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 polices, 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).