# The Mesa Community College Program to Assess Student Learning

# Annual Report AY 2016-2017

Prepared by: Office of Institutional Effectiveness

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### I. Introduction and Background

#### **History and Overview of Assessment**

Mesa Community College (MCC) is committed to providing quality education for its students as evidenced in our institutional value, Learning - MCC champions individual student success that reflects the highest academic standards. The college recognizes the need for accurate assessment data to use in evaluating student learning and the effectiveness of the College in meeting its mission. MCC accepts the proposition that the value of assessment is found in the use of the assessment data to improve student learning.

Over the past decade, MCC's student learning outcomes were assessed at a college-wide level through Assessment Week. Faculty donated a class session to proctor an exam that gauged student performance on one of ten learning outcomes. The assessment results were divided into pre- and post-groups based on the number of credit hours that students completed at the time the test was taken. Using this methodology, MCC has consistently shown that students who complete a few semesters at MCC perform better on the learning outcomes than students who had completed less than one semester. In 2007, the Council for Higher Education Accreditation (CHEA) recognized MCC for the innovation of the Assessment Week program.

Areas in need of improvement were identified through the Assessment Week program. Internal grant funds were made available to support initiatives to improve teaching and learning in targeted areas. The grant initiatives supported innovative approaches and sparked important conversations. In the Fall of 2012, the conversation of the difficulty of documenting sustainable improvement of student learning and "closing the loop" motivated the revisions to our college Student Learning Outcomes and assessment method.

The Student Outcomes Committee (SOC) is a faculty senate committee. The committee directs activities related to the implementation of MCC's Student Outcomes Assessment program. In the Fall of 2012, SOC created a Student Outcomes Committee Informed Improvement (SOCii) cluster. Informed improvement is an ongoing cycle of researching, planning, taking action, measuring and analyzing the impact, and making changes designed to increase student learning and success. Through the informed improvement project, SOCii used evidence-based decision-making to address the question:

How can the Student Outcomes Committee Informed Improvement Team facilitate the effective integration of general education outcomes assessment throughout all MCC programs and departments? (Fall 2012)

In researching the issue, the team attended several local and national conferences on assessment. Attendance to the conferences raised awareness as to the extent of course level assessment that was taking place across many colleges and institutions. Thus, confirming the need to revise our assessment methodology.

SOC and Faculty Senate approved a revision of the general education outcomes to better focus on student success. MCC's Student Learning Outcomes became MCC's 4Cs: Communication, Civic Engagement, Critical Thinking, and Cultural and Global Engagement, with each outcome having 5 to 6 criteria. MCC's 4Cs uses standardized scoring guidelines assessment instead of standardized assessment test. This allows instructors to apply the assessment results to their course content and pedagogical practice.

The transition from the old model of learning outcome assessment to the MCC's 4Cs assessment model allows all students to be assessed regardless of modality. The college will be able to accurately assess the outcomes and "close the loop" of improved instruction by having access to meaningful course, program, and college level performance data.

#### **Organizational Structure for Assessment**

The Student Outcomes Committee is composed of 26 faculty from many disciplines, and confers regularly with the Faculty Senate. The Dean of the Office of Institutional Effectiveness (OIE), as well as analysts from the office, serves as a consultant to the committee to ensure that assessment processes and methodologies reflect good practice, including adherence to guidelines for ethical research.

In the past, SOC has run assessment week with substantial participation from full-time and part-time faculty who developed, administered, and scored the assessment instruments. The current revision of our process to assess student learning has continued to engage faculty through regular meetings of the committee, and through the participation of dozens of other academic and occupational faculty in events like a multi-day curriculum mapping processes designed to help tie course competencies in every discipline to the four Institutional Learning Outcomes.

Copy and paste this link into a web browser to access SOC 2016-2017 meeting minutes. https://www.mesacc.edu/about/office-institutional-effectiveness/student-assessment/student-outcome-committee

#### **SOC Goals and Accomplishments**

The MCC Student Outcomes Committee achieved a number of significant accomplishments for the 2013-2014 and 2014-2015 academic years:

#### Fall 2013-Spring 2014

- "Be a Champion" promotion for increased participation in SOC; the committee doubled in size
- SOC initiated a revision of MCC's Institutional Student Learning Outcomes (ISLOs)
- Scoring Guidelines were created for each learning outcome
- Faculty Senate approved MCC's new ISLOs, MCC's 4Cs in December 2013
- Faculty mapped the ISLOs to curriculum
- SOC Chair and SOC Chair-elect presented at the first AZ Assessment Conference in regards to MCC's 4Cs

#### Fall 2014-Spring 2015

- College-wide marketing campaign to promote MCC's 4Cs
  - o Faculty academic summit which focused on how each 'C' can be assessed through course assignments and activities
  - Adjunct faculty convocation presentation and activity to introduce adjunct faculty to MCC's 4Cs
  - Faculty workshops at Southern and Dobson and Red Mountain campuses addressing each outcome and its criteria
  - o Promotional material such as pens and postcards were given out to faculty and staff at MCC
  - o MCC's 4Cs banners were posted around Southern and Dobson and Red Mountain campuses
- 12 hour reassign position for an Assessment Coordinator was approved by faculty senate and administration; position became effective January 2015
- 7 Assessment Coaches selected to promote and educate on the MCC's 4Cs were established
- MCC's 4Cs pilot started in Spring 2015
- "Lunch and Learn" event to walk faculty through the process of preparing their Canvas course for MCC's 4Cs assessment pilot
- Assessment Coordinator and Assessment Coaches educated MCC's 4Cs assessment pilot volunteers on the new assessment process and assisted faculty in preparing their courses for the pilot
- Pilot ended the 15<sup>th</sup> of May 2015 faulty provided feedback

#### Fall 2015-Spring 2016

- Fall 2015 faculty summit on assessment
- Workshops and trainings conducted to educate and assist all faculty with MCC's 4Cs
- MCC's 4Cs assessment pilot results provided as well as feedback from online faculty survey
- Training on MCC's 4Cs and new assessment method included in New Faculty Orientation
- Collaborated with Guided Pathway to Success (GPS) curriculum mapping teams to develop program-level student learning outcomes and to align program courses with MCC's 4Cs
  - o GPS is a framework that will help students identify their goals and needs, and chart clear routes to timely completion.
- Academic Summit workshops on assessment

#### Fall 2016-Spring 2017

- Host for 4<sup>th</sup> Arizona Assessment Conference and multiple speakers on assessment, academic freedom and responsibility, and curriculum mapping
- Ongoing professional development workshops in the Center for Teaching and Learning (CTL) and outreach to departments to assist with course-level assessment planning and implementation
- Ongoing Guided Pathways collaboration for aligning MCC's 4Cs with learning outcomes at the course and program level
- MCC's 4Cs Academic Showcase and faculty recognition awards to highlight assessment and student learning

#### **SOC** Goals

SOC will continue to build a culture of assessment around MCC's 4Cs across curriculum and in co-curricular programs and activities. Some of the SOC goals are as follows:

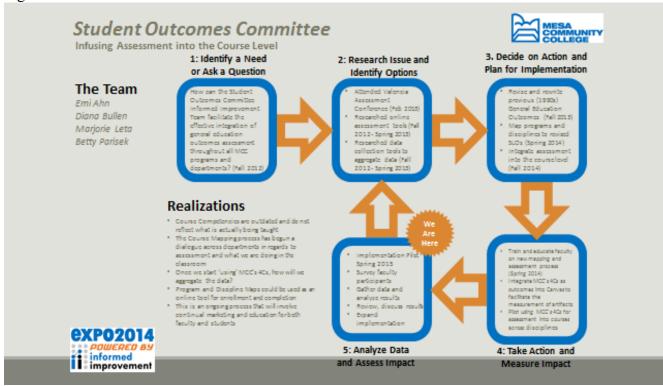
- SOC will work to increase faculty participation in integration of MCC's 4Cs into curriculum
  - Use the initial course mapping activity, determine a baseline level of integration of MCC's 4Cs into all courses offered at MCC and increase each year until all courses have integrated the outcomes
- SOC will work to increase faculty participation in assessing MCC's 4Cs at the course level
  - Determine faculty participation rate in MCC's 4Cs Assessment Pilot conducted in Spring 2015 and double the participation rate each year for the following four years
- SOC will begin working with department chairs and managers to ensure that MCC's 4Cs is a documented department initiative in every department plan
- SOC will begin work to identify all co-curricular programs and activities and assist with the integration and assessment of MCC's 4Cs; having all co-curricular programs and activities integrated and assessing by 2018
- SOC will collaborate with the CTL and the Informed Improvement Coordinator to assist departments with using assessment data to improve student learning at the course and program level.

### II. MCC's 4Cs Development Process

The process began by following the informed improvement strategy. Each of the original student learning outcomes and descriptors were reviewed and evaluated. Common descriptors were eliminated while at the same time linking the new outcomes to the college's Vision, Mission and Value (VMV) statements. The linkage to the MCC's VMV insured fluid integration of institutional student learning outcomes into the college plan. MCC's 4Cs were born: Communication (CO), Critical Thinking (CT), Civic Engagement (CE), and Cultural and Global Engagement (CG).

Groups were formed for each outcome; faculty from both Southern and Dobson and Red Mountain campuses were invited, and participated, in the development of the outcomes clear definitions, the criteria to assess it and scoring guidelines. Scoring guidelines were patterned after the Association of American Colleges and Universities (AACU) and Valid Assessment of Learning in Undergraduate Education (VALUE) rubrics. On December 5, 2013 the MCC's 4Cs were born after unanimous approval from Faculty Senate. SOCii process chart shown below:

Figure 1



#### Figure 2

#### Mesa Community College: Institutional Student Learning Outcomes "MCC's 4Cs"

The following Institutional Student Learning Outcomes are consistent with the Vision, Mission, and Values of both the Maricopa Community Colleges District and Mesa Community College, and reflect our commitment to Individual and Community, Innovation, Integrity, Learning, and Service Excellence.

#### **COMMUNICATION (CO)**

**Institutional Learning Outcome:** Purposeful development, expression, or reception of a message through oral, written, or non-verbal means.

- **1. PURPOSE:** Establish a clear central focus for a message, which demonstrates an understanding of context, audience and task.
- **2. CONTENT:** Develop appropriate, relevant content logically sequencing ideas and information.
- **3. LANGUAGE:** Apply language of a discipline in an

appropriate and accurate manner to demonstrate comprehension.

- **4. EXECUTION:** Convey a message effectively.
- **5. RECEPTION:** Utilize appropriate oral, written, or non-verbal means to receive or interpret a message effectively.

#### CIVIC ENGAGEMENT (CE)

**Institutional learning Outcome:** Encompasses actions to promote the quality of life in a community, through both political and non-political processes.

- **1. INCLUSIVENESS** Demonstrate an ability to engage respectfully with others in a diverse society.
- **2. APPLICATION OF KNOWLEDGE** Apply the knowledge from one's own study **and experiences** to active and ethical participation in civic life.
- **3. DEMONSTRATION OF CIVIC IDENTITY AND COMMITMENT** Provide evidence of experience in and reflection on civic engagement activities.
- **4. CIVIC COMMUNICATION** Communicate and listen to others in order to establish personal and professional relationships to further civic action.
- **5. ENGAGEMENT IN CIVIC ACTION AND REFLECTION**-Demonstrate the ability to deliberate and collaborate **on issues and problems** to achieve a civic aim.

#### CRITICAL THINKING (CT)

**Institutional Learning Outcome:** The mental process of effectively identifying, determining, gathering, evaluating, and utilizing resources to innovate and/or to accomplish a specific task.

- **1. IDENTIFY ISSUE:** Identify and interpret a problem or issue.
- **2. DETERMINE NEEDS:** Determine the resources needed.
- **3. GATHER RESOURCES:** Gather resources effectively and efficiently.
- **4. EVALUATE RESOURCES:** Evaluate resources critically.
- **5. UTILIZE RESOURCES:** Utilize resources effectively and

creatively to innovate and/or to accomplish a specific task.

**6. ASSESS RESULTS:** Assess and evaluate results.

#### CULTURAL AND GLOBAL ENGAGEMENT (CG)

**Institutional learning Outcome:** Encompasses the awareness of cultural systems, events, and creations and an ability to apply this cultural and global awareness to human interaction and expression.

- **1. CULTURAL KNOWLEDGE**: Identify cultural systems, events, or creations.
- **2. GLOBAL INFLUENCES:** Identify the global forces that shape culture and subculture.
- 3. CULTURAL AND GLOBAL SELF

**AWARENESS**: Analyze and explain the impact of culture and experience on one's worldview and behavior, including stereotypes, assumptions,

biases, and prejudices.

- **4. CULTURAL AND GLOBAL AWARENESS:** Analyze and explain the impact of historical events, perspectives, or cultures on world societies, human interaction and expression, and the natural environment.
- **5. INCLUSIVENESS:** Demonstrate a willingness and ability to engage with other cultures and global societies.
- **6. CULTURAL EXPRESSION:** Generate ideas, creations, or models that express the human condition and our relationship with the world around us.

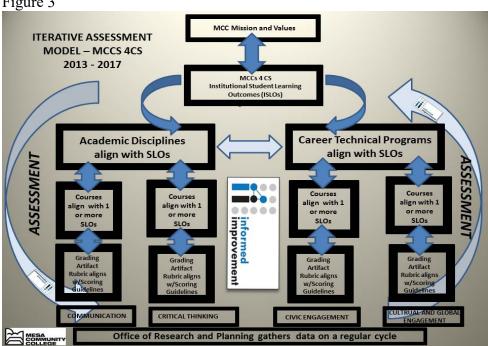


5 December

#### **Institutional Student Learning Outcomes Mapping Activity**

SOC led the Academic Summit during the Spring 2014 semester. The summit engaged faculty from across both campuses and all disciplines and programs. Workshops were carried out for 2 days during accountability week and 100 faculty participated. All academic areas and all CTE departments with the exception of one were represented. The workshops allowed faculty to review their courses, and map their programs to the new Institutional Student Learning Outcomes (iSLOs).





# III. Methodology

During the semesters of Fall 2016 and Spring 2017 (Fall 2016-Spring 2017), SOC invited all residential, one year only, one semester only, and adjunct faculty to participate in MCC's 4Cs assessment. To assist with promoting participation in assessment activities, lead faculty through the assessment process, and provide guidance in the creation of a signature assignment aligning to the scoring guidelines, SOC sought out and chose Assessment Coaches.

Faculty participants identified a 'C' that best aligned with their course. The faculty chose an assignment within their course that aligned with all criteria of the chosen outcome. Faculty attached the 'C' scoring guidelines to the course assignment in Canvas. Using Canvas students assessed in a 'C' were given a rate of achievement levels 1 through 4, with level 4 being the highest level of achievement. The data collected in Canvas for each semester was exported, combined into one dataset, aggregated and analyzed using Excel, MCCCD Institutional Research Information System (IRIS), and IBM SPSS Statistics.

During the analysis phase, if a student's outcome score was blank, a zero score was given. College level and course level 'C' averages were calculated. The average scores range from zero to four, with four being the highest level of achievement.

#### **Data Collection Procedures**

SOC focused assessment efforts on the four outcome areas: Civic Engagement, Communication, Critical Thinking, and Cultural and Global Engagement.

SOC members and Assessment Coaches recruited faculty volunteers. Flyers, informational sessions and trainings, intranet postings, and posters were provided to help recruit volunteers. One hundred and thirty-eight faculty members volunteered a total of 324 sections at Southern and Dobson, Red Mountain campuses, Online and one HS Dual during Fall 2016-Spring 2017. Faculty administered all assessments in regular class sessions during each semester.

Using Canvas, faculty participation was tracked throughout both Fall and Spring semesters by checking if the instructor attached Scoring Guidelines to at least one of their courses. Either the SOC chair or an Assessment Coach notified faculty whom said they would participate, but had not attached Scoring Guidelines by the end of the semester.

Administration of the assessment occurred during the regular classroom period. Faculty utilized an assignment which had already been created or they created a new assignment that best aligned with one of the MCC's 4Cs. Students were informed that the purpose of the assessment was to measure whether education goals are being achieved in order to improve programs and student learning at MCC.

Faculty administered and scored the assessments using Canvas by the end of each semester. At the end of the semesters, OIE exported an Outcomes Report from Canvas into Excel. The reports contained student names, course name, section number, learning outcome, outcome score, and title of assignment. The exported data was used to match each student's assessment with exact demographic and course data using IRIS.

# **Student Profile of MCC's 4Cs Fall 2016-Spring 2017**

Table 1

| Table I   | Student Profile of                  |   |  |  |  |  |  |
|---|-------------------------------------|---|--|--|--|--|--|
| Fall 2016 - Spring 2017 Assessments and College |                                     |   |  |  |  |  |  |
|   | Fall 2016-Spring 2017<br>Assessment | Total College<br>(Fall 2016 45 <sup>th</sup> day) |  |  |  |  |  |
| Headcount (Unduplicated)                        |                                     | 20,508  |  |  |  |  |  |
| Ethnicity                                       |                                     |   |  |  |  |  |  |
| Am. Indian/Alaska Native                        | 3.2%                                | 3.7%  |  |  |  |  |  |
| Asian   | 7.7%                                | 6.0%  |  |  |  |  |  |
| Black/African American                          | 6.2%                                | 6.2%  |  |  |  |  |  |
| Hispanic/Latino                                 | 26.3%                               | 25.4%   |  |  |  |  |  |
| Not Specified                                   | 9.4%                                | 9.9%  |  |  |  |  |  |
| White   | 47.2%                               | 48.8%   |  |  |  |  |  |
|   | Gender                              |   |  |  |  |  |  |
| Female  | 57.6%                               | 49.4%   |  |  |  |  |  |
| Male  | 41.0%                               | 49.0%   |  |  |  |  |  |
| Other/Unknown                                   | 1.5%                                | 1.6%  |  |  |  |  |  |
|   | Age Group                           |   |  |  |  |  |  |
| 15-19   | 26.5%                               | 32.0%   |  |  |  |  |  |
| 20-24   | 40.3%                               | 36.2%   |  |  |  |  |  |
| 25-29   | 15.2%                               | 14.3%   |  |  |  |  |  |
| 30-39   | 11.3%                               | 10.5%   |  |  |  |  |  |
| 40-49   | 3.9%                                | 4.0%  |  |  |  |  |  |
| 50-59   | 2.3%                                | 2.1%  |  |  |  |  |  |
| 60+   | 0.4%                                | .7%   |  |  |  |  |  |
| Undeclared                                      | .1%                                 | 0.2%  |  |  |  |  |  |
|   | Primary Time of Attendance          |   |  |  |  |  |  |
| Day   | 65.8%                               | 65.1%   |  |  |  |  |  |
| Evening   | 10.4%                               | 13.8%   |  |  |  |  |  |
| Non-Traditional                                 | 18.9%                               | 19.0%   |  |  |  |  |  |
| Weekend   | 1.3%                                | 2.0%  |  |  |  |  |  |
| None/Unknown                                    | 3.6%                                | .1%   |  |  |  |  |  |
|   | Academic Load                       |   |  |  |  |  |  |
| Full Time                                       | 51.6%                               | 50.5%   |  |  |  |  |  |
| 3/4 Time  | 13.0%                               | 19.7%   |  |  |  |  |  |
| Half-Time                                       | 19.8%                               | 18.1%   |  |  |  |  |  |
| Less than Half-Time                             | 11.5%                               | 11.6%   |  |  |  |  |  |
| No Units  | 4.0%                                | -   |  |  |  |  |  |

# IV. Overall Summary of Results

#### **Faculty Participation**

MCC moved to MCC's 4Cs assessment model in Spring 2015 (See Appendix B for the summary of Fall 2015-Spring 2016 assessment results). SOC worked to increase awareness and promote the use of MCC's 4Cs to the college community. The table below shows the number of faculty that volunteered in MCC's 4Cs pilot during Spring 2015, Fall 2015-Spring 2016 and Fall 2016-Spring 2017 participants, as well as, the faculty participation rate.

Table 2

| Faculty Participation                      |                                |                       |                       |  |
|--|--------------------------------|-----------------------|-----------------------|--|
|  | MCC's 4Cs Spring<br>2015 Pilot | Fall 2015-Spring 2016 | Fall 2016-Spring 2017 |  |
| Number of Residential Faculty Participants | 33                             | 71                    | 98                    |  |
| Number of Adjunct Faculty Participants     | 2                              | 31                    | 40                    |  |
| Residential Faculty*                       | 341                            | 323                   | 303                   |  |
| Adjunct Faculty                            | 861                            | 812                   | 598                   |  |
| 4Cs Residential Faculty Participation Rate | 9.68%                          | 21.98%                | 32.34%                |  |
| 4Cs Adjunct Faculty Participation Rate     | 0.23%                          | 3.81%                 | 6.69%                 |  |

<sup>\*</sup>FY 2016-2017 actively filled faculty positions (Residential and OYO)

#### **Analysis Highlights**

- 4,576 students were assessed, completing 6,151 assessments in 134 courses from 17 departments
- 98 residential and 40 adjunct faculty administered the assessments in 324 sections
- 718 students were assessed in Civic Engagement with a college-wide learning outcome average score of 2.92
- 1,989 students were assessed in Communication with a college-wide learning outcome average score of 3.04
- 1,926 students were assessed in Critical Thinking with a college-wide learning outcome average score of 3.05
- 1,069 students were assessed in Cultural and Global Engagement with a college-wide learning outcomes score of 3.0

Note: The average is on a scale from zero to four with four being the highest level of achievement

## V. Results and Observations

#### **Overall Results**

Students may have been given an MCC's 4Cs assessment in more than one course, therefore, the # of students in each table in this section are a duplicate count of students. Table 3 provides the departments, the number of instructors, number of courses, number of sections and the number of students assessed Fall 2016-Spring 2017.

Table 3

| Fall 2016-Spring 2017- Assessments Administered by Department |                     |              |               |                  |
|---|---------------------|--------------|---------------|------------------|
| Department  | # of<br>Instructors | # of Courses | # of Sections | # of<br>Students |
| Administration of Justice                                     | 6                   | 15           | 17            | 161              |
| Applied Sciences and Technology                               | 3                   | 4            | 4             | 39               |
| Art   | 9                   | 11           | 24            | 549              |
| Business & Information Systems                                | 18                  | 23           | 55            | 668              |
| Communication, Theatre & Film Arts                            | 11                  | 9            | 30            | 405              |
| Cultural Science  | 6                   | 10           | 14            | 291              |
| Education Studies   | 4                   | 5            | 16            | 258              |
| English/ Humanities/ Journalism                               | 11                  | 7            | 18            | 268              |
| Exercise Science, Physical Education,<br>Recreation, Dance    | 4                   | 5            | 9             | 145              |
| Life Science  | 4                   | 3            | 15            | 514              |
| Mathematics and Computer Science                              | 9                   | 9            | 25            | 422              |
| Music   | 2                   | 2            | 2             | 17               |
| Nursing   | 17                  | 4            | 14            | 273              |
| Psychological Science   | 9                   | 3            | 9             | 154              |
| Reading   | 12                  | 7            | 39            | 482              |
| Social Science  | 6                   | 8            | 13            | 193              |
| World Languages   | 11                  | 9            | 20            | 253              |
| Total   | 142                 | 134          | 324           | 5,092            |

Table 4 shows the department, number of courses assessed, number of courses offered (excluding noncredit, cancelled courses, ROTC and NSO) and the percentage of courses assessed in Fall 2016-Spring 2017.

Table 4

| Fall 2016-Spring 2017 – Courses Offered and Assessed    |                             |                            |                             |                              |                             |                              |
|---|-----------------------------|----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Department  | # of<br>Courses<br>Assessed | # of<br>Courses<br>Offered | % of<br>Courses<br>Assessed | # of<br>Sections<br>Assessed | # of<br>Sections<br>Offered | % of<br>Sections<br>Assessed |
| Administration of Justice                               | 15                          | 44                         | 34.09%                      | 17                           | 147                         | 11.56%                       |
| Applied Sciences and Technology                         | 4                           | 237                        | 1.69%                       | 4                            | 546                         | 0.73%                        |
| Art   | 11                          | 49                         | 22.45%                      | 24                           | 189                         | 12.70%                       |
| Business & Information Systems                          | 23                          | 254                        | 9.06%                       | 55                           | 916                         | 6.00%                        |
| Communication, Theatre & Film Arts                      | 9                           | 32                         | 28.13%                      | 30                           | 246                         | 12.20%                       |
| Cultural Science  | 10                          | 75                         | 13.33%                      | 14                           | 300                         | 4.67%                        |
| Education Studies                                       | 5                           | 48                         | 10.42%                      | 16                           | 123                         | 13.01%                       |
| English/ Humanities/ Journalism                         | 7                           | 77                         | 9.09%                       | 18                           | 694                         | 2.59%                        |
| Exercise Science, Physical Education, Recreation, Dance | 5                           | 134                        | 3.73%                       | 9                            | 350                         | 2.57%                        |
| Life Science  | 3                           | 25                         | 12.00%                      | 15                           | 422                         | 3.55%                        |
| Mathematics and Computer Science                        | 9                           | 37                         | 24.32%                      | 25                           | 593                         | 4.22%                        |
| Music   | 2                           | 248                        | 0.81%                       | 2                            | 597                         | 0.34%                        |
| Nursing   | 4                           | 23                         | 17.39%                      | 14                           | 121                         | 11.57%                       |
| Psychological Science                                   | 3                           | 22                         | 13.64%                      | 9                            | 247                         | 3.64%                        |
| Reading   | 7                           | 12                         | 58.33%                      | 39                           | 141                         | 27.66%                       |
| Social Science  | 8                           | 33                         | 24.24%                      | 13                           | 187                         | 6.95%                        |
| World Languages   | 9                           | 39                         | 23.08%                      | 20                           | 157                         | 12.74%                       |
| Total   | 134                         | 1,389                      | 9.65%                       | 324                          | 5,976                       | 5.42%                        |

Table 5 shows the number of assessments administered by location and instructional mode.

Table 5

| Fall 2016 – Spring 2017 Assessment – College Level |                           |               |               |
|--|---------------------------|---------------|---------------|
| Lo   | cation and Instruction    | nal Mode      |               |
| Location   | <b>Instructional Mode</b> | # of Sections | # of Students |
|  | Field Based               | 1             | 3             |
| Couthour and Dobson                                | Hybrid                    | 24            | 335           |
| Southern and Dobson                                | In Person                 | 199           | 3,270         |
|  | S&D Total                 | 224           | 3,608         |
|  | Hybrid                    | 8             | 78            |
| Red Mountain                                       | In Person                 | 18            | 248           |
|  | RM Total                  | 26            | 326           |
| Online   | Online Total 73 799       |               |               |
| HS Dual  | HS Dual Total             | 1             | 5             |
| Total  | -                         | 324           | 4,738         |

Tables 6-9 show the college – wide average of MCC's 4Cs by location.

Table 6

| Fall 2016-Spring 2017 - Assessment – All Locations            |       |       |      |  |  |  |
|---|-------|-------|------|--|--|--|
| Learning Outcome # of Students # of Assessments Average Score |       |       |      |  |  |  |
| Civic Engagement  | 718   | 735   | 2.92 |  |  |  |
| Communication   | 1,989 | 2,233 | 3.04 |  |  |  |
| Critical Thinking   | 1,926 | 2,056 | 3.05 |  |  |  |
| Cultural and Global Engagement 1,069 1,127 <b>3.00</b>        |       |       |      |  |  |  |
| Total   | 5,702 | 6,151 | -    |  |  |  |

Note: The average is on a scale from zero to four with four being the highest level of achievement

Table 7

| Fall 2016-Spring 2017 - Assessment – Southern and Dobson     |       |       |      |  |  |  |
|--|-------|-------|------|--|--|--|
| Learning Outcome # of Students # of Assessments Average Scor |       |       |      |  |  |  |
| Civic Engagement   | 386   | 393   | 2.79 |  |  |  |
| Communication  | 1,499 | 1,709 | 3.06 |  |  |  |
| Critical Thinking  | 1,485 | 1,559 | 3.06 |  |  |  |
| Cultural and Global Engagement                               | 823   | 870   | 2.92 |  |  |  |
| Total  | 4,193 | 4,531 | -    |  |  |  |

Note: The average is on a scale from zero to four with four being the highest level of achievement

Table 8

| Fall 2016-Spring 2017 - Assessment – Red Mountain             |     |     |      |  |  |  |
|---|-----|-----|------|--|--|--|
| Learning Outcome # of Students # of Assessments Average Score |     |     |      |  |  |  |
| Civic Engagement  | 85  | 85  | 3.13 |  |  |  |
| Communication   | 177 | 177 | 2.66 |  |  |  |
| Critical Thinking   | 108 | 112 | 2.43 |  |  |  |
| Cultural and Global Engagement 75 75 3.22                     |     |     |      |  |  |  |
| Total   | 445 | 449 | -    |  |  |  |

Note: The average is on a scale from zero to four with four being the highest level of achievement

Table 9

| Fall 2016-Spring 2017 - Assessment – Online                   |       |       |      |  |  |  |
|---|-------|-------|------|--|--|--|
| Learning Outcome # of Students # of Assessments Average Score |       |       |      |  |  |  |
| Civic Engagement  | 248   | 257   | 3.06 |  |  |  |
| Communication   | 327   | 342   | 3.14 |  |  |  |
| Critical Thinking   | 344   | 385   | 3.2  |  |  |  |
| Cultural and Global Engagement 176 182 3.27                   |       |       |      |  |  |  |
| Total   | 1,095 | 1,166 | -    |  |  |  |

Note: The average is on a scale from zero to four with four being the highest level of achievement

Table 10

| Fall 2016-Spring 2017 - A      |               |   |      |
|--------------------------------|---------------|---|------|
| Learning Outcome               | Average Score |   |      |
| Civic Engagement               | -             | - | -    |
| Communication                  | 5             | 5 | 2.88 |
| Critical Thinking              | -             | - | -    |
| Cultural and Global Engagement | -             | - | -    |
| Total                          | 5             | 5 | -    |

Note: The average is on a scale from zero to four with four being the highest level of achievement

#### **Civic Engagement**

#### **Definition**

Civic Engagement: Encompasses actions to promote the quality of life in a community, through both political and non-political processes. See Appendix A for Scoring Guidelines.

#### **Descriptors**

- 1. Inclusiveness: Demonstrate and ability to engage respectfully with others in a diverse society.
- 2. Application of Knowledge: Apply the knowledge from one's own study and experiences to active and ethical participation in civic life.
- 3. Demonstration of Civic Identity and Commitment: Provide evidence of experience in and reflection on civic engagement activities.
- 4. Civic Communication: Communicate and listen to others in order to establish personal and professional relationships to further civic action.
- 5. Engagement in Civic Action and Reflection: Demonstrate the ability to deliberate and collaborate on issues and problems to achieve a civic aim.

#### **Civic Engagement Results**

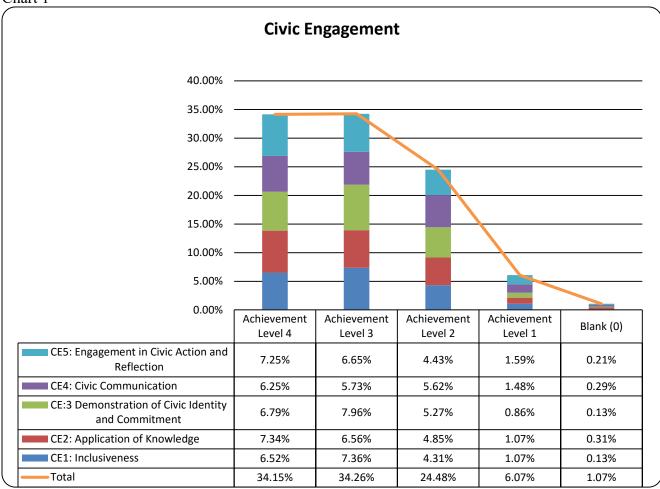
Table 9 shows the college-wide Civic Engagement learning outcome score for Fall 2016-Spring 2017. In calculating the average score, blanks were given a score of zero. Therefore, the average score is on a scale of 0 to 4, with four being the highest level of achievement.

Chart 1 shows the percentage of students scoring at each achievement level per descriptor.

Table 11

| 1 11 11   |     |     |      |  |  |
|---|-----|-----|------|--|--|
| Fall 2016-Spring 2017 - Assessment – All Locations          |     |     |      |  |  |
| Learning Outcome # of Students # of Assessments Average Sco |     |     |      |  |  |
| Civic Engagement  | 718 | 735 | 2.92 |  |  |

#### Chart 1



- 68.41% of Civic Engagement assessments were rated at achievement level 4 or achievement level 3
- <u>CE2: Application of Knowledge</u> assessed more students at achievement level 4 (7.34%) than the other descriptors assessing at achievement level 4
- <u>CE3: Demonstration of Civic Identity and Commitment</u> assessed more students at achievement level 3 (7.96%) than the other descriptors assessing at achievement level 3
- <u>CE4: Civic Communication</u> assessed more students at achievement level 2 (5.62%) than the other descriptors assessing at achievement level 2
- <u>CE5: Engagement in Civic Action and Reflection</u> assessed more students at achievement level 1 (1.59%) than the other descriptors assessing at achievement level 1

#### Communication

#### **Definition**

Communication: Purposeful development, expression, or reception of a message through oral, written, or non-verbal means. See Appendix A for Scoring Guidelines.

#### **Descriptors**

- 1. Purpose: Establish a clear central focus for a message, which demonstrates an understanding of context, audience and task.
- 2. Content: Develop appropriate, relevant content logically sequencing ideas and information.
- 3. Language: Apply language of a discipline in an appropriate and accurate manner to demonstrate comprehension.
- 4. Execution: Convey a message effectively.
- 5. Reception: Utilize appropriate oral, written, or non-verbal means to receive or interpret a message effectively.

#### **Communication Results**

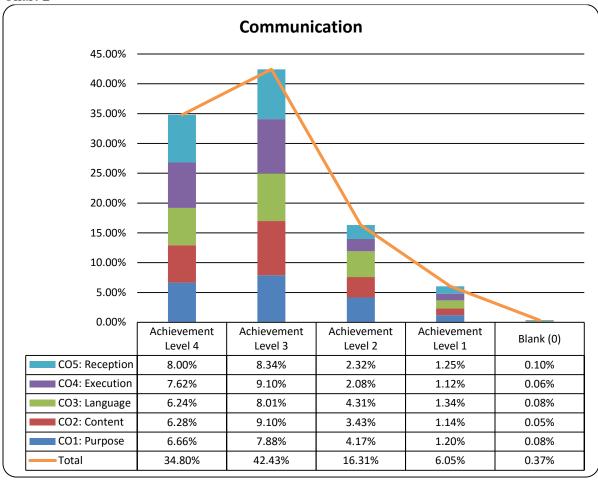
Table 10 shows the college-wide Communication learning outcome score for Fall 2016-Spring 2017. In calculating the average score, blanks were given a score of zero. Therefore, the average score is on a scale of 0 to 4, with four being the highest level of achievement.

Chart 2 shows the percentage of students scoring at each achievement level per descriptor.

Table 12

| Fall 2016-Spring 2017 - Assessment – All Locations |   |       |      |  |  |  |  |  |  |
|--|---|-------|------|--|--|--|--|--|--|
| Learning Outcome                                   | Learning Outcome # of Students # of Assessments Average Score |       |      |  |  |  |  |  |  |
| Communication                                      | 1,989   | 2,233 | 3.04 |  |  |  |  |  |  |

Chart 2



- 42.43% of Communication assessments were rated at achievement level 3
- <u>CO5: Reception</u> assessed more students at achievement level 4 (8.00%) than the other descriptors assessing at achievement level 4
- <u>CO4: Execution</u> and <u>CO2: Content</u> assessed more students at achievement level 3 (9.10%) than the other descriptors assessing at achievement level 3
- <u>CO3: Language</u> assessed more students at achievement level 2 (4.31%) than the other descriptors assessing at achievement level 2
- Less than 2% of students assessed at achievement level 1 for each descriptors

#### **Critical Thinking**

#### **Definition**

Critical Thinking: The mental process of effectively identifying, determining, gathering, evaluating, and utilizing resources to innovate and/or to accomplish a specific task. See Appendix A for Scoring Guidelines.

#### **Descriptors**

- 1. Identify Issue: Identity and interpret a problem or issue.
- 2. Determine Needs: Determine resources needed.
- 3. Gather Resources: Gather resources effectively and efficiently.
- 4. Evaluate Resources: Evaluate resources critically.
- 5. Utilize Resources: Utilize resources effectively and creatively to innovate and/or to accomplish a specific task.
- 6. Assess Results: Assess and evaluate results.

#### **Critical Thinking Results**

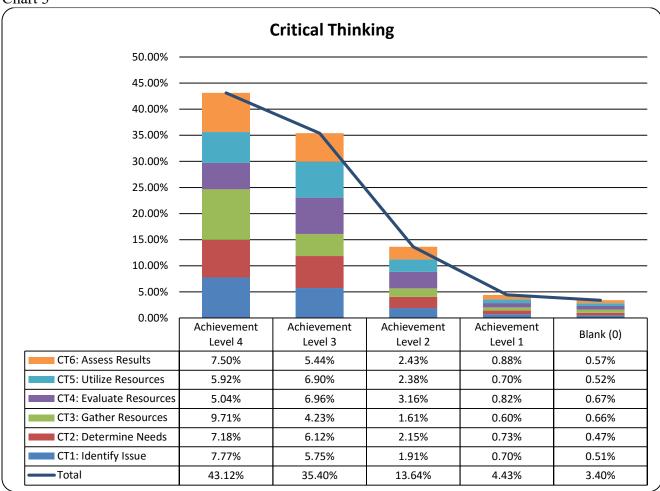
Table 11 shows the college-wide Critical Thinking learning outcome score for Fall 2016-Spring 2017. In calculating the average score, blanks were given a score of zero. Therefore, the average score is on a scale of 0 to 4, with four being the highest level of achievement.

Chart 3 shows percentage of students scoring at each achievement level per descriptor.

Table 13

| Fall 2016-Spring 2017 - Assessment – All Locations          |       |       |      |  |  |  |  |  |  |
|---|-------|-------|------|--|--|--|--|--|--|
| Learning Outcome # of Students # of Assessments Average Sco |       |       |      |  |  |  |  |  |  |
| Critical Thinking   | 1,926 | 2,056 | 3.05 |  |  |  |  |  |  |

#### Chart 3



- 78.52% of Critical Thinking assessments were rated at achievement level 4 or achievement level 3
- <u>CT3: Gather Resources</u> assessed more students at achievement level 4 (9.71%) than the other descriptors assessing at achievement level 4
- <u>CT4: Evaluate Resources</u> assessed more students at achievement level 3 (6.96%) than the other descriptors assessing at achievement level 3
- <u>CT4: Evaluate Resources</u> assessed more students at achievement level 2 (3.16%) than the other descriptors assessing at achievement level 2
- <u>CT6</u>: <u>Assess Results</u> assessed more students at achievement level 1 (0.88%) than the other descriptors assessing at achievement level 1

#### **Cultural and Global Engagement**

#### **Definition**

Cultural and Global Engagement: Encompasses the awareness of cultural systems, events, and creations and an ability to apply this cultural and global awareness to human interaction and expression. See Appendix A for Scoring Guidelines.

#### **Descriptors**

- 1. Cultural Knowledge: Identify cultural systems, events, or creations.
- 2. Global Influences: Identify the global forces that shape cultural subculture.
- 3. Cultural and Global Self Awareness: Analyze and explain the impact of culture and experience on one's worldview and behavior, including stereotypes, assumptions, biases, and prejudices.
- 4. Cultural and Global Awareness: Analyze and explain the impact of historical events, perspectives, or cultures on world societies, human interaction and expression, and the natural environment.
- 5. Inclusiveness: Demonstrate a willingness and ability to engage with other cultures and global societies.
- 6. Cultural Expression: Generate ideas, creations, or models that express the human condition and our relationship with the world around us.

#### **Cultural and Global Engagement Results**

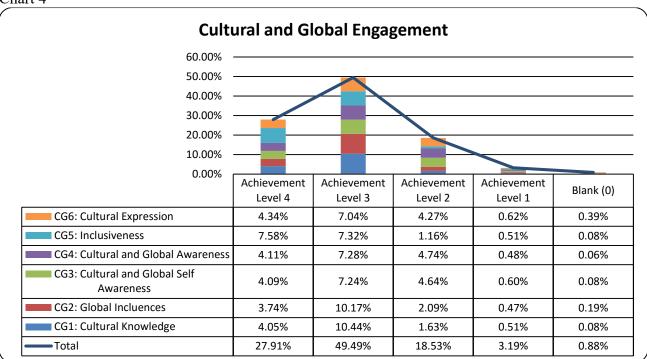
Table 12 shows the college-wide Cultural and Global Engagement learning outcome score for Fall 2016-Spring 2017. In calculating the average score, blanks were given a score of zero. Therefore, the average score is on a scale of 0 to 4, with four being the highest level of achievement.

Chart 4 shows the percentage of students scoring at each achievement level per descriptor.

Table 14

| Fall 2016-Spring 2017 - Assessment – All Locations            |       |       |      |  |  |  |  |
|---|-------|-------|------|--|--|--|--|
| Learning Outcome # of Students # of Assessments Average Score |       |       |      |  |  |  |  |
| Cultural and Global Engagement                                | 1,069 | 1,127 | 3.00 |  |  |  |  |

#### Chart 4



- 49.49% of Cultural and Global assessments were rated at achievement level 3
- <u>CG5: Inclusiveness</u> assessed more students at achievement level 4 (7.58%) than the other descriptors assessing at achievement level 4
- <u>CG1: Cultural Knowledge</u> assessed more students at achievement level 3 (10.44%) than the other descriptors assessing at achievement level 3
- <u>CG4: Cultural and Global Awareness</u> assessed more students at achievement level 2 (4.74%) than the other descriptors assessing at achievement level 2
- Less than 1% of students assessed at achievement level 1 for each descriptors

# VI. Indirect Measures of Student Learning

In addition to the direct measures of the achievement of student learning provided by evaluating the results of the assessments administered to students annually, a number of indirect measures of student learning are collected at the college. These indirect measures provide further evidence of student learning; results from several indirect measures are presented in this section.

#### **Graduate Exit Survey**

Upon application for graduation, all students are asked to complete an on-line survey. Of the 2,258 students who received a degree or certificate award from MCC during FY 2016-2017, 1,608 submitted valid graduate exit surveys. A relatively small number of invalid responses may be due to students entering incorrect identification numbers in the survey, or students failing to complete requirements needed to graduate after initially completing the survey.

Students are asked the extent to which the college experience has prepared them to transfer to a four-year college or university. The mean scores and share of students who say they are "very well prepared" for transfer has remained stable over the last ten years with a percentage decrease AY 2013-2014 as illustrated in Table 15.

Table 15

| 14010 15   | Table 13 |     |     |     |     |     |     |     |     |     |
|--|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Mesa Community College<br>Graduate Exit Survey Results<br>"How well prepared do you feel to transfer?" |          |     |     |     |     |     |     |     |     |     |
| AY A   |          |     |     |     |     |     |     |     |     |     |
| Mean score (scale  |          |     |     |     |     |     |     |     |     |     |
| 1-4)   | 3.6      | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 | 3.6 | 3.6 | 3.6 |
| Very prepared  | 65%      | 61% | 61% | 60% | 59% | 61% | 46% | 63% | 61% | 66% |
| Somewhat   |          |     |     |     |     |     |     |     |     |     |
| prepared   | 32%      | 37% | 36% | 36% | 38% | 36% | 50% | 35% | 36% | 32% |
| Somewhat   |          |     |     |     |     |     |     |     |     |     |
| unprepared   | 2%       | 1%  | 2%  | 2%  | 2%  | 2%  | 3%  | 2%  | 2%  | 2%  |
| Very unprepared  | 1%       | <1% | <1% | 1%  | <1% | <1% | <1% | <1% | <1% | <1% |

The responses of a subset of students whose educational goals are in a Career and Technical field are presented in Table 16. Students were asked, "How well prepared do you feel for entering the workplace?" The mean preparedness score has remained stable over the past several years.

Table 16

| 1 4016 10  |  |     |     |     |     |     |     |     |     |     |  |
|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Mesa Community College<br>Graduate Exit Survey Results |  |     |     |     |     |     |     |     |     |     |  |
|  | "How well prepared do you feel for entering the workplace?"  |     |     |     |     |     |     |     |     |     |  |
|  | AY         2015-         AY 2015-         AY 2016-           2007-         2008-         2009-         2010-         2011-         2012-         2013-         2014-         2016-         2017           2008-         2009-         2010-         2011-         2012-         2013-         2014-         2015-         2016-         2017 |     |     |     |     |     |     |     |     |     |  |
| Mean Score (scale                                      |  |     |     |     |     |     |     |     |     |     |  |
| 1-4)   | 3.6  | 3.7 | 3.7 | 3.5 | 3.5 | 3.4 | 3.2 | 3.4 | 3.4 | 3.4 |  |
| Very prepared  | 69%  | 71% | 70% | 57% | 53% | 50% | 30% | 49% | 47% | 52% |  |
| Somewhat   |  |     |     |     |     |     |     |     |     |     |  |
| prepared   | 26%  | 29% | 28% | 39% | 42% | 44% | 63% | 46% | 47% | 43% |  |
| Somewhat   | Somewhat   |     |     |     |     |     |     |     |     |     |  |
| unprepared   | 3%   | 0%  | 1%  | 4%  | 4%  | 5%  | 6%  | 4%  | 5%  | 4%  |  |
| Very unprepared  | 1%   | 0%  | <1% | 0%  | 1%  | <1% | 1%  | 1%  | 1%  | 1%  |  |

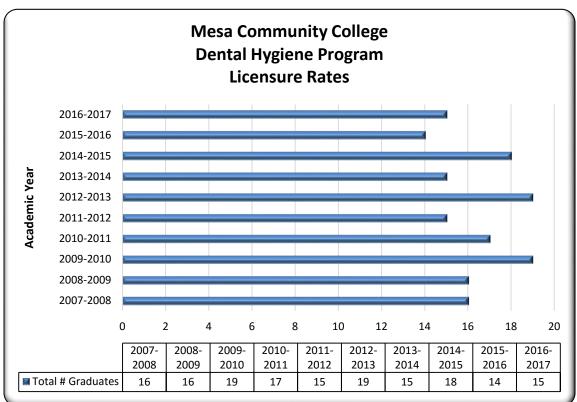
#### **Licensure and Certification**

Students in Dental Hygiene, Fire Science, Mortuary Science, Network Academy, Nursing, and Veterinary Technology programs are able to receive licensure from outside licensure bodies after their studies at MCC. Data on licensure is presented below for these programs.

#### Dental Hygiene

Dental hygiene students take a national written exam, a regional practical and written exam, and a state written jurisprudence exam. Students must pass all exams in order to obtain a license to practice. Results are obtained from the national and regional examining bodies.

Chart 5



#### Fire Science and EMT

The MCC Fire Science program offers certification in several areas as detailed in Tables 17-18. The Fire Fighter I and II Certification and the Hazardous Materials First Responder are both granted by the Arizona State Fire Marshall's Office. The actual success rate of attainment of the certificates may be underestimated because only the initial attempt at passage is reported back to the college. Students have three chances to pass the certification.

Table 17

| Fire Science and                              | EMT Licensing Agencies   |
|---|--|
| License/Certification                         | Agency   |
| Candidate Physical Agility Test (FSC 130)     | International Association of Firefighters                                    |
| Candidate I hysical Aginty Test (FSC 150)     | International Fire Chiefs Association  |
| Hazardous Materials/First Responder (FSC 105) | Arizona Center for Fire Service Excellence                                   |
| Fire Operations (FSC 102)                     | Arizona Center for Fire Service Excellence                                   |
| Wildland Firefighter (FSC 110)                | Arizona Bureau of Land Management  |
| Paramedic (EMT 272)                           | Arizona State Department of Health Services and<br>National Registry of EMTs |
| EMT (EMT 104)                                 | Arizona State Department of Health Services and<br>National Registry of EMTs |
| Fire Investigation                            | Arizona International Association of Arson Investigators                     |
| Cardiopulmonary Resuscitation (EMT 101)       | American Heart Association   |

Table 18

| Mesa Community College - Fire Science/EMT Passage Rates |         |                   |      |                    |        |      |                    |        |      |  |  |
|---|---------|-------------------|------|--------------------|--------|------|--------------------|--------|------|--|--|
| License/Certification                                   | Spring/ | pring/Summer 2015 |      | Spring/Summer 2016 |        |      | Spring/Summer 2017 |        |      |  |  |
| License/Cerunication                                    | Attempt | Passed            | %    | Attempt            | Passed | %    | Attempt            | Passed | %    |  |  |
| Wildland Firefighter                                    |         |                   |      |                    |        |      |                    |        |      |  |  |
| (FSC 110)   | 14      | 14                | 100% | 0                  | 0      | 0    | 21                 | 21     | 100% |  |  |
| Fire Department   |         |                   |      |                    |        |      |                    |        |      |  |  |
| Operations (FSC 102)                                    | 31      | 31                | 100% | 20                 | 17     | 85%  | 19                 | 19     | 100% |  |  |
| Hazardous   |         |                   |      |                    |        |      |                    |        |      |  |  |
| Materials/First   |         |                   |      |                    |        |      |                    |        |      |  |  |
| Responder (FSC105)                                      | 37      | 36                | 97%  | 43                 | 36     | 84%  | 38                 | 30     | 79%  |  |  |
| Candidate Physical                                      |         |                   |      |                    |        |      |                    |        |      |  |  |
| Ability Test (FSC 130)                                  | 31      | 19                | 61%  | 25                 | 17     | 68%  | 30                 | 18     | 60%  |  |  |
| Cardiopulmonary   |         |                   |      |                    |        |      |                    |        |      |  |  |
| Resuscitation (EMT                                      |         |                   |      |                    |        |      |                    |        |      |  |  |
| 101)  | 241     | 241               | 100% | 223                | 223    | 100% | 349                | 349    | 100% |  |  |
| EMT (EMT 104: 3   |         |                   |      |                    |        |      |                    |        |      |  |  |
| attempts are allowed)                                   | 134     | 119               | 89%  | 145                | 125    | 86%  | 125                | 108    | 86%  |  |  |
| Paramedic (EMT 272: 3                                   |         |                   |      |                    |        |      |                    |        |      |  |  |
| attempts are allowed)                                   | 25      | 24                | 96%  | 23                 | 23     | 100% | 20                 | 18     | 90%  |  |  |

#### Mortuary Science

The students in the Mortuary Science program must take the National Board Examination (NBE) to graduate. Most states accept the scores on the NBE in lieu of having their own state exam. The National Board Exam is administered by the International Conference of Funeral Service Examining Boards. Licensure is on a state-by-state basis. There are two components of the NBE, Funeral Service Arts and Funeral Service Science. In 2008, the International Conference of Funeral Service Examining Boards began to report the pass rate of the two components separately. The statistics reported in Table 19 reflects NBE passage rates before the exam was broken down into components. Table 20 reflects the new manner in which scores are reports.

According to the Mortuary Science program director, almost all graduates eventually pass the exam and are licensed. Due to addition, state licensure requires beyond the NBE such as internships, students may not receive state licensure for several years after graduation from the Mortuary Science program. About one-third of students in the program are from out-of-state.

Table 19

| 1 4010 17  |           |            |             |      |              |  |  |  |  |
|--|-----------|------------|-------------|------|--------------|--|--|--|--|
| Mesa Community College Mortuary Science Examinations |           |            |             |      |              |  |  |  |  |
| #   National Pass                                    |           |            |             |      |              |  |  |  |  |
|  | Graduates | Passed lic | ensure exam | Rate | Licensed     |  |  |  |  |
| 1999-2000  | 22        | 20         | 91%         | 82%  | 20           |  |  |  |  |
| 2000-2001  | 14        | 13         | 93%         | 86%  | 11           |  |  |  |  |
| 2001-2002  | 17        | 17         | 100%        | 85%  | 16           |  |  |  |  |
| 2002-2003  | 21        | 19         | 95%         | 84%  | 15           |  |  |  |  |
| 2003-2004  | 29        | 26         | 90%         | 67%  | 17           |  |  |  |  |
| 2004-2005  | 16        | 12         | 75%         | 74%  | 16           |  |  |  |  |
| 2005-2006  | 25        | 22         | 88%         | 72%  | 19           |  |  |  |  |
| 2006-2007  | 21        | 14         | 67%         | 70%  | Not Reported |  |  |  |  |

Table 20

| Mesa Community College<br>Mortuary Science National Board Examinations |  |    |      |     |    |      |     |  |  |  |
|--|--|----|------|-----|----|------|-----|--|--|--|
|  | Graduates Funeral Service Arts Funeral Service Science |    |      |     |    |      |     |  |  |  |
|  | #  | #  | Pass | %   | #  | Pass | %   |  |  |  |
| 2007-2008  | 22   | 23 | 18   | 78% | 25 | 19   | 76% |  |  |  |
| 2008-2009  | 13   | 16 | 12   | 75% | 14 | 9    | 64% |  |  |  |
| 2009-2010  | 27   | 27 | 24   | 89% | 26 | 21   | 81% |  |  |  |
| 2010-2011  | 30   | 29 | 21   | 72% | 29 | 24   | 83% |  |  |  |
| 2011-2012  | 34   | 34 | 25   | 74% | 34 | 27   | 79% |  |  |  |
| 2012-2013  | 25   | 25 | 19   | 76% | 26 | 21   | 81% |  |  |  |
| 2013-2014  | 29   | 29 | 21   | 72% | 33 | 25   | 76% |  |  |  |
| 2014-2015  | 35   | 27 | 19   | 70% | 24 | 17   | 71% |  |  |  |

Note: July 1, 2016 the Mortuary Science program moved from MCC to Chandler-Gilbert Community College

#### Network Academy

The Network Academy offers certification pathways in Network Administration, Network Security, Microsoft, Red Hat Linux, VMware, Information Assurance, and Workplace Skills. Training formats include fast tracks, traditional semesters, distance learning, and internet deliveries. Network Academy students earn industry certification after completion of the program; however, there is not a formal mechanism for reporting certifications back to the program.

#### **Nursing**

Nursing students who complete a four semester curriculum and receive the Associate of Applied Science degree are eligible to take an exam to become licensed through the National Council of State Boards of Nursing Examination for Nursing (NCLEX RN) licensure exam; pass rates are detailed in Table 21 below.

Table 21

| Mesa Community College                      |                      |  |                             |  |  |  |  |  |
|---|----------------------|--|-----------------------------|--|--|--|--|--|
| <b>Nursing Program NCLEX RN Examination</b> |                      |  |                             |  |  |  |  |  |
|   | Total #<br>Graduates | #<br>Graduates<br>Taking<br>NCLEX<br>RN Exam | Pass Rate of<br>Exam Takers |  |  |  |  |  |
| Spring 2007                                 | 75                   | 75   | 92%                         |  |  |  |  |  |
| Fall 2007                                   | 50                   | 47   | 98%                         |  |  |  |  |  |
| Spring 2008                                 | 106                  | 106  | 97%                         |  |  |  |  |  |
| Fall 2008                                   | 105                  | 105  | 96%                         |  |  |  |  |  |
| Spring 2009                                 | 93                   | 93   | 97%                         |  |  |  |  |  |
| Fall 2009                                   | 50                   | 50   | 98%                         |  |  |  |  |  |
| Spring 2010 - S&D                           | 98                   | 98   | 100%                        |  |  |  |  |  |
| Spring 2010 -<br>Boswell                    | 46                   | 45   | 100%                        |  |  |  |  |  |
| Spring 2011 - S&D                           | 60                   | 58   | 91%                         |  |  |  |  |  |
| Spring 2011 -<br>Boswell                    | 45                   | 44   | 100%                        |  |  |  |  |  |
| Spring 2012 - S&D                           | 52                   | 52   | 100%                        |  |  |  |  |  |
| Spring 2012 -<br>Boswell                    | 55                   | 54   | 98%                         |  |  |  |  |  |
| Spring 2013 - S&D                           | 53                   | 50   | 98%                         |  |  |  |  |  |
| Spring 2013 -<br>Boswell                    | 25                   | 25   | 100%                        |  |  |  |  |  |
| Spring 2014                                 | 67                   | 66   | 100%                        |  |  |  |  |  |
| Spring 2015                                 | 84                   | 83   | 95%                         |  |  |  |  |  |
| Spring 2016                                 | 83                   | 78   | 96%                         |  |  |  |  |  |
| Spring 2017                                 | 83                   | 73   | 95%                         |  |  |  |  |  |

Note: Boswell closed Dec 1, 2013

#### Veterinary Technology

Graduates of the MCC Veterinary Technology Program are required to complete two semesters of prerequisite coursework in order to qualify to formally apply for admission to the Program proper. After a selective admission process, the Program proper consists of a five-semester curriculum leading to the Associate of Applied Science in Veterinary Technology/Animal Health. Graduates are immediately eligible to "sit" for the Veterinary Technician National Examination (VTNE) and the Arizona state Veterinary Technician certification examination. The VTNE is administered by the Professional Examination Service, and the state certification examination is administered by the Arizona State Veterinary Medical Examining Board. Upon passing both the VTNE and the state certification examination, the successful candidate is granted certification as a Certified Veterinary Technician by the state of Arizona.

Table 22

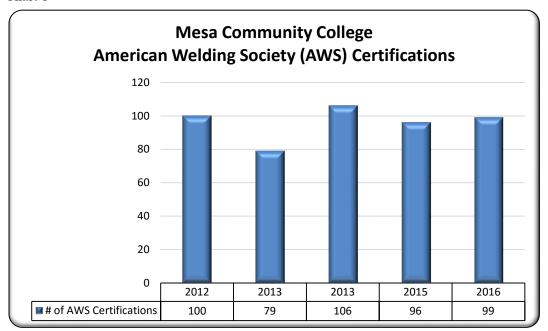
| Mesa Community College<br>Veterinary Technology Board Exam Pass Rates |  |      |      |  |  |  |  |  |  |  |  |
|---|--|------|------|--|--|--|--|--|--|--|--|
|   | Graduates % Passed State Exam % Passed National Ex |      |      |  |  |  |  |  |  |  |  |
| 2007-2008   | 5  | 100% | 100% |  |  |  |  |  |  |  |  |
| 2008-2009   | 4  | 100% | 100% |  |  |  |  |  |  |  |  |
| 2009-2010   | 8  | 100% | 100% |  |  |  |  |  |  |  |  |
| Fall 2010   | 4  | 100% | 100% |  |  |  |  |  |  |  |  |
| Spring 2011   | 4  | 100% | 100% |  |  |  |  |  |  |  |  |
| Fall 2011   | 0  | N/A  | N/A  |  |  |  |  |  |  |  |  |
| Spring 2012   | 2  | 100% | 100% |  |  |  |  |  |  |  |  |
| Fall 2012   | 2  | 100% | 100% |  |  |  |  |  |  |  |  |
| Spring 2013   | 8  | 100% | 100% |  |  |  |  |  |  |  |  |
| Fall 2013   | 2  | 50%  | 50%  |  |  |  |  |  |  |  |  |
| Spring 2014   | 13   | 85%  | 85%  |  |  |  |  |  |  |  |  |
| Fall 2014   | 0  | N/A  | N/A  |  |  |  |  |  |  |  |  |
| Spring 2015   | 15   | 93%  | 93%  |  |  |  |  |  |  |  |  |
| Fall 2015   | 0  | N/A  | N/A  |  |  |  |  |  |  |  |  |
| Spring 2016   | 10   | 100% | 100% |  |  |  |  |  |  |  |  |
| Fall 2016   | 0  | N/A  | N/A  |  |  |  |  |  |  |  |  |
| Spring 2017   | 10 (6 sat for boards)                              | 100% | 100% |  |  |  |  |  |  |  |  |

#### Welding

Welding students who are on the path to gain a Certificate of Completion (CCL) in Welding develop skills in oxyacetylene (gas) and electric (arc) welding. The CCL in Welding has an emphasis on preparing students for the American Welding Society Arc certification exam.

The number of MCC students receiving the AWS Welding Certifications since 2012 are shown in Chart 6.

Chart 6



Industry welding certifications students received include:

- SMAW Plate
- FCAW Plate
- GMAW Plate
- GTAW Aluminum Sheet
- GTAW Stainless Steel Sheet
- GTAW Carbon Steel Sheet and
- GTAW/SMAW Pipe Certifications

#### **Course Completion**

Data about course completion is provided for Fall semesters in Table 23. The percentages of successful/unsuccessful students completing a course and those withdrawing from a course have remained relatively stable.

Table 23

| Mesa Community College - Course Completion |                            |                        |                        |                |  |  |  |  |  |
|--|----------------------------|------------------------|------------------------|----------------|--|--|--|--|--|
|  | Successful<br>(A, B, C, P) | Unsuccessful (D, F, Z) | Completer<br>Sub-total | Withdrew (W,Y) |  |  |  |  |  |
| Fall 2007                                  | 68%                        | 8%                     | 77%                    | 23%            |  |  |  |  |  |
| Fall 2008                                  | 70%                        | 9%                     | 78%                    | 22%            |  |  |  |  |  |
| Fall 2009                                  | 70%                        | 9%                     | 79%                    | 21%            |  |  |  |  |  |
| Fall 2010                                  | 69%                        | 9%                     | 78%                    | 22%            |  |  |  |  |  |
| Fall 2011                                  | 69%                        | 10%                    | 79%                    | 21%            |  |  |  |  |  |
| Fall 2012                                  | 70%                        | 10%                    | 80%                    | 20%            |  |  |  |  |  |
| Fall 2013                                  | 72%                        | 10%                    | 82%                    | 18%            |  |  |  |  |  |
| Fall 2014                                  | 73%                        | 10%                    | 83%                    | 17%            |  |  |  |  |  |
| Fall 2015                                  | 74%                        | 10%                    | 84%                    | 16%            |  |  |  |  |  |
| Fall 2016                                  | 74%                        | 10%                    | 84%                    | 16%            |  |  |  |  |  |

#### Persistence

Cohorts of new full time students were followed for two semesters to track their enrollment in the college. Students are further grouped based upon what they declared as their intent at the time of registration. The tables below show the overall persistence of new full time students who started attending MCC in Fall 2015 and Fall 2016.

Table 24

| Mesa Community College<br>New Full Time Student Persistence |                    |                                    |        |       |        |
|---|--------------------|------------------------------------|--------|-------|--------|
|   | Enrolled Fall 2015 | Remained Spring Remained 2016 2016 |        |       |        |
| Full time total new students                                | 1,855              | 1,634                              | 89.19% | 1,154 | 64.45% |
| Full time new transfer students                             | 1,193              | 1,060                              | 89.08% | 763   | 64.83% |
| Full time new career students                               | 370                | 314                                | 87.96% | 214   | 62.30% |

Table 25

| Mesa Community College            |                               |       |        |           |        |  |
|-----------------------------------|-------------------------------|-------|--------|-----------|--------|--|
| New Full Time Student Persistence |                               |       |        |           |        |  |
|                                   | Remained Spring Remained Fall |       |        | ined Fall |        |  |
|                                   | Enrolled Fall 2016            | 2017  |        | 2         | 2017   |  |
| Full time total new students      | 1,668                         | 1,473 | 88.63% | 1,040     | 63.34% |  |
| Full time new transfer students   | 1,295                         | 1,150 | 89.01% | 830       | 64.89% |  |
| Full time new career students     | 404                           | 344   | 88.43% | 236       | 62.60% |  |

Note: High school and graduating students not included.

#### **Degree and Certificate Awards**

MCC conferred 2,235 degrees and 2,063 certificates in FY 2016-17. This is a decrease of degrees and certificates conferred from FY 2015-2016.

Table 26

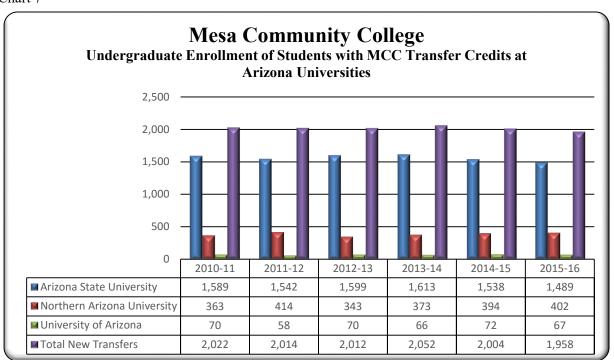
|                           | Awards FY 2014-2015   Awards FY 2015-2016 |                    | Awards 1      |                    |               |                    |           |
|---------------------------|---|--------------------|---------------|--------------------|---------------|--------------------|-----------|
| Degree Type               | #<br>Awarde d                             | % of All<br>Awards | #<br>Awarde d | % of All<br>Awards | #<br>Awarde d | % of All<br>Awards | Trend     |
| AA                        | 1,055                                     | 24%                | 1,102         | 24%                | 1,088         | 25%                | )         |
| AAS                       | 613                                       | 14%                | 600           | 13%                | 588           | 14%                | /         |
| AB                        | 120                                       | 3%                 | 171           | 4%                 | 160           | 4%                 | )         |
| AGS                       | 195                                       | 4%                 | 180           | 4%                 | 207           | 5%                 | $\langle$ |
| AS                        | 180                                       | 4%                 | 187           | 4%                 | 192           | 4%                 | /         |
| <b>Total Degrees</b>      | 2,163                                     | 49%                | 2,240         | 49%                | 2,235         | 52%                | )         |
| AC                        | 40  | 1%                 | 41            | 1%                 | 36            | 1%                 | )         |
| AGEC                      | 1,381                                     | 32%                | 1,482         | 33%                | 1,440         | 33%                | )         |
| CCL                       | 783                                       | 18%                | 778           | 17%                | 587           | 14%                |           |
| <b>Total Certificates</b> | 2,204                                     | 51%                | 2,301         | 51%                | 2,063         | 48%                |           |
| Total All                 | 4,367                                     | 100%               | 4,541         | 100%               | 4,298         | 100%               | >         |

Note: Awards are reported by Fiscal Year (FY), which runs from July 1 to June 30

#### Transfer

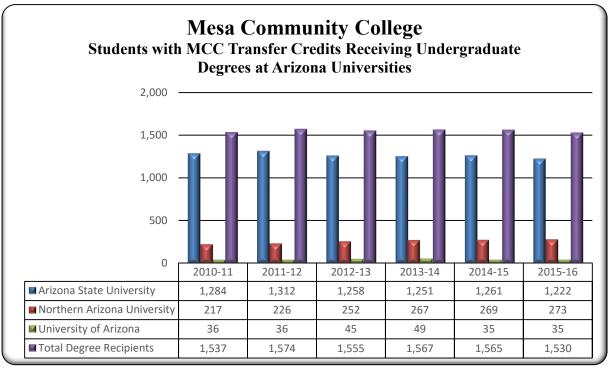
The number of students with 12 or more MCC transfer credits enrolled in an Arizona university as new transfers in Fall and Spring semesters and the number of degree recipients with MCC transfer credits are described in the following charts.

Chart 7



Source: Assist Data Warehouse

Chart 8



Source: Assist Data Warehouse

### **Developmental Education Course Completion and Subsequent Success**

The overall course completion for developmental reading, English and math students is detailed in the table that follows. While withdrawal rates in developmental courses decreased each Fall semester from 2005 to 2011, there was a slight increase in 2012, and a decrease 2013, 2014 and 2015. The withdrawal rates stayed constant from 2015 to 2016.

Table 27

|           | Mesa Community College Developmental Education Course Completion |                        |                        |                |  |
|-----------|--|------------------------|------------------------|----------------|--|
|           | Successful (A, B, C, P)  | Unsuccessful (D, F, Z) | Completer<br>Sub-total | Withdrew (W,Y) |  |
| Fall 2005 | 48%  | 16%                    | 64%                    | 36%            |  |
| Fall 2006 | 51%  | 14%                    | 65%                    | 35%            |  |
| Fall 2007 | 53%  | 14%                    | 67%                    | 33%            |  |
| Fall 2008 | 57%  | 13%                    | 70%                    | 30%            |  |
| Fall 2009 | 59%  | 14%                    | 73%                    | 27%            |  |
| Fall 2010 | 61%  | 14%                    | 75%                    | 25%            |  |
| Fall 2011 | 60%  | 17%                    | 77%                    | 23%            |  |
| Fall 2012 | 56%  | 19%                    | 75%                    | 25%            |  |
| Fall 2013 | 60%  | 17%                    | 77%                    | 23%            |  |
| Fall 2014 | 63%  | 18%                    | 81%                    | 19%            |  |
| Fall 2015 | 67%  | 15%                    | 82%                    | 18%            |  |
| Fall 2016 | 66%  | 16%                    | 82%                    | 18%            |  |

Of students that were successful in a developmental course, performance in subsequent 100 level or higher courses in the following year is described in Table 28. The subsequent success rates for Fall 2009, Fall 2011 and Fall 2015 developmental student cohorts are the highest success rate in this nine-year trend.

Table 28

2013

2016

Fall 2013 followed through Fall

Fall 2014 followed through Fall

Fall 2015 followed through Fall

#### **Mesa Community College Developmental Education students** Subsequent success in 100 level or Above Course Successful in Unsuccessful Withdrew Did not any 100+ level in all from all enroll in subsequent subsequent subsequent subsequent course 100+ level courses courses course Fall 2007 followed through Fall 10% 2008 70% 5% 15% Fall 2008 followed through Fall 72% 6% 7% 15% Fall 2009 followed through Fall 2010 76% 5% 8% 11% Fall 2010 followed through Fall 2011 75% 5% 9% 11% Fall 2011 followed through Fall 2012 76% 4% 7% 12% Fall 2012 followed through Fall

6%

6%

6%

5%

7%

8%

6%

6%

14%

13%

13%

14%

74%

73%

74%

76%

# Appendix A

# MCC's 4Cs Scoring Guidelines

# **Scoring Guidelines**

**Civic Engagement Scoring Guidelines** 

| <b>DEFINITION:</b> Civic engagement encompasses actions to promote the quality of life in a community, through both political                     |   |   |  |   |  |
|---|---|---|--|---|--|
| and non-political processes.  |   |   |  |   |  |
| Descriptors:  | Achievement Level 4   | Achievement Level 3   | Achievement Level  | Achievement Level   |  |
| 1. INCLUSIVENESS: Demonstrate an ability to engage respectfully with others in a diverse society  | DEMONSTRATES EVIDENCE of ENGAGING RESPECTFULLY with diverse communities in an INTENTIONAL and REFLECTIVE WAY to promote, lead, and advocate civic action  | DEMONSTRATES EVIDENCE of ENGAGING RESPECTFULLY with diverse communities to further civic action   | DEMONSTRATES EVIDENCE of HAVING PARTICIPATED with diverse communities to further civic action              | FAILS TO DEMONSTRATE EVIDENCE OF PARTICIPATING with diverse communities                                     |  |
| 2. APPLY KNOWLEDGE: Apply the knowledge from one's own study and experiences to active and ethical participation in civic life                    | CONNECT one's knowledge to one's actions in an INTENTIONAL, REFLECTIVE, and ETHICAL civic life  | CONNECT one's<br>knowledge to one's<br>actions in an<br>ETHICAL civic life  | CONNECT one's<br>knowledge to civic<br>engagement and<br>participation                                     | LACKS the<br>knowledge<br>REQUIRED TO<br>CONNECT to civic<br>engagement and<br>participation                |  |
| 3. DEMONSTRATION OF CIVIC IDENTITY AND COMMITMENT: Provide evidence of experience in and reflection on civic engagement activities                | DEMONSTRATES INTENTIONAL REFLECTION on one's own civic identity and the ability to PROMOTE, LEAD and ADVOCATE civic action  | DEMONSTRATES REFLECTION on one's own civic identity and the ability to PROMOTE and ADVOCATE civic action  | DEMONSTRATES AWARENESS of one's own civic identity and LIMITED EXPERIENCE in civic engagement activities   | DEMONSTRATES LIMITED AWARENESS of one's own civic identity and NO EXPERIENCE in civic engagement activities |  |
| 4. CIVIC COMMUNICATION: Communicate and listen to others in order to establish personal and professional relationships to further civic action    | COMMUNICATES<br>and LISTENS<br>EFFECTIVELY and<br>INTENTIONALLY in<br>a variety of contexts to<br>INITIATE and<br>SUSTAIN civic action  | COMMUNICATES<br>and LISTENS<br>EFFECTIVELY in a<br>variety of contexts to<br>FOSTER civic action  | COMMUNICATES<br>and LISTENS with<br>others in a limited<br>number of contexts<br>to FOSTER civic<br>action | DEMONSTRATES LIMITED ABILITY TO COMMUNICATE and LISTEN with others to engage in civic action                |  |
| 5. ENGAGEMENT IN CIVIC ACTION AND REFLECTION: Demonstrate the ability to deliberate and collaborate on issues and problems to achieve a civic aim | DEMONSTRATES LEADERSHIP CAPABILITY, REFLECTIVE INSIGHTS, and the ABILITY AND COMMITMENT to work deliberatively and collaboratively across and within community contexts and structures to achieve a civic aim | DEMONSTRATES ABILITY AND COMMITMENT to work deliberatively and collaboratively across and within community contexts and structures to achieve a civic aim | DEMONSTRATES EXPERIENCE identifying intentional ways to participate in civic contexts and structures       | DEMONSTRATES<br>LIMITED<br>experience<br>participating in civic<br>contexts and<br>structures               |  |

# **Communication Scoring Guidelines**

| <b>DEFINITION:</b> Communication is the purposeful development, expression and reception of a message through oral, written |                                  |                             |                         |                                |
|---|----------------------------------|-----------------------------|-------------------------|--------------------------------|
| or nonverbal means.   |                                  |                             |                         |                                |
| Descriptors:  | <b>Achievement Level 4</b>       | Achievement Level 3         | Achievement Level 2     | Achievement                    |
|   |                                  |                             |                         | Level 1                        |
| 1. PURPOSE:   | Purpose is PRECISELY             | Purpose is PRECISELY        | Purpose is STATED       | Purpose is NOT                 |
| Establish a clear   | STATED AND                       | STATED for audience,        | for audience, context,  | CLEARLY                        |
| central focus for a   | MEMORABLE for                    | context, and task           | and task                | STATED for                     |
| message which demonstrates an   | audience, context, and task      |                             |                         | audience, context,<br>and task |
|   | task                             |                             |                         | and task                       |
| understanding of  |                                  |                             |                         |                                |
| context, audience<br>and task   |                                  |                             |                         |                                |
|   | D 1                              | D 1                         | D 1                     | M                              |
| 2. CONTENT:   | Relevant content is              | Relevant content is         | Relevant content is     | Message                        |
| Develop   | developed EXPERTLY,<br>LOGICALLY | developed                   | developed               | developed is<br>SIMPLE and     |
| appropriate, relevant content   |                                  | APPROPRIATELY,<br>LOGICALLY | SPORADICALLY,           | LACKS relevant                 |
|   | sequencing IDEAS<br>AND/OR       |                             | sequencing ONLY POINTS  |                                |
| logically sequencing ideas and/or   | INFORMATION                      | sequencing IDEAS<br>AND/OR  | POINTS                  | content and                    |
| information   | INFORMATION                      | INFORMATION                 |                         | sequencing                     |
| 3. LANGUAGE:  | Language choices and/or          | Language choices and/or     | Language choices        | Language choices               |
| Apply language of a   | modes of expression are          | modes of expression are     | and/or modes of         | and/or modes of                |
| discipline in an  | THOUGHTFUL,                      | THOUGHTFUL AND              | expression are          | expression                     |
| appropriate and   | MEMORABLE,                       | APPROPRIATE to              | APPROPRIATE to          | DETRACT from                   |
| accurate manner to  | COMPELLING AND                   | audience AND discipline     | audience OR discipline  | message                        |
| demonstrate   | APPROPRIATE to                   | audience AND discipline     | addictive OK discipline | illessage                      |
| comprehension   | audience AND                     |                             |                         |                                |
| comprehension   | discipline                       |                             |                         |                                |
| 4. EXECUTION:   | CONSISTENTLY                     | MOSTLY conveys              | SELDOM conveys          | FAILS TO                       |
| Convey a message  | conveys intended                 | intended message            | intended message        | convey intended                |
| effectively   | message                          | intended message            | intended message        | message                        |
| 5. RECEPTION:   | CONSISTENTLY                     | MOSTLY utilizes             | SELDOM utilizes         | FAILS TO utilize               |
| Utilize appropriate   | utilizes appropriate oral,       | appropriate oral, written   | appropriate oral,       | appropriate oral,              |
| oral, written or  | written or nonverbal             | or nonverbal means to       | written or nonverbal    | written or                     |
| nonverbal means to  | means to receive and/or          | receive and/or interpret    | means to receive and/or | nonverbal means                |
| receive and/or  | interpret intended               | intended message            | interpret intended      | to receive and/or              |
| interpret a message   | message                          |                             | message                 | interpret intended             |
| effectively   |                                  |                             |                         | message                        |

## **Critical Thinking Scoring Guidelines**

|  | <b>DEFINITION:</b> Critical thinking is the mental process of effectively identifying, determining, gathering, evaluating and   |   |  |  |  |
|--|---|---|--|--|--|
|  | to innovate and/or to accompl   |   |  |  |  |
| <b>Descriptors:</b>  | Achievement Level 4   | Achievement Level 3   | Achievement Level 2  | Achievement Level 1  |  |
| 1. IDENTIFY<br>ISSUE:<br>Identify and<br>interpret a<br>problem or issue   | Issue/problem CLEARLY identified and described COMPREHENSIVELY, delivering ALL relevant information (terms defined, ambiguities explored, boundaries determined and/or backgrounds provided) necessary for FULL understanding | Issue/problem identified and described, delivering MOST of the relevant information (terms defined, ambiguities explored, boundaries determined and/or backgrounds provided) necessary for ADEQUATE understanding | Issue/problem identified but description leaves SOME terms undefined, ambiguities unexplored, boundaries undetermined and/or backgrounds unknown, impeding understanding | Issue/problem NOT<br>clearly identified and<br>described, FAILING to<br>deliver relevant<br>information necessary<br>for understanding                             |  |
| 2. DETERMINE NEEDS: Determine the resources needed   | EFFECTIVELY AND COMPREHENSIVELY defines the scope of resources needed (key concepts and types of resources) to solve a problem or explore an issue  | DEFINES the scope<br>of resources needed<br>(key concepts and<br>types of resources) to<br>solve a problem or<br>explore an issue   | INCOMPLETELY<br>defines the scope of<br>resources needed (key<br>concepts and types of<br>resources) to solve a<br>problem or explore an<br>issue                        | HAS DIFFICULTY<br>defining the scope of<br>resources needed (key<br>concepts and types of<br>resources) to solve a<br>problem or explore an<br>issue               |  |
| 3. GATHER<br>RESOURCES:<br>Gather resources<br>effectively and<br>efficiently  | Gathers resources from<br>appropriate and relevant<br>sources using a variety of<br>EFFECTIVE, WELL-<br>DESIGNED strategies   | Gathers resources<br>from SOME<br>appropriate and<br>relevant sources using<br>a VARIETY of<br>strategies   | Gathers resources from<br>FEW appropriate and<br>relevant sources using<br>SIMPLE strategies   | FAILS to use resource gathering strategies   |  |
| 4. EVALUATE<br>RESOURCES:<br>Evaluate<br>resources<br>critically   | Evaluation of resources (history of the issue/problem; logic/reasoning; feasibility; impact; own and other's assumptions, bias, authority and relevance) is DEEP and THOROUGH   | Evaluation of resources (history of the issue/problem; logic/reasoning; feasibility; impact; own and other's assumptions, bias, authority and relevance) is ADEQUATE  | Evaluation of resources (history of the issue/problem; logic/reasoning; feasibility; impact; own and other's assumptions, bias, authority and relevance) is SUPERFICIAL  | Evaluation of resources (history of the issue/problem; logic/reasoning; feasibility; impact; own and other's assumptions, bias, authority and relevance) is ABSENT |  |
| 5. UTILIZE<br>RESOURCES:<br>Utilize resources<br>effectively and<br>creatively to<br>innovate and/or<br>to accomplish a<br>specific task | Presents resources,<br>organizes resources and<br>synthesizes those resources<br>to FULLY ACHIEVE a<br>specific task WITH<br>CLARITY, PRECISION<br>and DEPTH  | Presents resources,<br>organizes resources<br>and synthesizes those<br>resources to<br>ACHIEVE a specific<br>task   | Presents resources and organizes resources but FAILS to synthesize those resources. Consequently, a specific task is MINIMALLY ACHIEVED                                  | Presents resources but resources are FRAGMENTED and/or USED INAPPROPRIATELY. Consequently, a specific task is NOT ACHIEVED   |  |
| 6. ASSESS<br>RESULTS:<br>Assess and<br>evaluate results  | INTENTIONALLY and<br>THOROUGHLY<br>REFLECTS upon the<br>results of the specific task<br>and/or innovation in a<br>LOGICAL manner<br>appropriate to the<br>discipline  | REFLECTS upon the<br>results of the specific<br>task and/or innovation<br>in a LOGICAL<br>manner appropriate to<br>the discipline   | REFLECTS upon the results of the specific task and/or innovation in a SOMEWHAT LOGICAL manner appropriate to the discipline  | REFLECTS upon the results of the specific task and/or innovation WITH VERY LIMITED ATTENTION TO LOGICAL STRUCTURES and APPROPRIATENESS to the discipline           |  |

**Cultural and Global Engagement Scoring Guidelines** 

**DEFINITION:** Cultural and global engagement encompasses the awareness of cultural systems, events, and creations and an ability to apply this cultural and global awareness to human interaction and expression. **Descriptors:** Achievement Level 4 **Achievement Level 3 Achievement Level 2** Achievement Level 1 THOROUGHLY IDENTIFIES one's 1. CULTURAL IDENTIFIES one's **SELDOM** KNOWLEDGE: IDENTIFIES one's own and other cultural own cultural systems, IDENTIFIES one's Identify cultural own and other cultural systems, events, or events, or creations but own cultural systems, events, or systems, events, or creations **SELDOM** systems, events, or IDENTIFIES other creations creations creations and LACKS ABILITY cultures to IDENTIFY other cultures 2. GLOBAL THOROUGHLY IDENTIFIES the **SELDOM** INABILITY TO **INFLUENCES:** IDENTIFIES the global forces that IDENTIFIES the IDENTIFY the global forces that shape one's own and global forces that shape Identify the global global forces that forces that shape shape one's own and other cultures and one's own and other shape one's own culture and subculture other cultures and subcultures and other cultures cultures and subcultures subcultures and subcultures EXTENSIVELY ANALYZES and DEMONSTRATES LACKS ABILITY 3. CULTURAL AND ANALYZES and EXPLAINS the LIMITED ABILITY to to ANALYZE and GLOBAL SELF EXPLAINS the impact EXPLAIN the impact of culture and ANALYZE and **AWARENESS:** experience on one's EXPLAIN the impact Analyze and explain of culture and impact of culture the impact of culture experience on one's worldview and of culture and and experience on and experience on worldview and behavior, including experience on one's one's worldview one's worldview and and behavior. behavior, including assumptions, biases, worldview and prejudices, and behavior, including assumptions, biases, behavior, including including prejudices, and assumptions, biases, stereotypes assumptions, biases, assumptions, prejudices, and stereotypes prejudices, and biases, prejudices, stereotypes stereotypes and stereotypes 4. CULTURAL AND EXTENSIVELY ANALYZES and DEMONSTRATES LACKS ABILITY GLOBAL ANALYZES and EXPLAINS the LIMITED ABILITY to to ANALYZE and **AWARENESS:** EXPLAINS the impact impact of historical ANALYZE and EXPLAIN the Analyze and explain of historical events, events, perspectives, EXPLAIN the impact impact of historical the impact of historical perspectives, or or cultures on world of historical events, events, cultures on world societies, human events, perspectives, or perspectives, or perspectives, or societies, human cultures on world interactions and cultures on world cultures on world societies, human interactions and creativity, and natural societies, human societies, human interaction and creativity, and natural environment interactions and interactions and expression, and the environment creativity, and natural creativity, and natural environment environment natural environment 5. INCLUSIVENESS: **DEMONSTRATES DEMONSTRATES DEMONSTRATES** LACKS **STRONG** WILLINGNESS AND WILLINGNESS Demonstrate a LIMITED willingness and ability WILLINGNESS AND ABILITY to engage WILLINGNESS AND OR ABILITY to to engage with other ABILITY to engage with other cultures ABILITY to engage engage with other cultures and global with other cultures and and global societies with other cultures and cultures and global societies global societies global societies societies GENERATES ideas, 6. CULTURAL **GENERATES GENERATES** LACKS ABILITY **EXPRESSION:** INNOVATIVE ideas, creations, or models LIMITED ideas, to GENERATE Generate ideas, creations, or models that express human creations, or models ideas, creations, or creations, or models that express human condition and one's that express human models that express that express the human condition and one's relationship with the condition and one's human condition condition and our relationship with the relationship with the and one's world relationship with the relationship with world world world around us the world

# Appendix B

# MCC's Annual Assessment Results Summary AY 2015-2016

#### Mesa Community College Annual Assessment Results Summary AY 2015-2016

- 3,061 students were assessed in 88 different courses from 17 departments
- 71 residential and 31 adjunct faculty administered the assessments in 64 different sections
- 748 (duplicated count) students were assessed in Civic Engagement
- 1,163 (duplicated count) students were assessed in Communication
- 1,364 (duplicated count) students were assessed in Critical Thinking
- 596 (duplicated count) students were assessed in Cultural and Global Engagement

| Outcome                           | Results   |
|-----------------------------------|---|
| Civic Engagement                  | <ul> <li>66.44% of Civic Engagement assessments were rated at achievement level 4 or achievement level 3</li> <li>CE5: Engagement in Civic Action and Reflection assessed more students at achievement level 4 (7.46%) than the other descriptors assessing at achievement level 4</li> <li>CE2: Application and Knowledge assessed more students at achievement level 3 (6.84%) than the other descriptors assessing at achievement level 3</li> <li>CE5: Engagement in Civic Action and Reflection assessed more students at achievement level 2 (4.60%) than the other descriptors assessing at achievement level 2</li> <li>CE4: Civic Communication assessed more students at achievement level 1 (2.94%) than the other descriptors assessing at achievement level 1</li> </ul> |
| Communication                     | <ul> <li>48.17% of Communication assessments were rated at achievement level 3</li> <li>CO5: Reception assessed more students at achievement level 4 (6.26%) than the other descriptors assessing at achievement level 4</li> <li>CO4: Execution assessed more students at achievement level 3 (10.71%) than the other descriptors assessing at achievement level 3</li> <li>CO3: Language assessed more students at achievement level 2 (4.75%) than the other descriptors assessing at achievement level 2</li> <li>All descriptors assessing at achievement level 1 were less than 1%</li> </ul>   |
| Critical Thinking                 | <ul> <li>76.41% of Critical Thinking assessments were rated at achievement level 4 or achievement level 3</li> <li>CT3: Gather Resources assessed more students at achievement level 4 (9.04%) than the other descriptors assessing at achievement level 4</li> <li>CT5: Utilize Resources assessed more students at achievement level 3 (5.96%) than the other descriptors assessing at achievement level 3</li> <li>CT4: Evaluate Resources assessed more students at achievement level 2 (3.71%) than the other descriptors assessing at achievement level 2</li> <li>CT4: Evaluate Resources assessed more students at achievement level 1 (1.34%) than the other descriptors assessing at achievement level 1</li> </ul>   |
| Cultural and Global<br>Engagement | <ul> <li>43.04% of Cultural and Global assessments were rated at achievement level 3</li> <li>CG5: Inclusiveness assessed more students at achievement level 4 (6.21%) than the other descriptors assessing at achievement level 4</li> <li>CG1: Cultural Knowledge assessed more students at achievement level 3 (8.08%) than the other descriptors assessing at achievement level 3</li> <li>CG4: Cultural and Global Awareness assessed more students at achievement level 2 (4.39%) than the other descriptors assessing at achievement level 2</li> <li>CG4: Cultural and Global Awareness and CG3: Cultural and Global Self Awareness assessed more students at achievement level 1 (1.65%) than the other descriptors assessing at achievement level 1</li> </ul>              |