Fond du Lac Tribal and Community College
COURSE OUTLINE

I. Catalog Information

A. Title of Course: Mathematics Success B. Course Designator: STSK 0095

C. Number of Credits: Lecture 1 Lab _____ D. Control Number: 20

E. Catalog/Course description:

Designed for the student placed in developmental mathematics courses, this course will help the student develop study skills specific to math. Topics include: study skills, graphing calculator use, math anxiety, language/symbols of math, and problem solving strategies.

F. Course prerequisites: None

G. Date Approved: 02/23/98
Date Revised: 01/31/11

II. Course Materials (Recommended course materials and resources. List all that apply, e.g. textbooks, workbooks, study guides, lab manuals, videos, guest lecturers)

Textbooks: Mastering Mathematics: How to be a Great Math Student, Richard Manning Smith. Wadsworth Publishing. 1991.

Math Anxiety Reduction, Robert D. Hackworth. H&H Publishing Co., Inc. 1985.

Overcoming Math Anxiety, Randy Davidson & Ellen Levitou. Harper Collins, 1993.

Graphing Calculator TI 85 or TI 86 suggested.

3 ring binder for materials.

Tour and use of library and Center for Academic Achievement.

Overhead projector.

III. Learning Goals, Outcomes, and Assessment Minimum of one goal and two learning outcomes in each competency. *If your course does not meet one of the Competencies Across the Curriculum, please justify your rationale*. Minimum of two assessment measures for each learning outcome. Add other goals and outcomes as needed. If this course is part of the Minnesota Transfer Curriculum (MnTC), attach the MnTC goals**,** outcomes, and your assessment measures to this form; if possible, use them to complete the information below.

A. Information Literacy (the ability to use print and/or non-print tools effectively for the discovery, acquisition, and evaluation of information as well as core computer tools for the manipulation and presentation of information.)

1. Learning Goals:
   Goal: To increase ability in use of electronic equipment.

2. Learning Outcomes and Assessments:
   Outcome: The student will demonstrate ability in use of a calculator in problem solution.
   Assessment: Exercises
   Assessment: Exam

Outcome: The student will demonstrate ability to use internet to research online math tutorials.
Assessment: Exercises
Assessment: Project

B. Ability to Communicate (the ability to listen, read, comprehend, and/or deliver information in a variety of formats.)

1. Learning Goals:
Goal: To increase awareness of study skills and use of textbook.
Goal: To develop student's knowledge of language and symbols of mathematics.

2. Learning Outcomes and Assessments:
Outcome: The student will be able to identify and use features of text.
Assessment: Quiz
Assessment: Class discussion
Outcome: The student will be able to identify strategies in the study of mathematics.
Assessment: Exam
Assessment: Class project
Outcome: The student will be able to demonstrate translation of a word problem into math symbols.
Assessment: exercises
Assessment: exam
Outcome: The student will be able to identify and use symbols for mathematics.
Assessment: exercises
Assessment: exam

C. Problem Solving (the ability to conceptualize, apply, analyze, synthesize, and/or evaluate information to formulate and solve problems.)

1. Learning Goals:
Goal: To identify sources of math anxiety.
Goal: To identify methods used in solving math word problems.

2. Learning Outcomes and Assessment:
Outcome: The student will be able to use personal history to identify issues with math study.
Assessment: Class discussion
Assessment: Journal
Outcome: The student will be able to give at least five strategies to deal with math anxiety.
Assessment: quiz
Assessment: Journal
Outcome: The student will be able to identify the properties used in the solution of a math problem.
Assessment: Exercises
Assessment: Class discussion
Outcome: The student will be able to identify proper use of rules of order in solving problems.
Assessment: Exercises
Assessment: Exam

D. Culture (knowledge of Anishinaabe traditions and culture, knowledge of one's own traditions and culture, knowledge of others' traditions and cultures, and/or respect for global diversity.)

1. Learning Goals:
   Goal: To develop the student's knowledge of the culture of mathematics.

2. Learning Outcomes and Assessments:
   Outcome: The student will be able to identify the rules and properties used by mathematicians
   Assessment: Class discussion
   Assessment: Exam
   Outcome: The student will be able to identify great mathematicians and his/her contributions in history.
   Assessment: Class discussion
   Assessment: Paper

Documentation for MnTC - None

IV. Course Content (Outline the major topics covered in this course.)

Mathematics Anxiety-Mathphobia
- identification
- inventory
- solution

Study Techniques
- note taking
- time management
- assignment format

Mathematics Textbooks
- annotation
- comprehension
- textbook features

Mathematics Language/Symbols
- translation
- notation

Graphing Calculator

Test Taking Hints
- preparation
- problem solving

(revised October 2009)