

MA 225: Section 001 -Summer Session 1 2020 - 1220 SAS

Arranged - On-Line

TEXT: A TRANSITION TO ADVANCED MATHEMATICS

By Smith, Eggen & St. Andre, 8th edition

INSTRUCTOR: R. FULP

OFFICE HOURS: I check my e-mail Monday-Friday shortly after 8:00 AM. I will try to respond to questions then and at other times. I will also check my e-mail from time to time throughout the day

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Essential Course Content

Chapter 1 Logic and Proof

- Propositions and Connectives
- Conditionals and Biconditionals
- Quantifiers
- Proofs

II. Chapter 2: 2.1-2.5 Set Theory

- Basic Ideas
- Set Operations
- Extended Set Operations
- Mathematical Induction

III. Chapter 3: 3.1-3.3 Relations

- Cartesian Products
- Relations
- Equivalence Relations

IV. Chapter 4: 4.1-4.4 Functions

- Functions as Relations
- Construction of Functions
- 1-1 and onto Functions

V. Chapter 5: 5.1-5.3 Cardinality
Finite and Infinite Sets
Countable and Uncountable Sets

FURTHER DETAILS:

HOMEWORK IS ASSIGNED VIA MOODLE

THERE WILL BE TWO TESTS AND A FINAL EXAM

GRADING

HOMEWORK WILL COUNT 25 %

EACH TEST WILL COUNT 25 %

THE FINAL EXAM WILL COUNT 25 %

Grading scale : Plus and minus grades are given sparingly. The highest A is given an A+ and the lowest A an A-, with a similar distribution for B's, C's, and D's. The scales are: 90-100 gets you an A, 80-89 a B, 65-79 a C, and 55-64 a D. Grades below 55 result in an F.

FINAL EXAM: Thursday, 6/18/2020 : 8:00-11:00 1220 SAS

Class policies:

Students are responsible for reviewing the NC State University policies, regulations, and rules which pertain to their course rights and responsibilities:

In particular review: Equal Opportunity and Non-Discrimination Policy Statement with additional references at <https://oied.ncsu.edu/equity/policies/>
In particular review the universities policies on the following: Code of Student Conduct Grades and Grade Point Average Credit-Only Courses Audits
No provisions will be made for students to make up missed work or tests except as spelled out in the University's attendance regulation available at <http://policies.ncsu.edu/regulation/reg-02-20-03> . An incomplete is not offered except in cases where special circumstances (such as outlined in the attendance regulation mentioned above) make it impossible for a student to complete the course. Even in these special circumstances, an incomplete will not be offered unless the student was in a position to pass the class before the special circumstance arose. In particular, an incomplete cannot be used as a way to "bail out" when a student feels that they cannot pass the course

or feels they cannot do all the work they put off until the end of the semester. Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with the Disability Services Office at Suite 2221, Student Health Center, Campus Box 7509, 919-515-7653. For more information on NC State's policy on working with students with disabilities, please see Academic Accommodations for Students with Disabilities Regulation (REG02.20.01) .