

# North Florida Community College

## Assessment Report

NFCC General Ed Competencies Key:

- |  |   |
|--|---|
| 1. Communicate through clear and effective writing             | 7. Develop and apply scientific reasoning   |
| 2. Communicate through clear and effective oral presentations  | 8. Develop and apply ethical principles     |
| 3. Read comprehensively and critically                         | 9. Appreciate the arts and humanities       |
| 4. Think critically  | 10. Develop knowledge of history            |
| 5. Effectively use computers and other technologies            | 11. Develop media and information literacy  |
| 6. Develop and apply mathematical skills and logical reasoning | 12. Appreciate human and cultural diversity |

Departmental Instructional Unit: Mathematics

Department Chairperson: Mr. Daniel Harris

Assessment Period Covered: Fall 2005 – Summer B 2006

### Section 1

### Section 2

### Section 3

*Intended Instructional Unit Outcomes  
(learning objectives):*

*Assessment of Outcomes*

*Use of Results: Explain use of the assessment results to improve instructional unit (curriculum changes, delivery methods, etc.)*

1.)	90% of NFCC students will demonstrate at least 70% proficiency in Basic Arithmetic and Introductory Algebra skills.	NFCC General Ed Competencies Addressed:	4, 6	<p>Improve retention and success rates in MAT 0024C through increased structure of Student Success Center\Math Lab which would include diagnostic pretests, monitored test corrections, portfolio resources, and tutoring.</p> <p>Math Summits with local schools will continue to focus on improvement of entering students' basic skills and enhancement of K12\College faculty communication</p>
		Means of assessment and criteria for success:	<p>Entering students' College Placement Test scores of 72 or better is proof of proficiency.</p> <p>Those scoring below 72 will take remedial coursework and the Florida Basic Skills Exit Test as required after MAT 0024C (passing is 70% or better)</p>	
		Results of assessment activities:	<p>26.7 % of entering students scored 72 or better on the CPT and needed no remediation as defined by Florida Department of Education.</p> <p>Of the 73% needing remediation, 98% of those students with a grade of C or better in MAT 0024C passed the FBSET with a grade of 70% or better.</p> <p>Of the 73% needing remediation, 51% did not have a grade of C or better in MAT 0024C.</p>	

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*Assessment of Outcomes*

*Use of Results: Explain use of the assessment results to improve instructional unit (curriculum changes, delivery methods, etc.)*

2.)	70% of students attempting credit math courses will demonstrate at least 70% mastery of the problem solving, analytical, and logical reasoning skills defined as outcomes of the course.	NFCC General Ed Competencies Addressed:	4, 5, 6	<p>Upon analysis of departmental final results, MAC 1105 course presentation, text, and final will be modified to better reflect institutional and departmental goals.</p> <p>MAT 1033 final exam questions will be item analyzed for appropriateness. Specific course skills missed by more than 40% of students will be emphasized in future instruction.</p> <p>Students exhibiting difficulties with MAT 1033 and MAC 1105 will be directed to the Student Success Center/Math Lab for tutoring.</p>
		Means of assessment and criteria for success:	Course objective coded multiple choice departmental finals are given in MAT 1033, MAC 1105, and MGF 1106 (passing is 70% or better).	
		Results of assessment activities:	<p>Less than 70% of MAT 1033 students passed the final exam Fall 2005</p> <p>Less than 70% of MAC 1105 students passed the final exam Fall 2005</p> <p>75% of MGF 1106 students passed the final exam Spring 2006</p>	

3.)	70% of the students attempting credit math courses will demonstrate 70% or better mastery of critical thinking and mathematical communication skills, and ability to interpret data/graphs.	NFCC General Ed Competencies Addressed:	1, 2, 3, 4, 5, 6	<p>Examine the requirements/grading rubrics of presentations, projects, and portfolios to fine tune alignment with departmental and institutional goals.</p> <p>Examine the feasibility of instituting similar assessments in other courses.</p>
		Means of assessment and criteria for success:	<p>Portfolios in MTG 2204 (passing is 70% or better, rubric graded).</p> <p>Projects in STA 2023 (passing is 70% or better, rubric graded).</p> <p>Presentations and Research papers in MGF1106 (70% or better)</p>	
		Results of assessment activities:	<p>80% of the portfolios in MTG 2204 were scored 70% or better.</p> <p>72% of the projects in STA 2023 were scored 70% or better.</p> <p>93% of research papers and 89% of presentations in MGF 1106 were scored</p>	

Department: Mathematics

