

Department of Mathematics and Statistics

Division of the University: Academic Affairs

Administrative Unit Assessment Year Reporting: FY22 (July 2021 – June 2022)

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Department 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.

<p>6. What is the mission statement for this department/area? Your mission should explain why the department/area exists and who it serves.</p>	<p>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.</p>
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<p>7. What are the goals for this department? These should be the "big things" the department/area intends to accomplish within 5 years.</p>	<ul style="list-style-type: none">*Continue to offer service and support courses that support the general mathematical knowledge of the university student community.*Expand the B.S. Mathematics program to include multiple concentrations.*Increase the reach of the department's programs through technology and innovative teaching methodologies.
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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 FY22. Later in the document you will report on objectives you hope to accomplish in the coming fiscal year, FY23.

Objective 1

8. Objective 1: What was this department's first objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.	Have at least 75 students enrolled in all programs offered by the Department of Mathematics and Statistics.
9. Objective 1: Detail specifically how your department measured this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)	Banner Enrollment Reports
10. Objective 1: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)	75%
11. Objective 1: Provide details for your target performance level established (i.e., accreditation requirement, past performance data, peer program review, etc.)	Based on similar programs at peer institutions, a target performance of 75 was deemed suitable for a sustainable program at the Bachelor's Degree level.
12. 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)	100% - Enrollment in the B.S. Mathematics Program is currently at 94.
13. Objective 1: Did your department meet this objective?	The department exceeded this objective.
14. Objective 1: Improvement Plans and Evidence of changes based on an analysis of the results: What did your department learn from working toward this objective? What changes will you make based on this effort next year?	The department will continue to utilize various strategies to grow program enrollment, with the hopes of hiring new faculty to support its growth.

Objective 2

<p>15. Objective 2: What was this department's second objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.</p>	<p>Increase enrollment in the Applied Statistics Concentration</p>
<p>16. Objective 2: Detail specifically how your department measured this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)</p>	<p>Banner Enrollment Reports</p>
<p>17. Objective 2: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)</p>	<p>Enrollment of at least 10 in Applied Statistics Concentration</p>
<p>18. Objective 2: Provide details for your target performance level established (i.e., accreditation requirement, past performance data, peer program review, etc.)</p>	<p>The Applied Statistics Concentration first appeared in the 2020-2021 Academic Catalog. Enrollment efforts began in fall 2020 with the hopes of recruiting a reasonable number of students in the new program. The target of 10 students was settled upon as a first goal with the intent of adjusting the goal in future years once past data patterns were established.</p>
<p>19. 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)</p>	<p>100% - Enrollment in the Applied Statistics Concentration is currently at 15.</p>
<p>20. Objective 2: Did your department meet this objective?</p>	<p>The department exceeded this objective.</p>
<p>21. Objective 2: Improvement Plans and Evidence of changes based on an analysis of the results: What did your department learn from working toward this objective? What changes will you make based on this effort next year?</p>	<p>In the first year of offering the Applied Statistics Concentration, the department has learned that it is a good alternative for students who are not prepared for the rigor involved in other concentrations of the B.S. Mathematics program. The department will continue to advertise the program and remain involved in other recruitment efforts.</p>

Objective 3

<p>22. Objective 3: What was this department's third objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.</p>	<p>Faculty will engage in scholarship that supports the mission of the department.</p>
<p>23. Objective 3: Detail how your department measured this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)</p>	<p>The department measured this objective by determining the percentage of full-time faculty with scholarship expectations who have engaged in significant scholarly activity as determined by departmental standards over the past year. Examples of activities include publishing in a journal, proceeding, or other peer-reviewed setting. Other activities include curriculum design, undergraduate research, or the creation of original material for regional mathematics competitions.</p>
<p>24. Objective 3: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)</p>	<p>At least 80% of faculty with scholarship expectations will engage in scholarship.</p>
<p>25. Objective 4: Provide details for your target performance level established (i.e., accreditation requirement, past performance data, peer program review, etc.)</p>	<p>Scholarship plays an important role in the Department of Mathematics & Statistics. At the same time, there are occasions on which faculty are asked to teach additional sections in lieu of scholarship or service commitments as part of their workload. In addition, scholarship in Mathematics can often be an activity that takes years before publishable results are achieved. To account for these factors, a target of 80% was established to provide a baseline for the percentage of faculty who are expected to show reasonable scholarly results.</p>
<p>26. 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)</p>	<p>82.30%</p>
<p>27. Objective 2: Did your department meet this objective?</p>	<p>The department met this objective.</p>
<p>28. Objective 2: Improvement Plans and Evidence of changes based on an analysis of the results: What did your department learn from working toward this objective? What changes will you make based on this effort next year?</p>	<p>The department will continue to support faculty engaged in scholarship in robust and varied ways.</p>

Objective 4

<p>29. Objective 4: What was this department's fourth objective for this fiscal year? Objectives should be specific, measurable, and achievable within one year.</p>	<p>Faculty will engage in significant service activities that supports the mission of the department.</p>
<p>30. Objective 4: Detail how your department measured this objective? (Survey, budget number, number of participants, jobs completed, measurable time and/or effort)</p>	<p>The department measured this objective by determining the percentage of full-time faculty who have engaged in significant service activity as determined by departmental standards over the past year. Examples include active participation on institution, school, or departmental committees. Other activities include involvement in community work that uses professional expertise, or other efforts that align with the mission of the department.</p>
<p>31. Objective 4: What was your target outcome for this objective? (i.e. 80% participation, 5% enrollment growth, 7% change in engagement)</p>	<p>At least 90% of departmental faculty will engage in significant service activities.</p>
<p>32. Objective 4: Provide details for your target performance level established (i.e., accreditation requirement, past performance data, peer program review, etc.)</p>	<p>Target performance was established after discussing service expectations with other department chairs.</p>
<p>33. 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)</p>	<p>92.90%</p>
<p>34. Objective 4: Did your department meet this objective?</p>	<p>The department met this objective.</p>
<p>35. Objective 4: Improvement Plans and Evidence of changes based on an analysis of the results: What did your department learn from working toward this objective? What changes will you make based on this effort next year?</p>	<p>The department learned that we do well in the area of service both to the institution and the community at large.</p>

Future Plans

<p>36. Please identify and detail three to 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 of X will provide training in ABC for at least 73 MGA faculty and staff.</p>	<p>The Department of Mathematics & Statistics will engage in at least 5 high quality scholarly activities in the next year. The Department of Mathematics & Statistics will revise curriculum to ensure efficiency and demand are being met. The Department of Mathematics & Statistics will strive to increase enrollment in its programs</p>
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Open Box for Assessment Comments

<p>37. In this field, please document the overall use of assessment results for continuous improvement of this department area (consider the past, present, and future and specifically address these in your narrative).</p>	<p>The department is poised for success. Based on our enrollment objectives, our programs are growing. We will continue to utilize the strategies that we've been using to increase enrollment, and seek new ones. We will continue to support faculty in their scholarship and service efforts to forward the mission of the department. Our dual mission of educating all students of the university in basic level mathematics as well as those in the department's programs, is challenging. However, it is a mission that the faculty take seriously and do their best to fulfill.</p>
<p>38. Optional Open Text Box for Assessment Comments:</p>	
<p>42. If the COVID-19 pandemic impacted this assessment cycle, please provide specific details below.</p>	<p>Regarding Objective 4, service activities specific to the community were somewhat hindered by the pandemic. These opportunities appear to be opening back up in the current year and will hopefully be less inhibited in the future.</p>

MGA's Strategic Plan

<p>39. Based on your goals and objectives listed above please indicate their connection with MGA's Strategic Plan (https://www.mga.edu/about/docs/Strategic_Plan_Overall_DB.pdf) by checking all associated and relevant Imperatives / Strategies from the list below. (Check all the apply)</p>	<p>Grow Enrollment with Purpose 1. Expand and enrich the face to face student experience, Grow Enrollment with Purpose 2. Expand and enrich online instruction into new markets, Own Student Success 3.</p>
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	Develop academic pipelines and expand degrees
40. Please indicate which of the following actions you have taken because of the 2021/2022 Assessment Cycle (Note: These actions are documented in reports, memos, emails, meeting minutes, or other directives within the reporting area) (Check all the apply)	Disseminating/Discussing Assessment Results/Feedback to Appropriate Members of the Campus Community, Process Changes: Improve, Expand, Refine, Enhance, Discontinue, etc. Operational Processes, Request for Additional Financial or Human Resources, Making Improvements to Teaching Approach, Course Design, Curriculum, Scheduling, other

Other

41. Please indicate (if appropriate) any local, state, or national initiatives (academic or otherwise) that are influential in the operations, or goals, and objectives of your unit. (Complete College Georgia, USG High Impact Practice Initiative, LEAP, USG Momentum Year, Low-Cost No-Cost Books, etc.)	
43. Mindset Update (Academic Deans ONLY)	

