

“We Strive to Guarantee Quality and Excellence”

Palau Community College is an accessible public educational institution helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence.

**T2 - Instructional Departments  
(Academic Departments)  
Three Year Program Review**

**Mathematics Department**

**Fall 2015-Summer 2018.**

Program Review Completed By:

| Name            | Title                               | Signature          | Date    |
|-----------------|-------------------------------------|--------------------|---------|
| Epimachus Moses | Associate Professor,<br>Mathematics | <i>[Signature]</i> | 4/24/19 |

Program Review Certified By:

| Name           | Title                  | Signature          | Date    |
|----------------|------------------------|--------------------|---------|
| Robert Ramarui | Dean, Academic Affairs | <i>[Signature]</i> | 4/25/19 |

Program Review Received By: (Institutional Research & Evaluation Office)

| Name        | Title                    | Signature          | Date    |
|-------------|--------------------------|--------------------|---------|
| Ligaya Sara | Institutional Researcher | <i>[Signature]</i> | 4/25/19 |

## **Purpose:**

Program review at Palau Community College is a process that provides an extensive evaluation of academic and non-academic programs on a three year basis. The results of yearly assessments (using the FAMED process) are compiled into the one three year review cycle.

The purpose of program review is to evaluate program sufficiency to allow definite strategies to be developed for major revisions, to provide information for consideration when decisions are made, and to develop recommendations to improve institutional effectiveness.



## **Instructions for completing Program Review:**

1. Type your text into the boxes. The text boxes will expand to accommodate the amount of text spaces you need.
2. Individual instructions are included before each section. Examples are in **green**, remove when you start writing.
3. Submit completed and signed Program Review in both hard copy and electronic copy format to the Institutional Research & Evaluation Office.
4. Required supporting documents must be included during submission.

Appendix A: CLOs – GE/ILOs Mapping (e-copy only)

Appendix B: Most Updated & Approved Outlines within this cycle (e-copy only)

Appendix C: FAMED grid of all course assessment data within review cycle  
(e-copy in pdf only)

5. Be sure to keep both hard and electronic copies for your file.

Note: Other college plans may include the 15-Year Institutional Master Plan, the 5-Year Technology Plan, Institutional Learning Outcomes, Institutional-Set Standards for Student Achievement, or other plans, such as an approved department plan or committee plan.

## **I. Academic Department Purpose and Relationship to the College Mission**

1. State the mission of this academic department below.

The department main goals are to:

- ❖ Provide students with learning opportunities to extend their study of mathematics in order to communicate mathematical ideas effectively either orally or in writing.
- ❖ Provide students in vocational and non-vocational programs with mathematical concepts and problem-solving skills to be successful in their chosen field of specialization.
- ❖ Develop student's ability in precise and accurate skills in mathematical computation.

2. How is the academic department supporting the overall mission of the College?

The goals of the Mathematics Department at Palau Community College is directly linked to the mission of the college, that is to provide learning opportunities for all students in mathematics which supports all the college programs. It promotes the study of mathematics in-depth in preparation for a college degree or an immediate career, support the mathematical needs of other courses, and supply a curriculum for all students to enhance their understanding of mathematical thought in their technical, academic, and economic needs.

3. Provide a brief history of this academic department below. Include the updates of major changes and accomplishments since the last review.

The teaching of mathematics at Palau Community College began in 1969 when the college was known as Micronesian Occupational Center (MOC), a two-year post-secondary vocational/technical institution. The mathematics courses provided concepts and skills that supported the vocational and technical programs in the college. Over the years, the department main goals have continued to expand to support academic programs such as Business Accounting, Criminal Justice, Education Programs, Environmental Science, Liberal Arts, Library Science, and Science Technology Engineering & Mathematics (STEM). The department now has eleven (11) courses which provide quality instructions for both academic and technical programs.

## II. Student and Faculty Data

**Figure 1 – Course Completion Data**

*You may insert more rows as needed*

Table 1a. Course Completion of Department Courses (Fall)

| FA 2015       |        |        |          |          | FA 2016       |        |        |          |          | FA 2017       |        |        |          |          |
|---------------|--------|--------|----------|----------|---------------|--------|--------|----------|----------|---------------|--------|--------|----------|----------|
| <u>Course</u> | Passed | Failed | Withdraw | Enrolled | <u>Course</u> | Passed | Failed | Withdraw | Enrolled | <u>Course</u> | Passed | Failed | Withdraw | Enrolled |
| MA095         | 105    | 53     | 10       | 168      | MA100         | 21     | 2      | 0        | 23       | MA100         | 7      | 0      | 2        | 9        |
| MA100         | 17     | 0      | 0        | 17       | MA101         | 20     | 0      | 4        | 24       | MA101         | 15     | 3      | 4        | 22       |
| MA101         | 36     | 12     | 3        | 51       | MA105         | 31     | 28     | 21       | 80       | MA103         | 53     | 19     | 7        | 79       |
| MA105         | 7      | 13     | 11       | 31       | MA110         | 5      | 2      | 1        | 8        | MA105         | 31     | 10     | 14       | 55       |
| MA110         | 11     | 1      | 2        | 14       | MA111         | 16     | 1      | 5        | 22       | MA110         | 13     | 3      | 2        | 18       |
| MA111         | 8      | 1      | 3        | 12       | MA112         | 5      | 0      | 0        | 5        | MA111         | 14     | 3      | 2        | 19       |
| MA112         | 2      | 0      | 0        | 2        | MA157         | 11     | 1      | 2        | 14       | MA112         | 4      | 0      | 0        | 4        |
| MA157         | 15     | 2      | 4        | 21       |               |        |        |          |          | MA157         | 5      | 0      | 1        | 6        |
|               |        |        |          |          |               |        |        |          |          |               |        |        |          |          |

Table 1b. Course Completion of Department Courses (Spring)

| SP 2016       |        |        |          |          | SP 2017       |        |        |          |          | SP 2018       |        |        |          |          |
|---------------|--------|--------|----------|----------|---------------|--------|--------|----------|----------|---------------|--------|--------|----------|----------|
| <u>Course</u> | Passed | Failed | Withdraw | Enrolled | <u>Course</u> | Passed | Failed | Withdraw | Enrolled | <u>Course</u> | Passed | Failed | Withdraw | Enrolled |
| MA095         | 50     | 23     | 10       | 83       | MA100         | 17     | 1      | 0        | 18       | MA100         | 5      | 1      | 0        | 6        |
| MA100         | 20     | 0      | 0        | 20       | MA103         | 28     | 8      | 6        | 42       | MA103         | 27     | 22     | 6        | 55       |
| MA105         | 33     | 8      | 8        | 49       | MA105         | 16     | 18     | 7        | 41       | MA105         | 23     | 8      | 7        | 38       |
| MA111         | 3      | 3      | 2        | 8        | MA110         | 7      | 3      | 0        | 10       | MA110         | 1      | 1      | 1        | 3        |
| MA121         | 18     | 8      | 1        | 27       | MA111         | 6      | 2      | 2        | 10       | MA111         | 9      | 1      | 6        | 16       |
| MA211         | 8      | 0      | 0        | 8        | MA121         | 29     | 1      | 8        | 38       | MA121         | 21     | 12     | 9        | 42       |
| MA221         | 1      | 0      | 0        | 1        | MA157         | 3      | 1      | 1        | 5        | MA211         | 4      | 1      | 1        | 6        |
|               |        |        |          |          | MA211         | 3      | 0      | 0        | 3        | MA221         | 2      | 0      | 0        | 2        |
|               |        |        |          |          | MA221         | 3      | 0      | 0        | 3        |               |        |        |          |          |

Table 1c. Course Completion of Department Courses (Summer)

| SU 2016       |        |        |          |          | SU 2017       |        |        |          |          | SU 2018       |        |        |          |          |
|---------------|--------|--------|----------|----------|---------------|--------|--------|----------|----------|---------------|--------|--------|----------|----------|
| <u>Course</u> | Passed | Failed | Withdraw | Enrolled | <u>Course</u> | Passed | Failed | Withdraw | Enrolled | <u>Course</u> | Passed | Failed | Withdraw | Enrolled |
| MA095         | 48     | 20     | 4        | 72       | MA103         | 9      | 0      | 0        | 9        | MA103         | 23     | 0      | 1        | 24       |
| MA105         | 10     | 2      | 6        | 18       | MA105         | 5      | 0      | 0        | 5        | MA105         | 12     | 3      | 1        | 16       |
| MA157         | 26     | 1      | 0        | 27       |               |        |        |          |          |               |        |        |          |          |
|               |        |        |          |          |               |        |        |          |          |               |        |        |          |          |
|               |        |        |          |          |               |        |        |          |          |               |        |        |          |          |

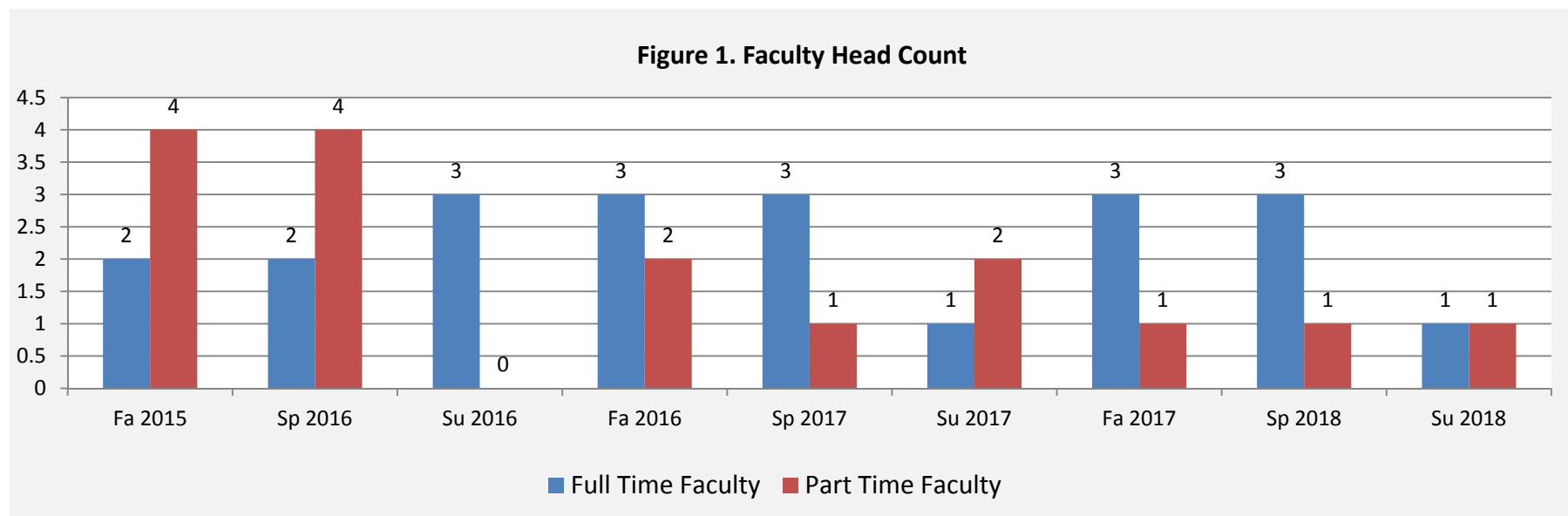
Provide Summary of Tables 1a, 1b & 1c including its trends analysis below.

Looking at the past 3 years, the enrollment has been between 170-200 students except for Fall 2015 with a high enrollment of 316 students and variable numbers in the summer sessions with a high of 117 students and low of 14 students.

Some courses especially the algebra classes have failure rates of 30% or more. For MA 95, 34% for Fall 2015 and 32% for Spring 2016. For MA 105, a very high 65% for Fall 2015, 47% for Fall 2016. and 53% for Spring 2017. For MA 121, 31% for Spring 2016 and 36% for Spring 2018.

MA 95 was deleted and a new math course, MA 103, was introduced Spring 2017. Looking at the data for MA 103, the failure rates is about 20% with 22% for Spring 2017, 26% for Fall 2017, and a high of 45% for Spring 2018.

**Figure 1 – Faculty Information**



Provide summary of Figure 1 including its trends analysis below.

Normally, we have three full-time instructors. However, for Fall 2015 and Spring 2016 semesters there were only two full-time instructors. This is why four part-time instructors were utilized to cover all the math courses offered. In the middle of Spring 2016 semester, a new math instructor was hired so starting with Summer 2016, there were three full-time math instructors.

For Fall 2016 and Spring 2017 semesters as well as Fall 2017 and Spring 2018 semesters, most of the math courses were taught by the three Full-time instructors and one part-time instructor.

For Summer 2016 semester, all three full-time instructors taught classes. For Summer 2017 and Summer 2018, only one full-time instructor taught classes.

### III. Student Learning and Curriculum

| School Year | How many department courses are there? (refer to catalog or most recent approval by CPC) | % of courses with Identified CLOs | List all revised department courses outlines or proposed new courses that received CPC approval within this review cycle | % of CLOs aligned with GE/ILOs |
|-------------|--|-----------------------------------|--|--------------------------------|
| 2015-2016   | 11   | 100%                              | MA 100 (updated 8/26/15)<br>MA 101(updated 4/8/15)<br>MA 221 (updated 5/23/16)   | 100%                           |
| 2016-2017   | 11   | 100%                              | MA 103 (updated 11/23/16)<br>MA 105 (updated 11/22/16)   | 100%                           |
| 2017-2018   | 11   | 100%                              | no updates   | 100%                           |

Provide Summary of Student Learning and Curriculum in the box below. Summary should include reasons for course revisions and course proposals. If any course went through the validity process during this cycle, include the information here.

2015-2016:

For MA 100, a 3-year update was done and the rubrics/CLOs were also updated.

For MA 101, a lab component was added so that the 3-hour lecture credits became 2-hour lectures and 1-hour laboratory. This was done as a part of a 3-year update and the CLOs were also updated.

For MA 221, some of the optional content on integration was deleted after it was assessed that there was not enough time to cover this content. The outline content and CLO's were modified to reflect this change.

2016-2017:

For MA 103, this is a new course that was introduced to meet the mathematics requirement of some programs as well as a prerequisite course for other mathematics courses.

For MA 105, the following changes were made because the basic algebra course (MA 95) was deleted. The short basic algebra review was expanded to cover the prerequisite materials for intermediate algebra. This change is reflected on the description of the course, the course content, the prerequisite of the course, and the CLO's. A lab component was also added so that the 3-hour lecture credits became 2-hour lectures and 1-hour laboratory.

### IV. Course Assessment Data

Year 1: School Year 2015-2016

| Semester Assessed | Course Assessed   | CLO-GE/ILO Mapping             | Results of Assessments<br>(Do not combine CLO results;<br>report individual CLO result.) |
|-------------------|-------------------|--------------------------------|--|
| Fall 2015         | MA 95<br>Sect 2-8 | CLO1- PLO1/PLO3-<br>ILO1/ ILO3 | 86% of the students performed at the proficiency level.                                  |
|                   |                   | CLO2- PLO1/PLO3-<br>ILO1/ ILO3 | 81% of the students performed at the proficiency level.                                  |

|           |                    |                            |   |
|-----------|--------------------|----------------------------|---|
|           |                    | CLO3- PLO1/PLO3-ILO1/ ILO3 | 79% of the students performed at the proficiency level.   |
|           |                    | CLO4- PLO1/PLO3-ILO1/ ILO3 | 94% of the students performed at the proficiency level.   |
|           |                    | CLO5- PLO1/PLO3-ILO1/ ILO3 | 85% of the students performed at the proficiency level.   |
|           |                    | CLO6- PLO1/PLO3-ILO1/ ILO3 | 75% of the students performed at the proficiency level.   |
| Fall 2015 | MA 100             | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.  |
|           |                    | CLO2- PLO1/PLO3-ILO1/ ILO3 | 85% of the students performed at the proficiency level.   |
|           |                    | CLO3- PLO1/PLO3-ILO1/ ILO3 | 80% of the students performed at the proficiency level.   |
|           |                    | CLO4- PLO1/PLO3-ILO1/ ILO3 | 80% of the students performed at the proficiency level.   |
|           |                    | CLO5- PLO1/PLO3-ILO1/ ILO3 | 70% of the students performed at the proficiency level.   |
| Fall 2015 | MA 101             | CLO1- PLO1/PLO3-ILO1/ ILO3 | 80% of the students assessed performed at the proficiency level.                                      |
|           |                    | CLO2- PLO1/PLO3-ILO1/ ILO3 | 30% of the students assessed performed at the proficiency level                                       |
|           |                    | CLO3- PLO1/PLO3-ILO1/ ILO3 | 60% of the students assessed performed at the proficiency level                                       |
|           |                    | CLO4- PLO1/PLO3-ILO1/ ILO3 | 40% of the students assessed performed at the proficiency level.                                      |
|           |                    | CLO5- PLO1/PLO3-ILO1/ ILO3 | 30% of the students assessed performed at the proficiency Level                                       |
| Fall 2015 | MA 105<br>Sect 1-2 | CLO1- PLO1/PLO3-ILO1/ ILO3 | 88% of the students performed at the proficiency level.   |
|           |                    | CLO2- PLO1/PLO3-ILO1/ ILO3 | 75% of the students performed at the proficiency level.   |
|           |                    | CLO3- PLO1/PLO3-ILO1/ ILO3 | 67% of the students performed at the competent level.   |
|           |                    | CLO4- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the competent level.  |
|           |                    | CLO5- PLO1/PLO3-ILO1/ ILO3 | 67% of the students performed at the competent level.   |
| Fall 2015 | MA 110             | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|           |                    | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|           |                    | CLO3- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|           |                    | CLO4- PLO1/PLO3-ILO1/ ILO3 | 91% of students achieved the expected performance with proficiency level 3 equivalents to Competent.  |
|           |                    | CLO5- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|           |                    | CLO6- PLO1/PLO3-ILO1/ ILO3 | 91% of students achieved the expected performance with proficiency level 3 equivalents to Competent.  |
| Fall 2015 | MA111              | CLO1- PLO1/PLO3-           | 100% of students achieved the expected performance with   |



|             |                 |                            |   |
|-------------|-----------------|----------------------------|---|
|             |                 | ILO1/ ILO3                 | proficiency level 3 equivalents to Competent.   |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
|             |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 100% of students achieved the expected performance with proficiency level 3 equivalents to Competent. |
| Fall 2015   | MA112           | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.  |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.  |
|             |                 | CLO-3 PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.  |
|             |                 | CLO-4 PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.  |
|             |                 | CLO-5 PLO1/PLO3-ILO1/ ILO3 | This CLO Was Not Assessed By The Instructor.  |
| Fall 2015   | MA 157          |                            | Data for this course was not found.   |
|             |                 |                            |   |
| Spring 2016 | MA 95 Sect 2-5  | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.  |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 99% of the students performed at the proficiency level.   |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 96% of the students performed at the proficiency level.   |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 99% of the students performed at the proficiency level.   |
|             |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.  |
|             |                 | CLO6- PLO1/PLO3-ILO1/ ILO3 | 95% of the students performed at the proficiency level.   |
| Spring 2016 | MA 100          | CLO1- PLO1/PLO3-ILO1/ ILO3 | 85% of the students achieved the expected performance.  |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 85% of the student achieved the expected performance.   |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 80% of the students achieved the expected performance.  |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 80% of the students achieved the expected performance.  |
|             |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 70% of the students achieved the expected performance.  |
| Spring 2016 | MA 105 Sect 1-3 | CLO1- PLO1/PLO3-ILO1/ ILO3 | 87% of the students performed at the proficiency level.   |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 95% of the students performed at the proficiency level.   |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 72% of the students performed at the proficiency level.   |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 74% of the students performed at the proficiency level.   |

|             |        |                             |   |
|-------------|--------|-----------------------------|---|
|             |        | CLO5- PLO1/PLO3-ILO1/ ILO3  | 78% of the students performed at the proficiency level.   |
| Spring 2016 | MA111  | CLO1- PLO1/PLO3-ILO1/ ILO3  | Mid Term papers were given back to students in teacher error. Hence it was not assessed this semester |
|             |        | CLO2- PLO1/PLO3-ILO1/ ILO3  | Mid Term papers were given back to students in teacher error. Hence it was not assessed this semester |
|             |        | CLO3- PLO1/PLO3-ILO1/ ILO3  | Mid Term papers were given back to students in teacher error. Hence it was not assessed this semester |
|             |        | CLO4- PLO1/PLO3-ILO1/ ILO3  | 25% of the students performed at the proficiency level  |
|             |        | CLO5- PLO1/PLO3-ILO1/ ILO3  | 75% of the students performed at the competent level.   |
| Spring 2016 | MA121  | CLO1- PLO1/PLO3-ILO1/ ILO3  | 69% of the students performed at the proficiency level.   |
|             |        | CLO2- PLO1/PLO3-ILO1/ ILO3  | 92% of the students performed at the proficiency level.   |
|             |        | CLO3- PLO1/PLO3-ILO1/ ILO3  | 77% of the students performed at the proficiency level.   |
|             |        | CLO4- PLO1/PLO3-ILO1/ ILO3  | 48% of the students performed at the proficiency level.   |
|             |        | CLO5- PLO1/PLO3-ILO1/ ILO3  | 70% of the students performed at the proficiency level.   |
|             |        | CLO6- PLO1/PLO3-ILO1/ ILO3  | 70% of the students performed at the proficiency level.   |
|             |        | CLO7- PLO1/PLO3-ILO1/ ILO3  | 30% of the students performed at the proficiency level.   |
| Spring 2016 | MA 211 | CLO1- PLO1/PLO3-ILO1/ ILO3  | 71% of the students performed at the competent level.   |
|             |        | CLO2- PLO1/PLO3-ILO1/ ILO3  | 71% of the students performed at the competent level.   |
|             |        | CLO3- PLO1/PLO3-ILO1/ ILO3  | 86% of the students performed at the competent level.   |
|             |        | CLO4- PLO1/PLO3-ILO1/ ILO3  | 86% of the students performed at the competent level.   |
|             |        | CLO5- PLO1/PLO3-ILO1/ ILO3  | 71% of the students performed at the competent level.   |
|             |        | CLO6- PLO1/PLO3-ILO1/ ILO3  | 71% of the students performed at the competent level.   |
|             |        | CLO7- PLO1/PLO3-ILO1/ ILO3  | 71% of the students performed at the competent level.   |
|             |        | CLO8- PLO1/PLO3-ILO1/ ILO3  | 86% of the students performed at the competent level.   |
|             |        | CLO 9- PLO1/PLO3-ILO1/ ILO3 | 71% of the students performed at the competent level.   |
|             |        | CLO 10- LO1/PLO3-ILO1/ ILO3 | 71% of the students performed at the competent level.   |
| Spring 2016 | MA221  | CLO1- PLO1/PLO3-ILO1/ ILO3  | 100%of the students performed at the proficiency level.   |
|             |        | CLO2- PLO1/PLO3-ILO1/ ILO3  | 100%of the students performed at the proficiency level.   |
|             |        | CLO3- PLO1/PLO3-            | 100%of the students performed at the proficiency level.   |

|  |  |                            |   |
|--|--|----------------------------|---|
|  |  | ILO1/ ILO3                 |   |
|  |  | CLO4- PLO1/PLO3-ILO1/ ILO3 | 0%of the students performed at the proficiency level      |
|  |  | CLO5- PLO1/PLO3-ILO1/ ILO3 | No data collected (instructor did not cover these topics) |
|  |  | CLO6- PLO1/PLO3-ILO1/ ILO3 | No data collected (instructor did not cover these topics) |

Year 2: School Year 2016-2017

| Semester Assessed | Course Assessed | CLO-GE/ILO Mapping         | Results of Assessments<br>(Do not combine CLO results; report individual CLO result.) |
|-------------------|-----------------|----------------------------|---|
| Fall 2016         | MA 100          | CLO1- PLO1/PLO3-ILO1/ ILO3 | 82% of the students achieved the expected performance.                                |
|                   |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 80% of the student achieved the expected performance.                                 |
|                   |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 80% of the students achieved the expected performance.                                |
|                   |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 85% of the students achieved the expected performance.                                |
|                   |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 70% of the students achieved the expected performance                                 |
| Fall 2016         | MA 101          | CLO1- PLO1/PLO3-ILO1/ ILO3 | 55% of the students assessed performed at the proficiency level.                      |
|                   |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 20% of the students assessed performed at the proficiency level                       |
|                   |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 35% of the students assessed performed at the proficiency level                       |
|                   |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 45% of the students assessed performed at the proficiency level.                      |
|                   |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 45% of the students assessed performed at the proficiency level                       |
| Fall 2016         | MA 105 Sect 1-4 | CLO1- PLO1/PLO3-ILO1/ ILO3 | 80% of the students performed at the proficiency level.                               |
|                   |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 52% of the students performed at the proficiency level.                               |
|                   |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 54% of the students performed at the proficiency level.                               |
|                   |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 42% of the students performed at the proficiency level.                               |
|                   |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 32% of the students performed at the proficiency level.                               |
| Fall 2016         | MA 110          | CLO1- PLO1/PLO3-ILO1/ ILO3 | 75%of the students performed at the competent level.                                  |
|                   |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100%of the students performed at the competent level.                                 |
|                   |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 100%of the students performed at the competent level.                                 |
|                   |                 | CLO4- PLO1/PLO3-           | 75%of the students performed at the competent level.                                  |

|             |                  |                            |  |
|-------------|------------------|----------------------------|--|
|             |                  | ILO1/ ILO3                 |  |
|             |                  | CLO5- PLO1/PLO3-ILO1/ ILO3 | 75%of the students performed at the competent level.               |
|             |                  | CLO6- PLO1/PLO3-ILO1/ ILO3 | 75%of the students performed at the competent level.               |
| Fall 2016   | MA 111           | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO3- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO4- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO5- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO6- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
| Fall 2016   | MA112            | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO3- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
|             |                  | CLO4- PLO1/PLO3-ILO1/ ILO3 | 100% of the students performed at the proficiency level.           |
| Spring 2017 | MA 100 Sect 1-2  | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                  | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                  | CLO3- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                  | CLO4- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                  | CLO5- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
| Spring 2017 | MA 103 Sec 1, 2  | CLO1- PLO1/PLO3-ILO1/ ILO3 | 87.5% of the students assessed performed at the proficiency level. |
|             |                  | CLO2- PLO1/PLO3-ILO1/ ILO3 | 62.5%of the students assessed performed at the proficiency level.  |
|             |                  | CLO3- PLO1/PLO3-ILO1/ ILO3 | 90%of the students assessed performed at the proficiency level.    |
|             |                  | CLO4- PLO1/PLO3-ILO1/ ILO3 | 75%of the students assessed performed at the proficiency level.    |
|             |                  | CLO5- PLO1/PLO3-ILO1/ ILO3 | 80%of the students assessed performed at the proficiency level.    |
|             |                  | CLO6- PLO1/PLO3-ILO1/ ILO3 | 90%of the students assessed performed at the proficiency level.    |
| Spring 2017 | MA 105 Sec 1,2,4 | CLO1- PLO1/PLO3-ILO1/ ILO3 | 68%of the students assessed performed at the proficiency level.    |
|             |                  | CLO2- PLO1/PLO3-           | 59%of the students assessed performed at the proficiency           |

|                |          |  |  |
|----------------|----------|--|--|
|                |          | ILO1/ ILO3                                   | level.   |
|                |          | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 45% of the students assessed performed at the proficiency level. |
|                |          | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 76% of the students assessed performed at the proficiency level. |
|                |          | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 71% of the students assessed performed at the proficiency level. |
|                |          | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | 57% of the students assessed performed at the proficiency level. |
|                |          | CLO7- PLO1/PLO3-<br>ILO1/ ILO3               | 38% of the students assessed performed at the proficiency level. |
| Spring<br>2017 | MA 110   | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 75% of the students assessed performed at the proficiency level. |
|                |          | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 57% of the students assessed performed at the proficiency level. |
|                |          | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 86% of the students assessed performed at the proficiency level. |
|                |          | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 50% of the students assessed performed at the proficiency level. |
|                |          | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 83% of the students assessed performed at the proficiency level. |
|                |          | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | 50% of the students assessed performed at the proficiency level. |
| Spring<br>2017 | MA - 111 | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level.         |
|                |          | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 16% of the students performed at the proficiency level.          |
|                |          | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 66% of the students performed at the proficiency level.          |
|                |          | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 66% of the students performed at the proficiency level.          |
|                |          | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 66% of the students performed at the proficiency level.          |
| Spring<br>2017 | MA - 121 | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 96.5% of the students performed at the proficiency level.        |
|                |          | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 86.2% of the students performed at the proficiency level.        |
|                |          | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the competent level.           |
|                |          | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 96.5% of the students performed at the competent level.          |
|                |          | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 89.6% of the students performed at the competent level.          |
|                |          | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | 89.6% of the students performed at the competent level.          |
|                |          | CLO7- PLO1/PLO3-<br>ILO1/ ILO3               | 79.3% of the students performed at the competent level.          |
| Spring<br>2017 | MA 157   | CLO1- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students performed at the proficiency level.         |

|                |          |  |  |
|----------------|----------|--|--|
|                |          | CLO2- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students performed at the proficiency level. |
|                |          | CLO3- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students performed at the proficiency level. |
|                |          | CLO4- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students performed at the proficiency level. |
| Spring<br>2017 | MA 211   | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO7- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO8- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO9- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
|                |          | CLO10- LO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level. |
| Spring<br>2017 | MA - 221 | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 100.00% of the students performed at the competent level |
|                |          | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 100.00% of the students performed at the competent level |
|                |          | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 100.00% of the students performed at the competent level |
|                |          | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 100.00% of the students performed at the competent level |
|                |          | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 100.00% of the students performed at the competent level |
|                |          | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | No data collected (did not cover these topics)           |

Year 3: School Year 2017-2018

| Semester<br>Assessed | Course<br>Assessed | CLO-GE/ILO<br>Mapping          | Results of Assessments<br>(Do not combine CLO results; report individual CLO result.) |
|----------------------|--------------------|--------------------------------|---|
| Fall<br>2017         | MA 100<br>Sect 2   | CLO1- PLO1/PLO3-<br>ILO1/ ILO3 | 100% of the students assessed performed at the proficiency level.                     |
|                      |                    | CLO2- PLO1/PLO3-<br>ILO1/ ILO3 | 80% of the students assessed performed at the proficiency level.                      |
|                      |                    | CLO3- PLO1/PLO3-               | 100% of the students assessed performed at the proficiency                            |

|              |                    |  |  |
|--------------|--------------------|--|--|
|              |                    | ILO1/ ILO3                                   | level.   |
|              |                    | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 100%of the students assessed performed at the proficiency level.   |
|              |                    | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 100%of the students assessed performed at the proficiency level.   |
| Fall<br>2017 | MA 101             | CLO1- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 92.31%of the students assessed performed at the proficiency level. |
|              |                    | CLO2- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100%of the students assessed performed at the proficiency level.   |
|              |                    | CLO3- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 76.92%of the students assessed performed at the proficiency level. |
|              |                    | CLO4- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 84.62%of the students assessed performed at the proficiency level. |
|              |                    | CLO5- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 76.92%of the students assessed performed at the proficiency level. |
| Fall<br>2017 | MA 103             | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 96.1%of the students assessed performed at the proficiency level.  |
|              |                    | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 90.2%of the students assessed performed at the proficiency level.  |
|              |                    | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 94.0%of the students assessed performed at the proficiency level.  |
|              |                    | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 84.0%of the students assessed performed at the proficiency level.  |
|              |                    | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 90.0%of the students assessed performed at the proficiency level.  |
|              |                    | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | 82.0%of the students assessed performed at the proficiency level.  |
| Fall<br>2017 | MA 105<br>Sect 1-4 | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 94.44%of the students assessed performed at the proficiency level. |
|              |                    | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 83.33%of the students assessed performed at the proficiency level. |
|              |                    | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 75.00%of the students assessed performed at the proficiency level. |
|              |                    | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 94.29%of the students assessed performed at the proficiency level. |
|              |                    | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 80.00%of the students assessed performed at the proficiency level. |
|              |                    | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | 74.29%of the students assessed performed at the proficiency level. |
|              |                    | CLO7- PLO1/PLO3-<br>ILO1/ ILO3               | 71.43%of the students assessed performed at the proficiency level. |
| Fall<br>2017 | MA 110             | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 75%of the students assessed performed at the proficiency level.    |
|              |                    | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 75%of the students assessed performed at the proficiency level.    |
|              |                    | CLO3- PLO1/PLO3-                             | 81%of the students assessed performed at the proficiency           |



|                |                    |  |   |
|----------------|--------------------|--|---|
|                |                    | ILO1/ ILO3                                   | level.  |
|                |                    | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 50% of the students assessed performed at the proficiency level.  |
|                |                    | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 71% of the students assessed performed at the proficiency level.  |
|                |                    | CLO6- PLO1/PLO3-<br>ILO1/ ILO3               | 85% of the students assessed performed at the proficiency level.  |
| Fall<br>2017   | MA 111             | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 93.33% of the students performed at the proficiency level.        |
|                |                    | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level.          |
|                |                    | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 73.33% of the students performed at the proficiency level.        |
|                |                    | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 86.67% of the students performed at the proficiency level.        |
|                |                    | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 80% of the students performed at the proficiency level.           |
| Fall<br>2017   | MA 112             | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 75% of the students performed at the proficiency level.           |
|                |                    | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level.          |
|                |                    | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level.          |
|                |                    | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 75% of the students performed at the proficiency level.           |
|                |                    | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students performed at the proficiency level.          |
| Fall<br>2017   | MA 157             | CLO1- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students assessed performed at the proficiency level. |
|                |                    | CLO2- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students assessed performed at the proficiency level. |
|                |                    | CLO3- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students assessed performed at the proficiency level. |
|                |                    | CLO4- PLO1/PLO2/<br>PLO3- ILO1/ILO2/<br>ILO3 | 100% of the students assessed performed at the proficiency level. |
|                |                    |  |   |
| Spring<br>2018 | MA 100<br>Sect 1-2 | CLO1- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students assessed performed at the proficiency level. |
|                |                    | CLO2- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students assessed performed at the proficiency level. |
|                |                    | CLO3- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students assessed performed at the proficiency level. |
|                |                    | CLO4- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students assessed performed at the proficiency level. |
|                |                    | CLO5- PLO1/PLO3-<br>ILO1/ ILO3               | 100% of the students assessed performed at the proficiency level. |
| Spring         | MA 103             | CLO1- PLO1/PLO3-                             | 96% of the students assessed performed at the proficiency         |



|             |                 |                            |  |
|-------------|-----------------|----------------------------|--|
| 2018        | Sect 1-3        | ILO1/ ILO3                 | level.   |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 85%of the students assessed performed at the proficiency level.    |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 88%of the students assessed performed at the proficiency level.    |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 85%of the students assessed performed at the proficiency level.    |
|             |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                 | CLO6- PLO1/PLO3-ILO1/ ILO3 | 85%of the students assessed performed at the proficiency level.    |
| Spring 2018 | MA 105 Sect 1-3 | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 88.89%of the students assessed performed at the proficiency level. |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 77.78%of the students assessed performed at the proficiency level. |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 81.48%of the students assessed performed at the proficiency level. |
|             |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 88.89%of the students assessed performed at the proficiency level. |
|             |                 | CLO6- PLO1/PLO3-ILO1/ ILO3 | 96.30%of the students assessed performed at the proficiency level. |
|             |                 | CLO7- PLO1/PLO3-ILO1/ ILO3 | 77.78%of the students assessed performed at the proficiency level. |
| Spring 2018 | MA 110          | CLO1- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
|             |                 | CLO6- PLO1/PLO3-ILO1/ ILO3 | 100%of the students assessed performed at the proficiency level.   |
| Spring 2018 | MA 111          | CLO1- PLO1/PLO3-ILO1/ ILO3 | 88.9% of the students performed at the proficiency level.          |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 77.78% of the students performed at the proficiency level.         |
|             |                 | CLO3- PLO1/PLO3-ILO1/ ILO3 | 88.89% of the students performed at the proficiency level.         |
|             |                 | CLO4- PLO1/PLO3-ILO1/ ILO3 | 77.78% of the students performed at the proficiency level.         |
|             |                 | CLO5- PLO1/PLO3-ILO1/ ILO3 | 55.56% of the students performed at the proficiency level.         |
| Spring 2018 | MA 121          | CLO1- PLO1/PLO3-ILO1/ ILO3 | 67.86% of the students performed at the proficiency level.         |
|             |                 | CLO2- PLO1/PLO3-ILO1/ ILO3 | 85.71% of the students performed at the proficiency level.         |

|             |        |                              |   |
|-------------|--------|------------------------------|---|
|             |        | CLO3- PLO1/PLO3-ILO1/ ILO3   | 89.29% of the students performed at the proficiency level.        |
|             |        | CLO4- PLO1/PLO3-ILO1/ ILO3   | 72% of the students performed at the proficiency level.           |
|             |        | CLO5- PLO1/PLO3-ILO1/ ILO3   | 72% of the students performed at the proficiency level.           |
|             |        | CLO6- PLO1/PLO3-ILO1/ ILO3   | 56% of the students performed at the proficiency level.           |
|             |        | CLO7- PLO1/PLO3-ILO1/ ILO3   | 72% of the students performed at the proficiency level.           |
| Spring 2018 | MA 211 | CLO1- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO2- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO3- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO4- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO5- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO6- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO7- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO8- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO9- PLO1/PLO3-ILO1/ ILO3   | 100% of the students assessed performed at the proficiency level. |
|             |        | CLO10- PLO1/PLO3- ILO1/ ILO3 | 100% of the students assessed performed at the proficiency level. |
| Spring 2018 | MA 221 | CLO1- PLO1/PLO3-ILO1/ ILO3   | 100.00% of the students performed at the proficiency level.       |
|             |        | CLO2- PLO1/PLO3-ILO1/ ILO3   | 100.00% of the students performed at the proficiency level.       |
|             |        | CLO3- PLO1/PLO3-ILO1/ ILO3   | 100.00% of the students performed at the proficiency level.       |
|             |        | CLO4- PLO1/PLO3-ILO1/ ILO3   | 100.00% of the students performed at the proficiency level.       |
|             |        | CLO5- PLO1/PLO3-ILO1/ ILO3   | 100.00% of the students performed at the proficiency level.       |
|             |        | CLO6- PLO1/PLO3-ILO1/ ILO3   | 100.00% of the students performed at the proficiency level.       |

Provide Summary of Course Assessment Data with analysis results in the box below. Summary should include how assessment results have led to improvement of course and department learning outcomes, and student learning and achievement.

MA 95 was assessed Fall 2015 and Spring 2016 and all CLOs required proficiency of 70% or more was met. MA 100 was assessed Fall 2015 to Spring 2018 except summer sessions and all CLOs required proficiency of 70% or more was met. MA 101 was assessed Fall 2015, Fall 2016, and Fall 2018. Most of the CLOs proficiency requirement of 70% or more was not met for Fall 2015 (80% were not met) and Fall 2016 (100% were not met). However, for Fall 2017, all CLOs required proficiency of 70% or more was met. MA 103 is a new course that was first offered Spring 2017. It has been assessed three times in Spring and Fall 2017 and Spring 2018. All CLOs required proficiency of 70% or more was met in all the semesters except Spring 2017 where CLO 2 was rated at 62.5%.

MA 105 went through a transition when MA 95 was deleted Fall 2016. The original course was assessed Fall 2015, Spring 2016, and Fall 2016. For Fall 2015 and Spring 2016, most of the CLOs required proficiency of 70% or more was met. However, for Fall 2016 all the CLOs required proficiency of 70% was not met. The course was modified to include additional content and a lab component for Spring 2017 when the prerequisite course, MA 95, was deleted. The modified course was first offered Spring 2017 and was assessed Spring and Fall 2017 as well as Spring 2018. For Spring 2017, 57% of the CLOs required proficiency of 70% or more was not met. However, for Fall 2017 and Spring 2018, all the CLOs required proficiency of 70% or more was met.

MA 110 was assessed Fall 2015 and Fall 2016, Spring and Fall 2017, and Spring 2018. All the CLOs required proficiency of 70% or more was met for all semesters except for Fall 2017 where CLO 4 was at 50%. MA 111 was assessed Fall 2015, Spring and Fall 2016, Spring and Fall 2017, and Spring 2018. Most of the semesters, the CLOs required proficiency of 70% or more was met except for Spring 2016 where some of the data was not available and Spring 2017 where 80% of the CLOs required proficiency was not met. MA 112 was assessed Fall 2015, 2016, and 2017. Most of the CLOs required proficiency of 70% or more was met except for Fall 2015 and 2016 where CLO 5 was not assessed. MA 157 was assessed Fall 2015, Spring 2015, and Fall 2017. For Spring 2015 and Fall 2017, all the CLOs required proficiency of 70% or more was met. Unfortunately, for Fall 2015, the assessment data was not found.

MA 211 was assessed Spring 2016, 2017, and 2018. All the CLOs required proficiency of 70% or more was met for these semesters. MA 221 was assessed Spring 2016, 2017, and 2018. For Spring 2016, one student enrolled and had health issues so she was not able to complete some of the work so CLOs 4-6 was not assessed due to lack of data. For Spring 2017, all the CLOs required proficiency of 70% was met except for CLO6. For Spring 2018, all the CLOs required proficiency of 70% or more was met.

For the most part, all the CLOs required proficiency of 70% or more was met. MA 95 was deleted Fall 2016 to address the issue of too many developmental courses which delay students in taking regular college math courses and MA 105 was modified to reflect this change. MA 221's content and CLO's were updated to reflect the assessment's results that the content maybe too much for one semester.

## V. General Education / Institutional Learning Outcomes (GE/ILO) Assessment

| Year Assessed | List GE/ILOs | Proficiency Level | Result of Assessments<br>(Do not combine GE/ILO results; report individual GE/ILO result.)   |
|---------------|--------------|-------------------|--|
| 2016-17       | GE/ILO 2     | 68%               | <p>During school year 2016-17 (fall, spring &amp; summer), new students who came in the fall 2016 were having a hard time expressing thoughts and ideas through writing, as well as oral conversation. However, during the spring of the said school year, students were picking up on techniques improving communication both orally and in writing, their thoughts are somehow getting clearer with organized manner to persuade and informed their listeners.</p> <p>In fall 2016, 66% of students assessed met the proficiency level and in spring 2017, 70% of students assessed met the proficiency level which ended the school year with 68% at proficiency level.</p> |

| Year Assessed | List GE/ILOs   | Proficiency Level | Result of Assessments<br>(Do not combine GE/ILO results; report individual GE/ILO result.)   |
|---------------|----------------|-------------------|--|
| 2015-2016     | GE/ILO 1/ILO 3 | 84%               | <p>During school year 2015-2016 (Fall and Spring semesters only), most of students did well with their math courses which met the critical thinking and problem solving outcomes as well as the quantitative and technical competence outcomes. In Fall 2016, 84% of students assessed met the proficiency level and in Spring 2016, 79% of students assessed met the proficiency level which ended the school year with 82% at proficiency level.</p> |
|               |                |                   |  |
|               |                |                   |  |
|               |                |                   |  |
|               |                |                   |  |

Provide Summary of GE/ILOs Assessments and analysis results in the box below. Summary should include analysis of this cycle with previous cycles; how assessment results have led to major decisions made to support the improvement of department's student learning and student achievement.



## VI. Evaluation of Previous Department Review Action Plan (s)

Indicate the status of the previous department review action plans below. (Include all previous action plans.) Indicate the cycle and years of the previous department review.

|        |                                |
|--------|--------------------------------|
| Cycle: | Years: Fall 2012 – Summer 2015 |
|--------|--------------------------------|

| Action Plan<br>Activity/Objectives   | Status<br>Complete/Ongoing/Incomplete  | Updates of Action Plan(s)<br>(Report action plans individually.) |
|--|--|--|
| Hire a full time math instructor   | Complete                               | A new instructor was hired Spring 2016                           |
| Create and maintain a Math Lab   | Incomplete due to lack of office space |  |
| Conduct monthly faculty meetings   | Ongoing                                |  |
| Continuous review and update of CLOs and other necessary related documents | Ongoing                                |  |
| Faculty development  | Ongoing                                |  |
| Facilities   | Ongoing                                |  |

Provide Summary of the Evaluation of Previous Department Review Action Plans below. Summary should include what measurable outcomes were achieved due to the actions completed; were the completed actions plans led to improvement of student learning and student achievement; and provide detailed explanation of action plans that are ongoing and plans that are incomplete.

For Fall 2015 and Spring 2016, there were only two full-time math instructors, so four part-time math teachers were utilized for this period. In late Spring 2016, a new math instructor was hired to fill the math full-time instructor position. The new instructor started teaching Summer 2016 and the subsequent semesters. With three full-time instructors teaching, this minimized the need to hire part-time teachers for Fall 2016 to Summer 2018.

Regular math faculty meetings and continues review and update of course and CLO's are ongoing. Faculty development is also ongoing as opportunities and funding for these activities become available.

The Math Lab plan is still incomplete due to lack of resources especially office space.

## VII. Action Plans

Based on current department review results, describe the department action plan(s) for the next three (3) academic years. Include necessary resources.

| Action Plan Activity/Objective   | How will this action plan improve student learning outcomes?<br>(CLO, GE, ILO)  | Needed Resources<br>(if any) | Timeline |
|--|---|------------------------------|----------|
| Conduct monthly faculty meetings   | Continue to conduct monthly meetings as necessary for instructors to share any changes/modifications they see fit to improve course learning outcomes. This plan will also ensure constant communication between faculties for improvement of courses and student learning. | None                         | Ongoing  |
| Continuous review and update of CLOs and other necessary related documents | Continue to review and update course learning outlines to ensure better alignment between what is taught in the classroom and what is student evaluated on. The plan will also make sure consistent and updated alignment of CLOs to GE PLOs to ILOs.                       | None                         | Ongoing  |
| Faculty development  | Participate in professional development for instructors and assistant instructors. The plan will ensure instructors are up-to-date on the latest teaching techniques and relevant information for improvement of student learning.  | Funding                      | Ongoing  |
| Facilities   | Continue to assess and make necessary improvement to classrooms to ensure conducive learning environment for both faculties and students.   | Funding                      | Ongoing  |

Provide Summary of Action Plans in the box below. Summary should include department major strengths; department needs and any recommendations for improvements based on assessment results, data and/or other college major plans. The summary needs to indicate overall department needs that may require financial support from the institution.

|  |
|--|
|  |
|--|

## IX. Resource Request

Itemize resource request below to include resource requests that will support action plans and are data-driven (e.g. course enrollment, course needs, student needs). This section should provide a clear representation of the department's annual budget request.

| Type of Resource | Detailed Description | Estimated Amount Requested | Justification |
|------------------|----------------------|----------------------------|---------------|
| Personnel        |                      |                            |               |
| Facility         |                      |                            |               |
| Equipment        |                      |                            |               |
| Supplies         |                      |                            |               |
| Software         |                      |                            |               |
| Training         |                      |                            |               |
| Other            |                      |                            |               |
| Total            |                      |                            |               |

Provide Summary of Resource Request in the box below. Summary should connect the resources requested to course, department and institutional learning outcomes assessment results and/or any other college major plans.

|  |
|--|
|  |
|--|