

**COURSE SYLLABUS
MA 227, CALCULUS III**



*This information is to be completed by the instructor for the course.

I. INSTRUCTOR INFORMATION

- A. Name:
- B. Office: MABLDG ###
- C. Office Phone Number: (256) 765-####
- D. E-mail Address: professor@una.edu
- E. Office Hours: 1 hour is required per course

II. COURSE INFORMATION

- A. Calculus III, MA 227, 4 Credit Hours
- B. Semester/Year, Section ## CRN #####
- C. MTWR, Class Meeting Time, MABLDG ##
- D. Prerequisites: MA 126 with a grade of C or higher
- E. Course Description: This is the third of three courses in the basic calculus sequence. Topics include three-dimensional geometry, vectors and vector functions, functions of two or more variables, partial derivatives and applications, quadratic surfaces, multiple integrals, and vector calculus including Green's Theorem, curl and divergence, line and surface integrals, Stokes' Theorem, and the Divergence Theorem.
- F. Course Objectives: The student shall be able to
 - 1. Solve problems using ideas from Calculus I and II in a multi-dimensional setting.
 - 2. Apply knowledge of three-dimensional objects in an applied setting.
- G. Course Content: The following chapters & topics will be covered
Chapters 11 – 14: Vectors and Vector-Valued Functions, Functions of Several Variables, Multiple Integration, and Vector Calculus.

III. TEXTBOOK AND SOFTWARE

- A. Textbook: *Calculus: Early Transcendentals*, 2nd edition. Briggs, Cochran, and Gillett. Pearson. ISBN-13: 978-0321947345.
NOTE: The homework will be done on the computer using the MyMathLab (MML) software. The MML software is **REQUIRED** for this class. The text is included as an electronic version in the MyMathLab Student Access Kit. **YOU DO NOT NEED TO PURCHASE A BOOK SEPARATELY** unless you want the print version.
- B. Software: MML Student Access Kit; [Mathematica (or MATLAB) and/or Desmos is encouraged but not required]
- C. Calculator Policy: Students are required to have a scientific calculator. A graphing calculator is not needed for this course and may not be used on quizzes or exams. Furthermore, cell phones may not be used as calculators.

IV. ATTENDANCE POLICY

Include attendance policy.

V. FINAL EXAM

Students will be taking a COMPREHENSIVE final exam. This exam will be worth *a minimum of 20% of your overall grade*. The exam is scheduled for *include date* from *include time*. Make necessary arrangements now to attend as NO exceptions will be made.

VI. GRADING SCALE

Grades will be assigned according to the following scale:

- A 90% - 100%
- B 80% - 89%
- C 70% - 79%
- D 60% - 69%
- F Below 60%

VII. GRADING PLAN

Include information on the number and type of evaluation methods (exams, quizzes, labs, homework, papers, etc.) with point or percentage values for each.

VIII. GENERAL COMMENTS BY INSTRUCTOR

UNA Mission Statement: As a regional, state-assisted institution of higher education, the University of North Alabama pursues its mission of engaging in teaching, research, and service in order to provide educational opportunities for students, an environment for discovery and creative accomplishment, and a variety of outreach activities meeting the professional, civic, social, cultural, and economic development needs of our region in the context of a global community.

Include other relevant class information and policies.

**Revised Fall 2019