MAT 119 FINITE MATHEMATICS
Master Course Syllabus

Department of Mathematics and Statistics
College of Engineering, Forestry and Natural Sciences
Northern Arizona University

Semesters Offered:  Fall/Spring  Credit Hours:  3

Course Description: MAT 119 Finite Mathematics is a three semester-hour course designed primarily for students who intend to follow a degree program in the College of Business. The course covers linear functions and modeling, systems of linear equations, introductory linear programming, mathematics of finance, combinatorics and probability, descriptive statistics and distribution. The prerequisite is a grade of C or better in MAT 114.

Student Learning Outcomes:
The successful student will meet the mathematics requirements of undergraduate degree programs that have finite mathematics as a program requirement. They will be provided with the mathematics background required in their subject matter area. See the course outline below.

Course Structure and Approach:
The course is typically delivered in a lecture format. Instructors will use a combination of daily homework, quizzes, and tests, as well as a comprehensive final exam.

Possible Textbooks

Course Outline, Possible Timeline:
1. Linear Equations (3 days): Linear equations, linear functions, and applications.
4. Finance (10 days): Review of compound interest and the extension to continuous compounding. Review of the formulas for savings and loans. Extension of these ideas to include amortization tables, present and future value, etc.

Revised Fall 2010.

7. Additional topics in the above areas as time permits.

Assessment of Student Learning Outcomes and Timeline:
The assessment procedures include: a minimum of three in-class exams (or equivalent), some selection of (a) graded homework assignments, (b) quizzes, (c) writing assignments, (d) applied individual or group projects, and a comprehensive final examination worth at least 20% of the overall grade.

Grading System:
Assignment distributions may vary with instructors; the following is representative:
- Homework/Quizzes 20%
- Technology Projects 10%
- Mid-term Exams 50%
- Final Exam 20%

Grades are distributed by the following percentages of the total points possible.
- A 90-100%
- B 80-89%
- C 70-79%
- D 60-69%

Course Policies:
Attendance policy – This policy may vary from instructor to instructor

Make-up policy – Activities done in class and counted toward your grade as quizzes cannot be made up in the case of non-institutionally recognized absences. No late work will be accepted except in cases of excused documented absences with prior notification and approval.

University policies – Students are responsible for the following policies: Safe Environment, Students with Disabilities, Institutional Review Board, Academic Integrity, and Academic Contact Hour. A copy of these policies may be downloaded from the web site: http://jan.ucc.nau.edu/academicadmin/plcystmt.html.

Revised Fall 2010.