



UNIT/PROGRAM NAME: Mathematics
OFFICE OF PRIMARY RESPONSIBILITY: Mathematics and Computing
ASSESSMENT COORDINATOR: André M. Lubecke
SUBMISSION DATE OF THE REPORT: Saturday, September 29, 2018

ACADEMIC YEAR 2017-2018

INSTRUCTIONS:

To comply with institutional effectiveness expectations, units/programs MUST:

- identify expected outcomes,
- assesses the extent to which it achieves these outcomes, and
- provide evidence of improvement based on analysis of the results

Guidance for preparing Unit Goals and Indicators of Success Reports:

- These reports should demonstrate on-going planning and assessment in each area. The results assist in decision making about curricular and programmatic revisions.
- Describe your Unit/Program Goal. Think about adding new goals or modifying previously reported ones.
- Choose a “Pillar for Success” from Lander’s Strategic Plan that your goal best aligns with.
- Timeframe: Each report should use data from the past year. For the Fall 2018 report you should use data from the Academic Year 2017-2018 or Calendar Year 2017. Historical data should be referenced in the Review and Summary of Expected Outcomes section if applicable.
- Use multiple assessments (Indicators of Success) for each Unit Goal if possible. *If this is a new goal, you may not have collected data yet. This is acceptable and should be indicated.
- Assessment Instruments: Develop and/or use methods and instruments that are uniquely suited to the Indicators of Success.
- Review and Summary of Expected Outcomes:
 - If you are using a goal that you have submitted in the past, please provide a narrative that includes an analysis of historical data and current data. It should include evidence of improvement or clarification of why improvement has not been accomplished. It should include a summary of what steps can be taken to accomplish the goal and what resources are needed to meet the goal or sustain the results.
 - If you are using a new goal and you have collected data, please provide a narrative that includes an analysis of your data and a plan for improvement. This plan should include a summary of what steps can be taken to accomplish the goal and what resources are needed to meet the goal or sustain the results. *If you are using a new goal and have not yet collected data, please provide a summary of why the goal has been added, how meeting this goal would improve your program/unit, and any expectations that you have for it.

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1. UNIT/PROGRAM GOAL 1: Students will demonstrate a broad base of mathematical knowledge.

1.1. **STRATEGIC PLANNING FRAMEWORK PILLAR SUPPORTED:** 2. Selective, Competitive Recruitment and Enrollment of Ambitious and Talented Students

1.2. **TIMEFRAME FOR ASSESSMENT OF THIS GOAL AND INDICATORS OF SUCCESS:** [Click here to enter Timeframe \(Fall 2017, Academic Year 2017-2018, etc.\)](#)

1.3. **INDICATORS OF SUCCESS/STUDENT LEARNING OUTCOMES, SUMMARY OF OUTCOME DATA AND EXPECTED OUTCOMES¹**

Indicator of Success / Student Learning Outcome	Summary Data for this Timeframe	Expected Outcome: Met (3)	Expected Outcome: Partially Met (2)	Expected Outcome: Not Met (1)	Score
1.3.1. Percentile rankings of seniors taking MFT	¼ above median; ¼ below Q1	At least 50% of graduating seniors score at or above the national median on the MFT AND no more than 25% of graduating seniors score below the first quartile	Between 30% and 50% of graduating seniors score above the national median	Less than 30% of graduating seniors score above the national median OR more than 50% score below Q1.	1.00
1.3.2. % Pass rate on the Praxis 2 exam	2/2 pass	100% pass rate or all but one student	Above a 90% pass rate or all but one	Less than 90% pass rate or more than one failure	3.00
1.3.3. Knowledge of Calculus: Student performance on MFT Calculus Subscore	Cohort still open, no data available yet	At least 50% of cohorts have scores above the national median	At least 40% of cohorts have scores above the national median	Less than 40% of cohorts have scores above the national median	Outcome 3: Score.
1.3.4. N/A	N/A	N/A	N/A	N/A	Outcome 4: Score.

¹ Expected Outcomes **must** be mutually exclusive for Met, Partially Met and Not Met.

1.3.5. N/A

N/A

N/A

N/A

N/A

Outcome
5: Score.

1.4. AVERAGE SCORE FOR ALL INDICATORS OF SUCCESS: 2

1.5. ASSESSMENT INSTRUMENTS AND FREQUENCY OF ASSESSMENT:

Indicator of Success	Assessment Instruments	Frequency of Assessment
1.5.1.	Major Field Test in Mathematics	Annually to students in MATH 499
1.5.2.	PRAXIS 2	Annually to students in Teacher Certification Program
1.5.3.	MFT Calculus subscore	Annually to students in MATH 499
1.5.4.	N/A	N/A
1.5.5.	N/A	N/A

1.6. REVIEW AND SUMMARY OF EXPECTED OUTCOMES – Date Reviewed: [Click here to enter a review date.](#)

(THE FOCUS OF NARRATIVE SHOULD BE ON PROVIDING EVIDENCE OF IMPROVEMENT, BASED ON THE ANALYSIS OF THE ASSESSMENT RESULTS, AND NOT A PLAN FOR IMPROVEMENT):

1.6.1. OUTCOME 1 COMMENTS: Mathematics Program assessment is in need of serious reconsideration. Data collected has not been used effectively to inform decisions concerning courses and the program. Discussions will begin during the 2018-2019 academic year.

1.6.1.1. ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 1: [Click here to enter dollar amount/other resources required.](#)

- 1.6.1.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.
- 1.6.2. **OUTCOME 2 COMMENTS:** Students continue to be successful on the Praxis exam. No program changes necessary.
- 1.6.2.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 2:** Click here to enter dollar amount/other resources required.
- 1.6.2.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.
- 1.6.3. **OUTCOME 3 COMMENTS:** Data on subscores needs to be accumulated in at least 2-year cycles in order to have a sufficiently large cohort size. How to use this subscore for program improvement will be part of the Assessment plan discussion.
- 1.6.3.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 3:** Click here to enter dollar amount/other resources required.
- 1.6.3.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.
- 1.6.4. **OUTCOME 4 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.
- 1.6.4.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 4:** Click here to enter dollar amount/other resources required.
- 1.6.4.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.
- 1.6.5. **OUTCOME 5 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

1.6.5.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 5:** Click here to enter dollar amount/other resources required.

1.6.5.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

1.7. SUMMARY COMMENTS FOR OUTCOMES 1-5:

Click here to enter a discussion of the assessment results of all Expected Outcomes combined.

1.8. CHANGES MADE/PROPOSED TO PROGRAM AS A RESULT OF OUTCOMES 1-5: Click here to list the changes made/proposed to the program as a result of an analysis of the assessment results. Please be concise yet thorough.

2. UNIT/PROGRAM GOAL 2: Students in the Mathematics Secondary Certification program will demonstrate their preparation to teach secondary school level mathematics.

2.1. STRATEGIC PLANNING FRAMEWORK PILLAR SUPPORTED: Choose a Pillar

2.2. TIMEFRAME FOR ASSESSMENT OF THIS GOAL AND INDICATORS OF SUCCESS: Click here to enter Timeframe (Fall 2017, Academic Year 2017-2018, etc.)

2.3. INDICATORS OF SUCCESS/STUDENT LEARNING OUTCOMES, SUMMARY OF OUTCOME DATA AND EXPECTED OUTCOMES²

Indicator of Success / Student Learning Outcome	Summary Data for this Timeframe	Expected Outcome: Met (3)	Expected Outcome: Partially Met (2)	Expected Outcome: Not Met (1)	Score
2.3.1 PRAXIS 2: Students demonstrate knowledge of mathematical pedagogy in written work and in practice	½ passed on first attempt	100% pass rate on first attempt	At least 90% pass on first attempt, or all but one	Less than 90% pass on first attempt, or more than one failure	2.00
2.3.2 Teacher Work Sample pass rate	Data not yet available.	100% attain an overall portfolio rating of at least 3.0 on 4.0 scale	90% attain at least a 3.0	Less than 90% attain a 3.0	Outcome 2: Score.
2.3.3 N/A	N/A	N/A	N/A	N/A	Outcome 3: Score.
2.3.4 N/A	N/A	N/A	N/A	N/A	Outcome 4: Score.

² Expected Outcomes **must** be mutually exclusive for Met, Partially Met and Not Met.

2.3.5. N/A

N/A

N/A

N/A

N/A

Outcome
5: Score.

2.4. **AVERAGE SCORE FOR ALL INDICATORS OF SUCCESS:** Click here to add an average score (i.e.: Outcome 1 Score = 3 + Outcome Score 2 = 1 + Outcome 3 Score = 1 + Outcome 4 Score = 2 + Outcome 5 Score = 3. Total of Outcome Scores 1 – 5 = 10 ÷ 5 Total Outcomes = 2.00.)

2.5. **ASSESSMENT INSTRUMENTS AND FREQUENCY OF ASSESSMENT:**

Indicator of Success	Assessment Instruments	Frequency of Assessment
2.5.1.	PRAXIS 2	Annually to students in Teacher Certificaiton program
2.5.2.	Teacher Work Sample	Annually to students in EDUC 460
2.5.3.	N/A Outcome 4: click here to enter Indicator of Success/Student Learning Outcome 4.	N/A
2.5.4.	N/A	N/A
2.5.5.	N/A	NA

2.6. **REVIEW AND SUMMARY OF EXPECTED OUTCOMES – Date Reviewed:** Click here to enter a review date.

(THE FOCUS OF NARRATIVE SHOULD BE ON PROVIDING EVIDENCE OF IMPROVEMENT, BASED ON THE ANALYSIS OF THE ASSESSMENT RESULTS, AND NOT A PLAN FOR IMPROVEMENT):

2.6.1. **OUTCOME 1 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

- 2.6.1.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 1:** Click here to enter dollar amount/other resources required.
- 2.6.1.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.
- 2.6.2. **OUTCOME 2 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.
 - 2.6.2.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 2:** Click here to enter dollar amount/other resources required.
 - 2.6.2.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.
- 2.6.3. **OUTCOME 3 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.
 - 2.6.3.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 3:** Click here to enter dollar amount/other resources required.
 - 2.6.3.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.
- 2.6.4. **OUTCOME 4 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.
 - 2.6.4.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 4:** Click here to enter dollar amount/other resources required.
 - 2.6.4.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

2.6.5. **OUTCOME 5 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

2.6.5.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 5:** Click here to enter dollar amount/other resources required.

2.6.5.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

2.7. SUMMARY COMMENTS FOR OUTCOMES 1-5:

Click here to enter a discussion of the assessment results of all Expected Outcomes combined.

2.8. CHANGES MADE/PROPOSED TO PROGRAM AS A RESULT OF OUTCOMES 1-5: Click here to list the changes made/proposed to the program as a result of an analysis of the assessment results. Please be concise yet thorough.

3. UNIT/PROGRAM GOAL 3: Students will communication mathematical ideas effectively.

3.1. **STRATEGIC PLANNING FRAMEWORK PILLAR SUPPORTED:** 3. Robust Student Experience

3.2. **TIMEFRAME FOR ASSESSMENT OF THIS GOAL AND INDICATORS OF SUCCESS:** [Click here to enter Timeframe \(Fall 2017, Academic Year 2017-2018, etc.\)](#)

3.3. INDICATORS OF SUCCESS/STUDENT LEARNING OUTCOMES, SUMMARY OF OUTCOME DATA AND EXPECTED OUTCOMES³

Indicator of Success / Student Learning Outcome	Summary Data for this Timeframe	Expected Outcome: Met (3)	Expected Outcome: Partially Met (2)	Expected Outcome: Not Met (1)	Score
3.3.1. Students display an understanding of a mathematical topic in their capstone project	All students scored at least a 3.25	All students score an average of at least a 3.0 on the item “Extends presenters mathematical knowledge” on the presentation scoring rubric	At least half the students score an average of at least a 3.0 on the item “Extends presenters mathematical knowledge” on the presentation scoring rubric	Fewer than half the students score an average of at least a 3.0 on the item “Extends presenters mathematical knowledge” on the presentation scoring rubric	3.00
3.3.2. Students create a professional presentation for their capstone project	All students scored at least a 3.25	All the students score an average of at least a 3.0 on the item “Interest and Appeal of presentation” on the presentation scoring rubric	At least half the students score an average of at least a 3.0 on the item “Interest and Appeal of presentation” on the presentation scoring rubric	Fewer than half the students score an average of at least a 3.0 on the item “Interest and Appeal of presentation” on the presentation scoring rubric	3.00
3.3.3. Students display good oral communication skills in their capstone project presentation.	All students scored at least a 3.25	All students score an average of at least a 3.0 on the item “Organization and clarity of presentation” on the presentation scoring rubric	At least half the students score an average of at least a 3.0 on the item “Interest and Appeal of presentation” on the presentation scoring rubric	Fewer than half the students score an average of at least a 3.0 on the item “Interest and Appeal of presentation” on the presentation scoring rubric	3.00

³ Expected Outcomes **must** be mutually exclusive for Met, Partially Met and Not Met.

3.3.4. N/A	N/A	N/A	N/A	N/A	Outcome 4: Score.
3.3.5. N/A	N/A	N/A	N/A	N/A	Outcome 5: Score.

3.4. AVERAGE SCORE FOR ALL INDICATORS OF SUCCESS: 3

3.5. ASSESSMENT INSTRUMENTS AND FREQUENCY OF ASSESSMENT:

Indicator of Success	Assessment Instruments	Frequency of Assessment
3.5.1.	Capstone Presentation Project rubric	At least 75% receive an average score of 2.0 or more on a 3.-point scale in the “Understanding of Mathematics” portion of the Presentation rubric
3.5.2.	Capstone Presentation Project rubric	Outcome 2: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 2.
3.5.3.	Capstone Presentation Project rubric	Outcome 3: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 3.
3.5.4.	Outcome 4: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 4.	Outcome 4: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 4.
3.5.5.	Outcome 5: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 5.	Outcome 5: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 5.

3.6. REVIEW AND SUMMARY OF EXPECTED OUTCOMES – Date Reviewed: [Click here to enter a review date.](#)

(THE FOCUS OF NARRATIVE SHOULD BE ON PROVIDING EVIDENCE OF IMPROVEMENT, BASED ON THE ANALYSIS OF THE ASSESSMENT RESULTS, AND NOT A PLAN FOR IMPROVEMENT):

3.6.1. OUTCOME 1 COMMENTS: Instructor in MATH 499 in Spring 2018 did not consider the current assessment plan rubrics and so the data provided is not equivalent to that collected in past years. This will be addressed in conversations about program assessment.

3.6.1.1. ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 1: [Click here to enter dollar amount/other resources required.](#)

3.6.1.2. EXPLANATION OF HOW RESOURCES WILL BE USED: [Click here to enter explanation of how the resources will be used to achieve or sustain results.](#)

3.6.2. OUTCOME 2 COMMENTS: Instructor in MATH 499 in Spring 2018 did not consider the current assessment plan rubrics and so the data provided is not equivalent to that collected in past years. This will be addressed in conversations about program assessment.

3.6.2.1. ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 2: [Click here to enter dollar amount/other resources required.](#)

3.6.2.2. EXPLANATION OF HOW RESOURCES WILL BE USED: [Click here to enter explanation of how the resources will be used to achieve or sustain results.](#)

3.6.3. OUTCOME 3 COMMENTS: Instructor in MATH 499 in Spring 2018 did not consider the current assessment plan rubrics and so the data provided is not equivalent to that collected in past years. This will be addressed in conversations about program assessment.

3.6.3.1. ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 3: [Click here to enter dollar amount/other resources required.](#)

3.6.3.2. EXPLANATION OF HOW RESOURCES WILL BE USED: [Click here to enter explanation of how the resources will be used to achieve or sustain results.](#)

3.6.4. OUTCOME 4 COMMENTS: [Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.](#)

3.6.4.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 4:** Click here to enter dollar amount/other resources required.

3.6.4.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

3.6.5. **OUTCOME 5 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

3.6.5.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 5:** Click here to enter dollar amount/other resources required.

3.6.5.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

3.7. SUMMARY COMMENTS FOR OUTCOMES 1-5:

Click here to enter a discussion of the assessment results of all Expected Outcomes combined.

3.8. CHANGES MADE/PROPOSED TO PROGRAM AS A RESULT OF OUTCOMES 1-5: Click here to list the changes made/proposed to the program as a result of an analysis of the assessment results. Please be concise yet thorough.

4. UNIT/PROGRAM GOAL 4: Students demonstrate success in employment and/or graduate-level education, as applicable.

4.1. **STRATEGIC PLANNING FRAMEWORK PILLAR SUPPORTED:** 4. Graduates Who Are Gainfully Employed or Admitted to Graduate School

4.2. **TIMEFRAME FOR ASSESSMENT OF THIS GOAL AND INDICATORS OF SUCCESS:** Click here to enter Timeframe (Fall 2017, Academic Year 2017-2018, etc.)

4.3. **INDICATORS OF SUCCESS/STUDENT LEARNING OUTCOMES, SUMMARY OF OUTCOME DATA AND EXPECTED OUTCOMES⁴**

Indicator of Success / Student Learning Outcome	Summary Data for this Timeframe	Expected Outcome: Met (3)	Expected Outcome: Partially Met (2)	Expected Outcome: Not Met (1)	Score
4.3.1 Students self-report attainment of positions in employment or acceptance to graduate schools.	3 students reported secured employment, one student considering graduate work.	Outcome 1: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 1 (i.e.: a score, a range of scores) describing a level of attainment which "Meets" the expectations of the unit/program.	Outcome 1: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 1 (i.e.: a score, a range of scores) describing a level of attainment which "Partially Meets" the expectations of the unit/program.	Outcome 1: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 1 (i.e.: a score, a range of scores) describing a level of attainment which "Does Not Meet" the expectations of the unit/program.	Outcome 1: Score.
4.3.2 Students self-report significant progress in graduate level studies	N/A Alumni Survey not administered as expected in Fall 2017	N/A	N/A	N/A	Outcome 2: Score.
4.3.3 N/A	N/A	N/A	N/A	N/A	Outcome 3: Score.

⁴ Expected Outcomes **must** be mutually exclusive for Met, Partially Met and Not Met.

4.3.4	N/A	N/A	N/A	N/A	N/A	Outcome 4: Score.
4.3.5	N/A	N/A	N/A	N/A	N/A	Outcome 5: Score.

4.4. AVERAGE SCORE FOR ALL INDICATORS OF SUCCESS: Click here to add an average score (i.e.: Outcome 1 Score = 3 + Outcome Score 2 = 1 + Outcome 3 Score = 1 + Outcome 4 Score = 2 + Outcome 5 Score = 3. Total of Outcome Scores 1 – 5 = 10 ÷ 5 Total Outcomes = 2.00.)

4.5. ASSESSMENT INSTRUMENTS AND FREQUENCY OF ASSESSMENT:

Indicator of Success	Assessment Instruments	Frequency of Assessment
4.5.1.	Senior Exit interview	Annually to students in MATH 499
4.5.2.	Alumni Survey	Not administered in 2017 as anticipated
4.5.3.	Outcome 3: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 3.	Outcome 3: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 3.
4.5.4.	Outcome 4: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 4.	Outcome 4: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 4.
4.5.5.	Outcome 5: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 5.	Outcome 5: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 5.

4.6. REVIEW AND SUMMARY OF EXPECTED OUTCOMES – Date Reviewed: Click here to enter a review date.

(THE FOCUS OF NARRATIVE SHOULD BE ON PROVIDING EVIDENCE OF IMPROVEMENT, BASED ON THE ANALYSIS OF THE ASSESSMENT RESULTS, AND NOT A PLAN FOR IMPROVEMENT):

4.6.1. **OUTCOME 1 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

4.6.1.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 1:** Click here to enter dollar amount/other resources required.

4.6.1.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

4.6.2. **OUTCOME 2 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

4.6.2.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 2:** Click here to enter dollar amount/other resources required.

4.6.2.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

4.6.3. **OUTCOME 3 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

4.6.3.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 3:** Click here to enter dollar amount/other resources required.

4.6.3.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

4.6.4. **OUTCOME 4 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

4.6.4.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 4:** Click here to enter dollar amount/other resources required.

4.6.4.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

4.6.5. **OUTCOME 5 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

4.6.5.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 5:** Click here to enter dollar amount/other resources required.

4.6.5.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

4.7. SUMMARY COMMENTS FOR OUTCOMES 1-5:

Click here to enter a discussion of the assessment results of all Expected Outcomes combined.

4.8. CHANGES MADE/PROPOSED TO PROGRAM AS A RESULT OF OUTCOMES 1-5: Click here to list the changes made/proposed to the program as a result of an analysis of the assessment results. Please be concise yet thorough.

5. UNIT/PROGRAM GOAL 5: Compliance with Program Productivity Standards as defined by the SC Commission on Higher Education

5.1.STRATEGIC PLANNING FRAMEWORK PILLAR SUPPORTED: 7. Financially Stable and Operationally Efficient

5.2. TIMEFRAME FOR ASSESSMENT OF THIS GOAL AND INDICATORS OF SUCCESS: Click here to enter Timeframe (Fall 2017, Academic Year 2017-2018, etc.)

5.3. INDICATORS OF SUCCESS/STUDENT LEARNING OUTCOMES, SUMMARY OF OUTCOME DATA AND EXPECTED OUTCOMES⁵

Indicator of Success / Student Learning Outcome	Summary Data for this Timeframe	Expected Outcome: Met (3)	Expected Outcome: Partially Met (2)	Expected Outcome: Not Met (1)	Score
5.3.1. Mathematics Degrees conferred	Current average is 4.8	Outcome 1: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 1 (i.e.: a score, a range of scores) describing a level of attainment which “Meets” the expectations of the unit/program.	Outcome 1: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 1 (i.e.: a score, a range of scores) describing a level of attainment which “Partially Meets” the expectations of the unit/program.	Outcome 1: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 1 (i.e.: a score, a range of scores) describing a level of attainment which “Does Not Meet” the expectations of the unit/program.	Outcome 1: Score.
5.3.2 Mathematics major headcount	Current average is 61.8	Outcome 2: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 2 (i.e.: a score, a range of scores) describing a level of attainment which “Partially Meets” the expectations of the	Outcome 2: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 2 (i.e.: a score, a range of scores) describing a level of attainment which “Partially Meets” the expectations of the	Outcome 2: click here to enter a specific and measurable outcome for Indicator of Success/Student Learning Outcome 2 (i.e.: a score, a range of scores) describing a level of attainment which “Does Not Meet” the expectations of the unit/program.	Outcome 2: Score.

⁵ Expected Outcomes **must** be mutually exclusive for Met, Partially Met and Not Met.

	unit/program.		unit/program.		
5.3.3 N/A	N/A	N/A	N/A	N/A	Outcome 3: Score.
5.3.4. N/A	N/A	N/A	N/A	N/A	Outcome 4: Score.
5.3.5. N/A	N/A	N/A	N/A	N/A	Outcome 5: Score.

5.4. **AVERAGE SCORE FOR ALL INDICATORS OF SUCCESS:** Click here to add an average score (i.e.: Outcome 1 Score = 3 + Outcome Score 2 = 1 + Outcome 3 Score = 1 + Outcome 4 Score = 2 + Outcome 5 Score = 3. Total of Outcome Scores 1 – 5 = 10 ÷ 5 Total Outcomes = 2.00.)

5.5. **ASSESSMENT INSTRUMENTS AND FREQUENCY OF ASSESSMENT:**

Indicator of Success	Assessment Instruments	Frequency of Assessment
5.5.1.	Information provided by Lander University IA office	Outcome 1: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 1.
5.5.2.	Outcome 2: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 2.	Outcome 2: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 2.
5.5.3.	Outcome 3: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 3.	Outcome 3: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 3.

5.5.4. Outcome 4: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 4.

Outcome 4: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 4.

5.5.5. Outcome 5: click here to enter the assessment instrument used for Indicator of Success/Student Learning Outcome 5.

Outcome 5: click here to enter the frequency of assessment for Indicator of Success/Student Learning Outcome 5.

5.6. REVIEW AND SUMMARY OF EXPECTED OUTCOMES – Date Reviewed: Click here to enter a review date.

(THE FOCUS OF NARRATIVE SHOULD BE ON PROVIDING EVIDENCE OF IMPROVEMENT, BASED ON THE ANALYSIS OF THE ASSESSMENT RESULTS, AND NOT A PLAN FOR IMPROVEMENT):

5.6.1. **OUTCOME 1 COMMENTS:** Because of the size of Lander University, it is not reasonable to expect the mathematics program to meet CHE program requirements that are designed for institutions more than triple the size of Lander.

5.6.1.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 1:** Click here to enter dollar amount/other resources required.

5.6.1.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

5.6.2. **OUTCOME 2 COMMENTS:** Student Headcount can often be met as students enter as freshman planning to pursue the dual-degree engineering program with Clemson University, but then many cannot successfully complete the calculus sequence and change their major.

5.6.2.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 2:** Click here to enter dollar amount/other resources required.

5.6.2.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

5.6.3. **OUTCOME 3 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

5.6.3.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 3:** Click here to enter dollar amount/other resources required.

5.6.3.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

5.6.4. **OUTCOME 4 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

5.6.4.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 4:** Click here to enter dollar amount/other resources required.

5.6.4.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

5.6.5. **OUTCOME 5 COMMENTS:** Click here to enter a discussion of the assessment results and actions taken to improve the unit/program based on an analysis of assessment data.

5.6.5.1. **ADDITIONAL RESOURCES REQUIRED TO ACHIEVE OR SUSTAIN RESULTS FOR INDICATOR OF SUCCESS 5:** Click here to enter dollar amount/other resources required.

5.6.5.2. **EXPLANATION OF HOW RESOURCES WILL BE USED:** Click here to enter explanation of how the resources will be used to achieve or sustain results.

5.7. **SUMMARY COMMENTS FOR OUTCOMES 1-5:**

Click here to enter a discussion of the assessment results of all Expected Outcomes combined.

5.8. **CHANGES MADE/PROPOSED TO PROGRAM AS A RESULT OF OUTCOMES 1-5:** Click here to list the changes made/proposed to the program as a result of an analysis of the assessment results. Please be concise yet thorough.