

# Mathematics and Statistics

## Academic Affairs

### Administrative Unit Assessment

FY 19 (July 2018-July 2019)

#### Department and Assessment Report Information

Prepared on:9/15/2019 11:48:49 AM	By:Matthew.Houston@mga.edu
For which department or area are you reporting?	Mathematics and Statistics
What is the name and MGA email address of the person responsible for this report?	Matthew T. Houston Matthew.Houston@mga.edu

#### Departmental Mission and Goals

The mission and goals of the department should be consistent over a 5 year period, although some institutional changes may necessitate and prompt a change in mission or goals for specific departments. In this section, you will report the mission statement for your department as well as the long term goals (5 year range) for the department.

<b>What is the mission statement for this department/area? Your mission should explain why the department/area exists and who it serves.</b>	The mission of the Department of Mathematics is to provide excellent instruction in mathematics where students gain knowledge of mathematics and mathematical thought processes, using their knowledge to produce and communicate mathematics. The department seeks to improve the critical thinking skills, mathematical aptitude, and mathematical appreciation of students at Middle Georgia State University through the offering of classes in mathematics as part of the Core Curriculum and other programs of the College. The department also offers a Bachelor of Science degree in Mathematics that focuses on the beauty and applicability of mathematics and instructs students in the rigor and precision that is characteristic of the subject. The Bachelor of Science degree in Mathematics is designed for students who plan to attend professional and graduate school in mathematics or who seek employment in mathematical related fields in the public and private sectors. The department is committed to serving the academic community and the general public by fostering an understanding of the power of mathematics and its role as an elemental mode of human reasoning.
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**What are the goals for this department?  
These should be the "big things" the  
department/area intends to accomplish  
within 5 years.**

1. Increase the number of math majors by 25%.
2. Double the number of tutors in the Mathematics Academic Resource Center (MARC).
3. Increase the retention/completion rate of Learning Support students by 20 percentage points.
4. Introduce fully online Bachelors of Science Degree in Mathematics.

## Objectives

Each year, every department should identify objectives the department hopes to accomplish in the next year. These should align with departmental goals and the MGA strategic plan. In the next section you will be reporting on the objectives you set and whether or not you achieved them in FY19. Later in the document you will report on objectives you hope to accomplish in the coming fiscal year, FY20.

### Objective 1

<b>Objective 1: What was this department's first objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.</b>	To formally keep track of our alumni so that we can use them as success stories for potential new students.
<b>Objective 1: How did your department measure this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)</b>	Get new phone numbers and email addresses of all of our graduates from the past ten years.
<b>Objective 1: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)</b>	70% success rate
<b>Objective 1: At what level did the department/area achieve on this objective? (This should be a number, i.e. 82%, 6%, 345 attendees, 75% engagement)</b>	Unknown
<b>Objective 1: Did your department meet this objective?</b>	The department met this objective.
<b>Objective 1: What did your department learn from working toward this objective? What changes will you make based on this effort next year?</b>	This process will be continued under a new chair.

## Objective 2

<b>Objective 2: What was this department's second objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.</b>	Administer an exit questionnaire to our graduates, so we can identify "things" that we are doing well and areas that we can improve upon.
<b>Objective 2: How did your department measure this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)</b>	Survey our graduates immediately after graduation.
<b>Objective 2: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)</b>	100% participation
<b>Objective 2: At what level did the department/area achieve on this objective? (This should be a number, i.e. 82%, 6%, 345 attendees, 75% engagement)</b>	Unknown
<b>Objective 2: Did your department meet this objective?</b>	The department met this objective.
<b>Objective 2: What did your department learn from working toward this objective? What changes will you make based on this effort next year?</b>	This process will be continued under a new chair.

### Objective 3

<b>Objective 3: What was this department's third objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.</b>	Develop a protocol for measuring Learning Support students' success in their corresponding gateway math course. Calculate MATH 1101 success rates for students enrolled in MATH 0998 co-requisite courses, and calculate MATH 111 success rates for students enrolled in MATH 0999 courses.
<b>Objective 3: How did your department measure this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)</b>	Used Blackboard Analytics
<b>Objective 3: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)</b>	70% success rates
<b>Objective 3: At what level did the department/area achieve on this objective? (This should be a number, i.e. 82%, 6%, 345 attendees, 75% engagement)</b>	45%.
<b>Objective 3: Did your department meet this objective?</b>	The department did not meet this objective.
<b>Objective 3: What did your department learn from working toward this objective? What changes will you make based on this effort next year?</b>	The department learned to set more manageable goals. Although we did not meet this objective, the success rate of LS students was double the previous year's value. Thus, the intention of the objective was realized.

**Objective 4**

<b>Objective 4: What was this department's fourth objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.</b>	NA
<b>Objective 4: How did your department measure this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)</b>	NA
<b>Objective 4: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)</b>	NA
<b>Objective 4: At what level did the department/area achieve on this objective? (This should be a number, i.e. 82%, 6%, 345 attendees, 75% engagement)</b>	NA
<b>Objective 4: Did your department meet this objective?</b>	The department met this objective.
<b>Objective 4: What did your department learn from working toward this objective? What changes will you make based on this effort next year?</b>	NA

## Future Plans

<p><b>Please identify at least four measurable objectives for the next fiscal year. In listing the objectives, please use the format shown in these examples.1) The Department of X will improve services levels by 5% as measured by our satisfaction survey. 2) The department to X will provide training in ABC for at least 73 MGA faculty and staff.</b></p>	<ol style="list-style-type: none"><li>1. The Department of Mathematics and Statistics will introduce a Minor in Applied Statistics which will be offered fully online.</li><li>2. The Department of Mathematics and Statistics will introduce three new concentrations to the BS degree.</li><li>3. The Department of Mathematics and Statistics will leverage the already available internship elective to increase the number of tutors in the MARC by 6 tutors.</li><li>4. The Department of Mathematics and Statistics will increase retention/completion rate of LS students by 5 percentage points (from 45% to 50% retention/completion).</li></ol>
<p><b>Based on this assessment, please share your thoughts on the current status and future direction of this department or area.</b></p>	<p>The department has a bright future ahead.</p>
<p><b>Open Text Box For Assessment Comments:</b></p>	<p>As the new chair of the Department of Mathematics and Statistics, the goals and directions of the department have changed from last year.</p>

Form run:

Tuesday, January 14, 2020