demonstrate resourcefulness in problem solving by: Choosing appropriate methods	4	75.0%	25.0%	0.0%	0.0%	3.75
Demonstrate resourcefulness in problem solving by: Synthesizing appropriate strategies, techniques or information from prerequisite courses	4	75.0%	25.0%	0.0%	0.0%	3.75
Demonstrate resourcefulness in problem solving by: Using alternative representations of mathematical ideas	4	100.0%	0.0%	0.0%	0.0%	4.00
Demonstrate resourcefulness in problem solving by: Recognizing and explaining source of errors and impossible solutions	4	100.0%	0.0%	0.0%	0.0%	4.00
Employ mathematical strategies with confidence	4	100.0%	0.0%	0.0%	0.0%	4.00

Note: "Mean Score" is derived by assigning numeric values to each response (where 1="Disagree Strongly", 2="Disagree", 3="Agree", and 4="Agree Strongly") and calculating the mean of all responses for a given question item.

Narrative Comments

What particular elements of CSM's Mathematics Program helped you the most?

- CSM's mathematics program very effectively connected math to the other sciences and the rest of the world.
- xxxx, xxxx both excellent professors helped me with my mathematics.
- Teachers helped me a lot.

What particular element of CSM's Mathematics could be changed or added to help you?

- I think more staff is needed in MRC.
- More professors like xxxx
- More variety of times offered for higher level math classes.