

Assessment Impact by Course Objectives
Palau Community College
Department (MA) - Mathematics Department

Department (MA) - Mathematics Department

CLO: MA 110 - Survey of Mathematics: CLO 1

Organize, formulate, and apply mathematical problem solving strategies in solving a problem.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

| Means of Assessment | | | |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------|
| Means of Assessment | Expected Student Performance | Notes | Active |
| Organize, formulate, and apply mathematical problem solving strategies in solving a problem. | 70% of the students assessed will perform at the proficiency level. | | Yes |
| Signature assignment: Midterm Exam | | | |

| Results | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|
| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
| Midterm Exam - 12/21/2015 - 100% of students assessed performed at proficiency level. Expected Student Performance Met: Yes Related Documents: CLO 1 Level 3.PDF CLO 1 Level 4.PDF | 12/21/2015 - Instructor should continuously use effective measures of instruction to achieve all learning objectives at proficiency level. | | 2015-2016 (Fall 2015) |
| Midterm Exam - 12/20/2014 - 86% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: MA110 CLO 1-3 MIDTERM EXAM.zip | 12/20/2014 - The criteria of at least 70% was met. No specific action at this time. | | 2014 - 2015 (Fall 2014) |
| Midterm Exam - 12/20/2013 - 53% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: ma 110F13 Clo 1 evidence.zip | 08/18/2014 - Students are weak with problem solving skills. Try to integrate more practice/discussion of problem solving strategies. Lower math like MA 95 and MA 105 should do more problem solving to help the students develop this skill. | | 2013 - 2014 (Fall 2013) |

CLO: MA 110 - Survey of Mathematics: CLO 2

Perform operations and applications of sets, and apply factorials, combinations, and permutations in solving application problems.

CLO Assessment Cycle: 2014-2015 (Fall 2014)**CLO Status:** Active

| Means of Assessment | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------|
| Means of Assessment | Expected Student Performance | Notes | Active |
| Perform operations with sets, calculate factorials, combinations, and permutations, and apply the binomial theorem in solving application problems. | 70% of the students assessed will perform at the proficiency level. | | Yes |
| Signature assignment: Final Exam | | | |

| Results | | | |
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| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
| Final Exam - 12/21/2015 - 100% of students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: CLO 2 Level 3.PDF CLO 2 Level 4.PDF | 12/21/2015 - Instructor should continuously use effective measures of instruction to achieve all learning objectives at proficiency level. | | 2015-2016 (Fall 2015) |
| Final Exam - 12/20/2014 - 93% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: MA110 CLO 1-3 MIDTERM EXAM.zip | 12/20/2014 - The criteria of at least 70% was met. No specific action at this time. | | 2014 - 2015 (Fall 2014) |
| Final Exam - 12/20/2013 - 47% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: MA 110F13 Clo 2 evidence.zip | 08/18/2014 - Some students have weak basic/algebra math skills that cannot be addressed in this class. More than half of the students were pre-service/in-service teachers who had weak math skills. To make matters worse, most of them didn't devote enough time to study for this class because of their work schedule or other reasons. This group of students constantly turned in work after tests for one reason or another which didn't help them prepare for their tests. | | 2013 - 2014 (Fall 2013) |

CLO: MA 110 - Survey of Mathematics: CLO 3

Construct truth tables and prove statements with various logic laws including direct, indirect, or transitive reasoning.

CLO Assessment Cycle: 2014-2015 (Fall 2014)**CLO Status:** Active

| Means of Assessment |
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| Means of Assessment | | | |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------|
| Means of Assessment | Expected Student Performance | Notes | Active |
| Construct truth tables and prove statements with various logic laws including direct, indirect, or transitive reasoning. | 70% of the students assessed will perform at the proficiency level. | | Yes |
| Signature assignment: Midterm Exam | | | |

| Results | | | |
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| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
| Midterm Exam - 12/21/2015 - 100% of students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: CLO 3 Level 3.PDF CLO 3 Level 4.PDF | 12/21/2015 - Instructor should continuously use effective measures of instruction to achieve all learning objectives at proficiency level. | | 2015-2016 (Fall 2015) |
| Midterm Exam - 12/20/2014 - 71% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: MA110 CLO 1-3 MIDTERM EXAM.zip | 04/02/2015 - The criteria of at least 70% was met. No specific action at this time. | | 2014 - 2015 (Fall 2014) |
| Midterm Exam - 12/20/2013 - 26% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: MA 110 F13 Clo 3 evidence.zip | 08/18/2014 - Students weak in problem solving (CLO1) which carries over to logic problems. | | 2013 - 2014 (Fall 2013) |

CLO: MA 110 - Survey of Mathematics: CLO 4

Define the various geometry terminologies and solve triangles with different methods.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

| Means of Assessment | | | |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------|
| Means of Assessment | Expected Student Performance | Notes | Active |
| Define the various geometry terminologies and solve triangles with different methods. | 70% of the students assessed will perform at the proficiency level. | | Yes |
| Signature assignment: Final Exam | | | |

| Results | | | |
|---------------------------|----------------|-----------|-------------------|
| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |

| Results | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|
| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
| Final Exam - 12/21/2015 - 91% of students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: CLO 4 Level 2.PDF CLO 4 Level 3.PDF CLO 4 Level 4.PDF | 12/21/2015 - Instructor should continuously use effective measures of instruction to achieve all learning objectives at proficiency level. | | 2015-2016 (Fall 2015) |
| Final Exam - 12/20/2014 - 43% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: MA110 CLO 4-6 FINAL EXAM.zip | 01/19/2015 - Geometry is weak for students. Need to review/ reinforce the basics. | | 2014 - 2015 (Fall 2014) |
| Final Exam - 12/20/2013 - 32% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: MA 110F13 Clo 4 evidence.zip | 08/18/2014 - For this group of students, their geometry skills were weak. More than half of the students were pre-service/in-service teachers who had weak math skills. To make matters worse, most of them didn't devote enough time to study for this class because of their work schedule or other reasons. This group of students constantly turned in work after tests for one reason or another which didn't help them prepare for their tests. | | 2013 - 2014 (Fall 2013) |

CLO: MA 110 - Survey of Mathematics: CLO 5

Calculate the perimeter, area, and volume for various figures.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

| Means of Assessment | | | |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------|
| Means of Assessment | Expected Student Performance | Notes | Active |
| Calculate the perimeter, area, and volume for various figures. Signature assignment: Final Exam | 70% of the students assessed will perform at the proficiency level. | | Yes |

| Results | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|
| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
| Final Exam - 12/21/2015 - 100% of students assessed performed at the proficiency level. Expected Student Performance Met: Yes | 12/21/2015 - Instructor should continuously use effective measures of instruction to achieve all learning objectives at proficiency level. | | 2015-2016 (Fall 2015) |

| Results | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|
| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
| Related Documents: CLO 5 Level 3.PDF CLO 5 Level 4.PDF | | | |
| Final Exam - 12/20/2014 - 50% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: MA110 CLO 4-6 FINAL EXAM.zip | 01/19/2015 - Some students have weak math basic skills so calculating equations and other formulas was difficult for them. Some remediation and help will be done in class, but the course cannot address all these weaknesses and students must utilize tutoring services/instructor's assistance outside of regular class time. | | 2014 - 2015 (Fall 2014) |
| Final Exam - 12/20/2013 - 21% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: MA 110F13 Clo 5 evidence.zip | 08/18/2014 - Most students did not do well because of weak basic math skills. More than half of the students were pre-service/in-service teachers who had weak math skills. To make matters worse, most of them didn't devote enough time to study for this class because of their work schedule or other reasons. This group of students constantly turned in work after tests for one reason or another which didn't help them prepare for their tests. | | 2013 - 2014 (Fall 2013) |

CLO: MA 110 - Survey of Mathematics: CLO 6

Identify and evaluate financial problems and classify and evaluate the sum of a sequence.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

| Means of Assessment | | | |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------|
| Means of Assessment | Expected Student Performance | Notes | Active |
| Identify and evaluate financial problems and classify and evaluate the sum of a sequence. | 70% of the students assessed will perform at the proficiency level. | | Yes |
| Signature assignment: Final Exam | | | |

| Results | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|
| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
| Final Exam - 12/21/2015 - 91% of students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: CLO 6 Level 2.PDF CLO 6 Level 3.PDF CLO 6 Level 4.PDF | 12/21/2015 - Instructor should continuously use effective measures of instruction to achieve all learning objectives at proficiency level. | | 2015-2016 (Fall 2015) |

Results

| Summary of Data Collected | Use of Results | Follow-Up | Semester Assessed |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------|
| <p>Final Exam - 12/20/2014 - 64% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: MA110 CLO 4-6 FINAL EXAM.zip</p> | <p>01/19/2015 - Most of the students were confused with the financial formulas due to their weak math skills. Next time, I will prepare a handout to summarize all the formulas in categories. This might help them to distinguish the differences between the formulas.</p> | | <p>2014 - 2015 (Fall 2014)</p> |
| <p>Final Exam - 12/20/2013 - 21% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: ma 110f13 Clo 6 evidence.zip</p> | <p>08/18/2014 - Most of the students were confused with the financial formulas. This stems from their weak skills in problem solving including algebra skills.</p> | | <p>2013 - 2014 (Fall 2013)</p> |