

**COURSE SYLLABUS
MA 227, CALCULUS III**



I. INSTRUCTOR INFORMATION

- A. Name:
- B. Office: MABLDG ###
- C. Office Phone Number: 256-765-####
- D. E-mail Address: name@una.edu
- E. Office Hours:

II. COURSE INFORMATION

- A. Calculus III, MA 227, 4 Credit Hours
- B. Fall/Spring, Section 01
- C. MTWR (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 vectors, vector-valued functions, functions of several variables, partial derivatives, multiple integrals, vector-fields, line integrals and surface integrals.
- F. Course Objectives: The student shall demonstrate knowledge of
 - 1. Various problem-solving strategies including, but not limited to, reading the problem, interpreting the problem, selecting an appropriate mathematical model, solving the problem and reflecting on the reasonableness of the answer.
 - 2. Resources available to enhance personal knowledge of mathematics.
The student shall demonstrate ability to
 - 3. Use estimation and approximation skills, and assess the reasonableness of solutions to problems.
 - 4. Explain the role, nature, and limitations of current and emerging technology.
 - 5. Use current technology in problem solving and in exploring mathematical concepts.
 - 6. Present and interpret data in graphical form.
 - 7. Select or create appropriate mathematical models to solve problems in mathematics and in other disciplines.
- G. Course Content:
 - 1. Three-Dimensional Space; Vectors
 - 2. Vector-Valued Functions
 - 3. Partial Derivatives
 - 4. Multiple Integrals
 - 5. Topics in Vector Calculus

III. TEXTBOOK AND SOFTWARE

- A. Textbook: *University Calculus: Early Transcendentals*, 2nd edition. Hass, Weir, and Thomas. Pearson. ISBN 978-0-321-75990-0.

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.

- C. Calculator Policy: Instructor creates own calculator policy, however, cell phones may not be used as calculators.

IV. ACADEMIC HONESTY POLICY

Students of the university academic community are expected to adhere to commonly accepted standards of academic honesty. Allegations of academic dishonesty can reflect poorly on the scholarly reputation of the university including students, faculty, and graduates. Individuals who elect to commit acts of academic dishonesty such as cheating, plagiarism, or misrepresentation will be subject to appropriate disciplinary action in accordance with university policy.

Incidents of possible student academic dishonesty will be addressed in accordance with the following guidelines:

1. The instructor is responsible for investigating and documenting any incident of alleged academic dishonesty that occurs under the instructor's purview.
2. If the instructor finds the allegation of academic dishonesty to have merit, then the instructor, after a documented conference with the student, will develop a plan for disciplinary action. If the student agrees to this plan, then both the instructor and student will sign the agreement. The faculty member will forward a copy of the signed agreement to the Office of Student Conduct for record-keeping purposes.
3. If the student disagrees with the instructor's proposed plan for disciplinary action and wishes to take further action, he/she is responsible for scheduling a meeting with the chair of the department where the course is housed to appeal the proposed disciplinary plan. The department chair shall mediate the matter and seek a satisfactory judgement acceptable to the faculty member based on meetings with all parties. If a resolution is reached, the disposition of the case will be forwarded to the Office of Student Conduct. If a resolution at the departmental level is not reached and the student wishes to take further action, he/she is responsible for scheduling a meeting with the dean of the college where the course is housed to appeal the proposed disciplinary plan. The college dean shall mediate the matter and seek a satisfactory judgment acceptable to the faculty member based on meetings with all parties. If a resolution is reached, the disposition of the case will be forwarded to the Office of Student Conduct. If a resolution at the college level is not reached and the student wishes to take further action, he/she is responsible for scheduling a meeting with the Vice President for Academic Affairs and Provost (VPAA/P) to appeal the proposed disciplinary plan. The VPAA/P shall mediate the matter and seek a satisfactory judgement acceptable to the faculty member based on meetings with all parties. After reviewing all documentation, the VPAA/P may, at his/her discretion, choose either to

affirm the proposed action, to refer the case to the Office of Student Conduct for further review, or to dismiss the matter depending on the merits of the case. The final disposition of the case will be disseminated to appropriate parties, including the Office of Student Conduct.

4. If a student is allowed academic progression but demonstrates a repeated pattern of academic dishonesty, the VPAA/P may, after consultation with the Office of Student Conduct, assign additional penalties to the student, including removal from the university.

V. COMMUNICATION

The official method of communication at UNA is UNA portal, with emphasis placed on university email.

VI. DISABILITY ACCOMMODATIONS

In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, the University offers reasonable accommodations to students with eligible documented learning, physical and/or psychological disabilities. Under Title II of the Americans with Disabilities Act (ADA) of 1990, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Amendment Act of 2008, a disability is defined as a physical or mental impairment that substantially limits one or more major life activities as compared to an average person in the population. **It is the responsibility of the student to contact Disability Support Services to initiate the process to develop an accommodation plan.** This accommodation plan will not be applied retroactively. Appropriate, reasonable accommodations will be made to allow each student to meet course requirements, but no fundamental or substantial alteration of academic standards will be made. Students needing assistance should contact Disability Support Services (256-765-4214).

VII. TITLE IX

The University of North Alabama has an expectation of mutual respect. Students, staff, administrators, and faculty are entitled to a working environment and educational environment free of discriminatory harassment. This includes sexual violence, sexual harassment, domestic and intimate partner violence, stalking, gender-based discrimination, discrimination against pregnant and parenting students, and gender-based bullying and hazing.

Faculty and staff are required by federal law to report any observations of harassment (including online harassment) as well as any notice given by students or colleagues of any of the behaviors noted above. Retaliation against any person who reports discrimination or harassment is also prohibited. UNA's policies and regulations covering discrimination and harassment may be accessed at www.una.edu/titleix. If you have experienced or observed discrimination or harassment, confidential reporting resources can be found on the website or you may make a formal complaint by contacting the Title IX Coordinator at 256-765-4223.

VIII. ATTENDANCE POLICY

Regular and punctual daily attendance at all classes is expected of all students. Whenever a student's cumulative absence for any reason - excused or unexcused - exceed the equivalent of three weeks of scheduled classes no credit may be earned for the course. The student will

either withdraw from the course or receive an F for the course grade. Any exceptions to this policy will be in accordance with the university policy.

IX. **FINAL EXAM**

Students will be taking a COMPREHENSIVE final exam. This exam will be worth 25% of your overall grade. The exam is scheduled for **DATE** from **TIME** in **MABLDG ##**. Make necessary arrangements now to attend as there will be NO makeup exams and NO exceptions will be made.

X. **GRADING SCALE**

Decided by instructor

XI. **MYMATHLAB**

Each student MUST register for MyMathLab. To do so, ...

XII. **GRADING PLAN**

Decided by instructor

XIII. **GENERAL COMMENTS BY INSTRUCTOR (Optional)**

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.

Academic Rigor: You are enrolled in an academically rigorous college course. Your success in this course will require a significant investment of time outside of class. It is assumed that the student will invest a minimum of two hours of outside study time for each hour of classroom lecture time.

Organization and Neatness: All work done inside and outside of class should be neat and organized. All work should be stapled and well presented.

Cell Phones: All phones should be turned off prior to entering the classroom.