Report:	Assessment Plan Details for: Department of Mathematics & Computer Science
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Workspace:	Operational Plan & Assessment Report - OPAR
Assessment Plan:	2010-11Cycle: Assessment Plan and Assessment Findings
Assessment Plan Template:	OPAR Assessment Plan
Report Generated:	Thursday, February 10, 2011

Measures and Findings

Department of Mathematics & Computer Science Unit Goals

1. Increase enrollment and graduation rates

Increase retention and graduation rate in all degree programs

3 80% Retention

At least 80% of undergraduate and graduate students enrolled in fall 2009 that are not graduated during the year will re-enroll in fall 2010.

Mapped to:

- FSU Strategic Priorities, Initiatives, and Indicators: 1.1.5.,
- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.1

Measures & Findings

2. Success rate in University College courses
Direct - Other

Details/Description: The Department will monitor the success rate in University College courses Math121 and Math123. This is imortant since these courses are required of almost all students.

Acceptable Target: Criteria for success will be academic year average success (grade of A, B or C) rate of 67% for Math121 and 68% for Math 123.

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each semester.

Key/Responsible Personnel: Course coordinators Dr. Kodipili (MATH 121) and Dr. Tang (MATH 123).

Supporting Attachments:

Findings for 2. Success rate in University College courses

Summary of Findings: For the fall 2010 semester these goals were met with 74.9% A, B or C for MATH 121 and 70.2% A, B or C for MATH 123.

Acceptable Target Achievement: Exceeded

Recommendations : Keep doing what we are doing now.

Reflections/Notes : This is just the fall 2010 data.

Substantiating Evidence:

Fall 2010 Grade Distribution (Excel Workbook (Open XML))

Retention of Undergraduate and Graduate Students
Direct - Other

Details/Description: The assessment means is the actual percentage of undergraduate and graduate students enrolled in fall 2009 that are not graduated during the year will re-enroll in fall 2010.

Acceptable Target: Criteria for Success: If the percentage is at least 80%

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each semester.

Key/Responsible Personnel: Dr. Nani will be the key person to monitor data

Supporting Attachments:

Findings for Retention of Undergraduate and Graduate Students

Summary of Findings: Midyear findings show 72.7% of undergraduates were retained from Fall 09-Fall 10.
100% of graduate students retained from Fall 09-Fall 10
73.1% of all math/cs majors (undergraduates and graduate students) were retained from Fall 2009-Fall 2010.
Target of 80% not met for undergrad majors.

Acceptable Target Achievement: Not Met

Recommendations :

Reflections/Notes :

Substantiating Evidence:

Retention Data (Fall 2009-Fall 2010) for Majors (Microsoft Excel)

4. Increase enrollment in MS Mathematics program

Measures & Findings

Increase enrollment in MS Mathematics program by improving the advertisement of the program and converting at least two courses online format.

No measures specified

Mapped to:

- FSU Strategic Priorities, Initiatives, and Indicators: 1.1.1., 1.4.5., 1.6.2.,
- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.2

2. Enhance student achievement

Enhance the levels of student achievement in program and service courses

3. Implement assessment of logic and problem solving

Implement assessment methods of logical thinking and problem solving skills in order to develop a baseline of student abilities.

Mapped to:

- FSU Strategic Priorities, Initiatives, and Indicators: 1.2.2., 1.2.3.,
- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.1

Measures & Findings

(NSSE) part 11. Thinking Critically and Analytically.
Indirect - Survey

Details/Description: As an indirect means of assessment we will use the National Survey of Student Engagement (NSSE) part 11. Thinking Critically and Analytically.

Acceptable Target: Criteria for success will be a score of 3.00 or better.

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each semester.

Key/Responsible Personnel:

Supporting Attachments:

No Findings Added to (NSSE) part 11. Thinking Critically and Analytically.

2. Assessment plan for two program learning outcomes
Direct - Other

Details/Description: The Department will develop an assessment plan for two program learning outcomes BS in Mathematics and BS in Mathematics Secondary Education Programs.

Acceptable Target: Criteria for success will be establishing a baseline of assessment results.

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each semester.

Key/Responsible Personnel:

Supporting Attachments:

No Findings Added to 2. Assessment plan for two program learning outcomes

4. Assess Readiness of upper-level students

Assess readiness of upper level students for careers or graduate work.

Mapped to:

- FSU Strategic Priorities, Initiatives, and Indicators: 1.2.3.,
- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.1

Measures & Findings

(NSSE) part 7. Culminating Senior Experience
Indirect - Survey

Details/Description: As an indirect measure the department will use the National Survey of Student Engagement (NSSE) part 7. Culminating Senior Experience.

Acceptable Target: Criteria for success will be a score of 3.00

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each academic year.

No Findings Added to (NSSE) part 7. Culminating Senior Experience

Key/Responsible Personnel:

Supporting Attachments:

capstone course evaluation for BS in Computer Science
Program level; Direct - Other

Details/Description: Require all students in BS in Computer Science to take a capstone course. The results will be successful if 70% of the students have highly proficient or proficient outcomes based on evaluations of Senior projects.

Acceptable Target: 70% of students will demonstrate proficiency of knowledge/skills measured by senior projects.

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each spring.

Key/Responsible Personnel: Faculty teaching CSC 490 (capstone course)

Supporting Attachments:

No Findings Added to capstone course evaluation for BS in Computer Science

departmental Exit Exam
Direct - Exam

Details/Description: Require all students from MS in Mathematics program to take the departmental Exit Exam.

Acceptable Target: The results will be successful if 93% of the students pass the exam.

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each semester.

Key/Responsible Personnel:

Supporting Attachments:

No Findings Added to departmental Exit Exam

3. Enhance student services satisfaction

Increase student services satisfaction

1. Increase students satisfied with advisement

Increase the percentage of students satisfied with advisement from 89.29% to 92%.

Mapped to:

- FSU Strategic Priorities, Initiatives, and Indicators: 1.5.2.,
- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.3

Measures & Findings

1. Advising Survey
Indirect - Survey

Details/Description: University will administer the Academic Advisement Survey and supply the department with results.

Acceptable Target: The criteria for success will be 95% of students selecting Agree or Strongly Agree in response to the item: "I am satisfied with the quality of academic advisement."

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each semester.

Key/Responsible Personnel:

Supporting Attachments:

Findings for 1. Advising Survey

Summary of Findings: Midyear findings show 87.2% of students in the major agreed or strongly agreed that they were satidfied with the quality of advising.

Acceptable Target Achievement: Not Met

Recommendations :

Reflections/Notes :

Substantiating Evidence:

AdvisingSurveyFall2010Math (Microsoft Excel)

2. NSSE Item 12 – Overall Academic Advising
Indirect - Survey

Findings for 2. NSSE Item 12 – Overall Academic Advising

Details/Description: score will exceed the university average for seniors (2.81) in 2007

Acceptable Target:

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each academic year.

Key/Responsible Personnel:

Supporting Attachments:

Summary of Findings: Midyear findings show 62% of CS majors, 0% of Math Ed majors, and 100% of Math majors evaluated advising as excellent or good

Acceptable Target Achievement: Not Met

Recommendations :

Reflections/Notes :

Substantiating Evidence:

NSSE 2010 Data (Adobe Acrobat Document)

4. Assess Program Learning Outcomes For MS Math

1. Improve Comprehension of theorems and principles

Improve students' comprehension of theorems and principles in the MS Math program

Mapped to:

- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.1

Measures & Findings

Course-specific tests and presentations
Course level; Direct - Exam

Details/Description: The following courses will assess comprehension of theorems and principles: MATH 507, MATH 611, MATH 511, and MATH 612.

Acceptable Target: 100% of students are expected to achieve the knowledge of major theorems and principles

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each semester.

Key/Responsible Personnel: faculty teaching MATH 507, 511, 611, and 612

Supporting Attachments:

No Findings Added to Course-specific tests and presentations

2. Improve problem solving ability

Improve students' ability to problem solve and apply to real world situations in the MS Math program

Mapped to:

- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.1

Measures & Findings

Tests and Assignments to assess problem solving
Course level; Direct - Exam

Details/Description: Tests and Assignments to assess problem solving ability in MATH 521, 621, 541, and 641. Embedded questions that include real world applications will be administered.

Acceptable Target: 100% of all students are expected to reach acceptable proficiency levels

Implementation Plan (timeline): During Fall 2010/Spring 2011 when courses are taught

Key/Responsible Personnel: Faculty teaching MATH 521, 621, 541, and 641 will be responsible for assessing the learning outcomes.

Supporting Attachments:

No Findings Added to Tests and Assignments to assess problem solving

3. Improve critical thinking and ability to do research

Improve students' criticial thinking skills and ability to conduct research in the MS Math program

Measures & Findings

Research Paper (thesis)
Institution level; Direct - Student Artifact

Details/Description: Rubrics will be used

No Findings Added to Research Paper (thesis)

Mapped to:

- USA- SACS- Comprehensive Standards (Section 3): 3.3.1.1

to assess students' critical thinking and ability to conduct research. Rubrics will be used to evaluate research papers ie thesis required for the program/institution. Students in MATH 699, 541, and 641 and presentations during departmental seminars.

Acceptable Target: 100% of all students are expected to write an acceptable thesis that demonstrates their research skills and critical thinking ability.

Implementation Plan (timeline): Ongoing - we will monitor this at the end of each academic year.

Key/Responsible Personnel: Faculty mentoring students' MS thesis projects will be responsible for assessments.

Supporting Attachments: