MATH 1630
FINITE MATHEMATICS
3 credit hours

Course Description:
This introduction to finite mathematics is intended for students studying Information Systems, Computer Network Technology, and Business Management. This course is also intended to fulfill the general education requirement for other degree areas. Topics covered include linear equations and systems, matrices, linear programming, finance, set theory, counting methods, probability, and logic.

Course Objectives:
Students will be able to:
  o  Work with linear equations (including graphing and finding intercepts and slope)
  o  Solve applications involving linear equations
  o  Solve systems of equations using multiple methods
  o  Solve application problems involving systems of equations
  o  Perform operations on matrices
  o  Solve linear programming problems graphically
  o  Recognize propositions
  o  Work with compound compositions
  o  Construct truth tables
  o  Work with implications (including converse, contrapositive, and inverse of an implication)
  o  Work with sets (including identifying relations between pairs of sets)
  o  Use and construct Venn diagrams
  o  Solve various types of counting problems
  o  Find a sample space
  o  Find probabilities (including compound and conditional probabilities)
  o  Recognize different types of events
  o  Compute odds
  o  Solve problems involving percents
  o  Solve finance problems involving simple interest loans and discounted loans
  o  Solve finance problems involving compound interest accounts
  o  Solve finance problems involving annuities, sinking funds, present value annuities, and amortizations

Prerequisites:
Two years of high school algebra and an acceptable placement score or DSPM 0850.

Specific Course Requirements:
Students must be familiar and comfortable with basic computer and Internet skills. They must be familiar with and willing to learn a variety of online tools.

Students must be able to use email within D2L. This will serve as the main form of communication.

Complete all graded assignments by the scheduled due date.
Required Textbook:
*Finite Mathematics: for Business, Economics, Life Sciences, and Social Sciences*, 12th edition, Barnett, Ziegler, Byleen (this text should include an access code for MyMathLab, which is a requirement for the class)

Supplementary Materials:
**Calculator:** You just need a basic scientific calculator. The best calculator I have found is the TI-30Xa. This is usually around $10 to $12 at a store like Wal-mart or Target. If you have another basic scientific calculator or a graphing calculator, it is possible you can use it for the course. There are a few calculators that are NOT allowed such as the TI-89 and TI-Nspire or any other brand that uses the CAS system.

**Office supplies:** Graph paper, a three ring binder, and a lot of paper.

Software Requirements:
The minimum requirements are Microsoft Word and Microsoft Excel, as they will be required from time to time. Adobe Acrobat Reader will be required to access notes and handouts and assignments that are sent through D2L. This is a FREE program that can be downloaded.

Assessment and Grading:
**Testing Procedures:**
*Homework and Quizzes* will be completed online through MyMathLab, with designated deadlines for when they will close.
*Special Problems and Projects* will be posted on D2L with ample time to complete. These will need to be submitted through D2L prior to the deadline.
*Midterm and Final Exams* will be a proctored paper and pencil test. You will have to take each on the day assigned at the center where you are viewing the class.

**Grading Procedures:**
Your Homework average will count for 10% of your grade.
Your Special Problem and Project average will count for 20% of your grade.
Your Quiz average will count for 20% of your grade.
The proctored Midterm will count for 25% of your grade.
The proctored Final will count for 25% of your grade.

**Grading Scale:**
90-100--------A
80-89--------B
70-79--------C
60-69--------D
0-59--------F

**Early Bonuses:**
I will be giving a 5-point bonus for any online quiz turned in at least one day before the deadline date. The assignment will have to be completed by midnight of the day before the due date in order to receive the bonus points.
Drop Grades:
Instead of accepting late work, I offer the early bonuses (from the previous section), and I will also give you drop grades. I will drop your lowest quiz grade and Special Problem grade (unless doing so lowers your average). If you do not take a quiz or turn in a Special Problem, then that automatically will be the drop grade for each. Any other quiz or Special Problem not completed after that will be given a grade of zero.

Assignments and Participation:
Attendance:
Attendance is Expected!! (See the DSCC Policy on school's website). If a student should miss a class, that student is responsible for any lecture material, homework, announcements, etc. given during the missed class. Absences will only be excused with written verification, such as a doctor’s note or an email from your coach. No work will be made up for unexcused absences. Excessive Absences: Students with 6 unexcused absences (MWF class) may have their final grade lowered by ONE LETTER GRADE.

Class Participation:
Students must complete all graded assignments by the scheduled due dates. Students must check and read all e-mails as soon as they log into D2L, and keep a regular check on them. Student participation in class discussions is strongly encouraged, but not required.

Punctuality:
All graded assignments must be completed by the scheduled due date. In general, late work will not be permitted. Exceptions to this rule will be granted by instructor permission only, and extensions will be given on a case-by-case basis. YOU must communicate with your instructor PRIOR to the deadline for that assignment in order to be granted an extension. Extensions will only be given in extreme situations.

Responsibility:
Students are responsible for learning how to navigate in D2L. The instructor does not provide technical support for hardware or software. Students are expected to address technical problems immediately. Students should keep abreast of course announcements. Students are expected to use the assigned D2L e-mail address as opposed to a personal e-mail address and observe course netiquette at all times. All work must be completed by the enrolled student only. Work completed by anyone else will be considered cheating and will result in an F for the course.

Syllabus Change:
The instructor reserves the right to make changes as necessary to this syllabus. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes through the D2L e-mail.

ADA Statement:
Dyersburg State Community College is committed to providing a discrimination free environment for all students. Students with disabilities are encouraged to inform the College of any assistance they may need. The instructor must receive written verification of a student’s eligibility from the college before any accommodations can be provided. You should contact Dr. Karen Rutledge at 731-286-3242.
DSCC Classroom Attendance Policy

I. Purpose

The purpose of this policy is to improve student success by setting standards for class attendance.

II. Scope

This policy applies to all credit courses (on ground and online).

III. Policy

Regular class attendance is essential to student success in college. Absence from the classroom negatively affects student success and learning outcomes. Dyersburg State Community College has established the following Class Attendance Policy which is applicable to all students attending classes both in person and online.

1. Attendance at all class sessions and regular participation in any online course for which a student is registered are expected.

2. Absences will be counted from the first meeting of the class.

3. It is the student’s responsibility to contact the instructor prior to an absence from class or shortly after the absence. The instructor will determine whether an absence is excused or unexcused.

4. The student is responsible for all work and/or lecture material covered in any missed class session. The instructor will determine whether to accept makeup work for the class.

5. Students who have three (3) consecutive unexcused absences from a class that meets three (3) hours per week, or two (2) consecutive unexcused absences from a class that meets twice weekly or once weekly in a three (3) hour block, will be reported as “stopped attending.” Students who do not participate in an online course for one week will be reported as “stopped attending.”
6. Students who exhibit a pattern of absences, even if not consecutive, may also be reported as “stopped attending.”

7. A “stopped attending” designation may negatively impact receipt of current and future financial aid.

8. It is the student’s responsibility to officially withdraw from a course if a “stopped attending” designation is reported or if continued, regular attendance proves impossible. In these circumstances, failure to withdraw from a course by the deadline listed in the Academic Calendar will result in a grade of “F,” and may negatively impact eligibility for future financial aid and/or continued enrollment.

9. Nothing in this policy shall be construed as preventing an instructor from having a more restrictive attendance policy regarding absences for an individual class.

IV. Compliance

All DSCC faculty and students are asked to adhere to this policy.

V. Definitions

The Academic Calendar can be found in the DSCC College Catalog.

VI. Revision History

This policy was reviewed by the Faculty Assembly and approved by the Administrative Council in Spring 2011.