

# MA 242-03 Syllabus

Online Delivery

**Instructor:** Jessica Ginepro Notestine, [jginepr@ncsu.edu](mailto:jginepr@ncsu.edu)

**Office Hours:** by appointment, I am available most days via zoom. Please email me to setup a time to meet.

**Problem Sessions:** We will have weekly problem sessions via zoom on Tuesdays and Thursdays, 3-4 PM. Attendance is not mandatory. These sessions will be recorded and posted to moodle, so that everyone has access to the material in them. Additionally, notes taken during Problem Sessions will be uploaded to moodle.

**Prerequisites:** MA 241 with grade of C- or better or AP Calculus credit, or Higher Level IB credit.

**Course Description:** Third of three semesters in a calculus sequence for science and engineering majors. Vectors, vector algebra, and vector functions. Functions of several variables, partial derivatives, gradients, directional derivatives, maxima and minima. Multiple integration. Line and surface integrals, Green's Theorem, Divergence Theorems, Stokes' Theorem, and applications. Use of computational tools.

## Course Materials:

- Textbook: Calculus III for Engineers and Scientists - *J.Franke, J.Griggs and L.Norris Edition: II*, Web Link: <http://webassign.ncsu.edu>. All homework will be completed through WebAssign.

## Grade Calculation:

WebAssign/Quizzes	15 %
Tests (4)	60 %
Final Exam	25 %

**Grading Scale:** The final grade will be assigned using the plus/minus grading system.

A+: 98-100	A: 93-97.99	A-: 90-92.99
B+: 88-89.99	B: 83-87.99	B-: 80-82.99
C+: 78-79.99	C: 73.77.99	C-: 70-72.99
D+: 68-69.99	D: 63-67.99	D-: 60-62.99
F: 0-59.99		

**Tests:** There are 3 scheduled tests during the semester. Tests will be timed and open note/open book. Tests dates can be seen in the course schedule. Test times TBD.

**Makeup Policy:** All anticipated absences must be excused in advance of the test date and a makeup test scheduled in advance of the absence, if possible. These include University duties

or trips (certified 1 by an appropriate faculty or staff member), required court attendance (certified by the Clerk of Court), or religious observances (certified by the Department of Student Development: 515-2441). Emergency absences must be reported within 3 days of returning to class and must be appropriately documented (illness by an attending physician or family emergencies by Student Development). No other make-ups will be given.

**Attendance:** For complete attendance and excused absence policies, please see <http://policies.ncsu.edu/regulation/reg-02-20-03>

**Academic Integrity:** Students are required to comply with the university policy on academic integrity found in the Code of Student Conduct found at <http://policies.ncsu.edu/policy/pol-11-35-01>. Your name on any test or assignment indicates "I have neither given nor received unauthorized aid on this test or assignment."

**Homework and Classwork:** All homework will be completed through WebAssign.

**Accommodations for Disabilities:** Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with the Disability Resource Office at Holmes Hall, Suite 304, Campus Box 7509, 919-515-7653. For more information on NC State's policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation (REG02.20.01) (<https://policies.ncsu.edu/regulation/reg-02-20-01/>).

**Non-Discrimination Policy:** NC State provides equal opportunity and affirmative action efforts, and prohibits all forms of unlawful discrimination, harassment, and retaliation ("Prohibited Conduct") that are based upon a person's race, color, religion, sex (including pregnancy), national origin, age (40 or older), disability, gender identity, genetic information, sexual orientation, or veteran status (individually and collectively, "Protected Status"). Additional information as to each Protected Status is included in NCSU REG 04.25.02 (Discrimination, Harassment and Retaliation Complaint Procedure). NC State's policies and regulations covering discrimination, harassment, and retaliation may be accessed at <http://policies.ncsu.edu/policy/pol-04-25-05> or <https://oied.ncsu.edu/divweb/>. Any person who feels that he or she has been the subject of prohibited discrimination, harassment, or retaliation should contact the Office for Equal Opportunity (OEO) at 919-515-3148.

### **Course Schedule:**

Lectures can be accessed via our course moodle page.

Tests will be given as times moodle assignments.

Date	Assigned Lectures	Homework Due	Tests
May 13	Lectures 1, 2, 3		
May 14	Lectures 4, 5		
May 15	Lectures 6, 7, 8		
May 18	Lectures 9, 10, 11		
May 19	Lectures 12, 13		
May 20	Lectures 14, 15, 16		
May 21	Lectures 18, 19		
May 22	Lectures 20, 21, 22		
May 26	Lectures 23, 24	Ch. 1 & 2 WebAssign due	
May 27	Lectures 25, 26, 27		Test 1
May 28	Lectures 28, 29		
May 29	Lectures 30, 32, 33		
June 1	Lectures 34, 35, 36		
June 2	Lectures 37, 38, 39	Ch. 3 WebAssign due	
June 3	Lectures 40, 41, 42		Test 2
June 4	Lectures 43, 44		
June 5	Lectures 45, 46, 47		
June 8	Lectures 49, 50, 51		
June 9	Lectures 52, 53	Ch. 4 & 5 WebAssign due	
June 10	Lectures 54, 55, 56		Test 3
June 11	Lectures 57, 58, 59		
June 12	Lectures 60, 61, 63, 64		
June 15	Lectures 65, 66, 67		
June 16		Ch. 6 & 7 WebAssign due	
June 17-18			Final Exams

Comments:

- Start lecture 4 at 10:25.
- Start lecture 11 at 5:30.
- Lecture 15, only watch up to 14:07.
- Lecture 16, skip 10:20 to 15:54, 17:40 to 19:03, 32:30 to end.
- Lectures 38 and 41 provide more examples and are optional.
- Lecture 55, skip 17:00 to 32:40
- Lecture 60 provides more examples and is optional.
- Start lecture 61 at 23:20.

Optional Lectures:

- Lecture 17 - Review of Chapters 1 and 2

- Lecture 31 - Review of Chapter 3
- Lecture 48 - Review of Chapters 4 and 5
- Lecture 62 - Review of Chapter 6
- Lecture 68 - Semester Review