COURSE: ACSI 4220/5220: Mathematics of Corporate Finance.
Meeting Times: Tuesday and Thursday 2:40-4:10 P.M.
Location: KOM-205

PREREQUISITES: ACSI 4200: Mathematics of Investment.


INSTRUCTOR: Professor A. Khaliq, KOM-250, Phone: 615-494-8889
E-Mail: akhaliq@mtsu.edu

OFFICE HOURS: 1:00-2:30 p.m. T TR, and other times by appointment

CONTENTS:
- Option strategies
- option valuation using Binomial (CRR model) and Black-Scholes formulas.
- Other financial Derivatives
- Portfolio Optimization, Efficient Frontier
- Financial Risk, Financial Planning
- Present value, Stocks and Bonds
- Net Present value/Capital Budgeting

OBJECTIVES:

This is an advanced corporate finance course which will cover topics recommended by Society of Actuaries to earn VEE credit in Corporate Finance. In this course, students will also learn how to build financial models in Excel, and will be able to work on application problems in Corporate Finance

GRADING: 93-100% A, 87-92% B, 80-86% C, 70-79% D, 0-69% F

Based on the following instruments:

Oral and written presentation. Each one will carry equal points, unless stated otherwise in advance. Take home problems will be assigned and NO final Exam.
Presentations: 60%
Assignments: 40%
Student with graduate credit will be required to submit a project.

Presentations:
You will be given about 5-10 technology based projects using Excel during the semester. By doing these project you should be able build financial models in Excel. Each project will be presented in the class, grading is equally distributed in oral and written presentations. You should strive to start the assignment the day it is assigned. Please write all of your explanation very neatly and present them in a professional looking way. Thus, whenever possible, avoid things such as crossing out work and writing out of order.

Assignments:
You will be given several assignments during the semester. These will be analyzing investment problems. Each assignment will have some challenging questions. You should strive to start the assignment the day it is assigned. Be detailed in your explanations; a lone numerical answer never suffices. Cheating is not to be tolerated, and will dealt according to MTSU policy.

Attendance and Late Work:
Perfect attendance is expected to succeed in the course. To obtain an excused absence due to illness for a day that class meets, you must submit written verification obtained from a physician, or the Office of Student affairs. Excused absences will also be granted for participation in scheduled athletic events or class field trips. In that case you must notify me well in advance of the absence to be excused.

If you have an excused absence for the day an exam is scheduled, you must contact me to make arrangements for taking a make-up test (which will be different from and perhaps slightly more difficult than the original exam). The make-up exam should be taken as soon as possible, and definitely no later than five days after the original test was administered. Missing a test may mean that you will lose the privilege of obtaining written solutions from me.

If you have an excused absence for the day Assignment is due, you must submit the assignment to me within 48 hours of the time it was due. If you are still on excused absence, you must send someone to bring the assignment to my office before the 48 hours has expired. This deadline is strict so that I may give solutions soon after the assignment is due.

Tests and assignments missed without an excused absence will be recorded as zero points. There will be no other chances to complete missing work, so please keep on top of things.

IMPORTANT INFORMATION:

- A grade of “I” will be given only in accordance with university policy.
- **Financial Aid Statement:** To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 attempted hours
and a cumulative TELS GPA of 3.0 thereafter. A grade of C, D, F, or I in this class may negatively impact TELS eligibility. Dropping a class after 14 days may also impact eligibility. If you withdraw from this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. For additional lottery scholarship rules please refer to your Lottery Statement of Understanding form, review lottery scholarship requirements on the web at http://scholarships.web@mtsu.edu/telsconteligibility.htm, or contact the MTSU financial aid office at 898-2830.

- **ADA Statement:**
  If you have a disability that may require assistance of accommodations, or if you have any questions related to any accommodation for testing, note taking, reading, etc., please speak with me as soon as possible. You may also contact the Office of Disabled Student Services (898-2783) with any questions about such services.

The departmental policy for W after the date is

**DEPARTMENT POLICY WITH REGARD TO DROPS AFTER THE OFFICIAL DROP DATE**

No grade of W will be assigned after the official drop date except in situations involving extreme extenuating circumstances beyond the student’s control. In particular, a W will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an F can have ramifications on financial aid.

**NOTE:**

- Syllabus subject to change with notice.
- **Cell phones** are not allowed during exams for any reason, including using them as clocks or calculators.
- Please turn **cell phones** off during class time. If you must leave your phone on, please set to vibrate mode. If you must answer your phone during class, please quietly leave the room to do so. Please do not send text messages during class time.