

NORTH CAROLINA STATE UNIVERSITY DEPARTMENT OF
MATHEMATICS
MA 103
SUMMER 2019 (sessions 1 and 2)

Course coordinator: Molly Fenn (mafenn2@ncsu.edu)

Text: The textbook for this course is a pdf file which will be pre-loaded into WebAssign for the students. Students will have access to it once they register with WebAssign. In addition, Carolyn Gunton in SAS 2109 has some hard copies of the text if you would like to pick one up from her.

Homework: Webassign is used for homework.

Tests: There are 4 tests scheduled for the course.

Final grade calculation: One example of a grading distribution is below. You may modify it for your class, if desired.

Homework:	15%
Tests:	60% (15% for each)
Final exam:	25%

Letter grades: This course uses standard NCSU letter grading (with NO ROUNDING):

$90 \leq A^- < 93$	$93 \leq A < 97$	$97 \leq A^+ \leq 100$
$80 \leq B^- < 83$	$83 \leq B < 87$	$87 \leq B^+ < 90$
$70 \leq C^- < 73$	$73 \leq C < 77$	$77 \leq C^+ < 80$
$60 \leq D^- < 63$	$63 \leq D < 67$	$67 \leq D^+ < 70$
$0 \leq F < 60$		

Course description: Primarily for students in Humanities and Social Sciences. Illustrations of contemporary uses of mathematics, varying from semester to semester, frequently including sets and logic, counting procedures, probability, modular arithmetic, and game theory.

Schedule: The daily schedule below is meant as a suggestion. You may need to modify it slightly based on your class.

LECTURE	TEXT CHAPTER	TOPIC
1	1	Voting Methods
2	1	Voting Methods
3	2	Weighted Voting
4	2	Weighted Voting
5	Review	
6	Test	
7	3	Fair Division
8	3	Fair Division
9	4	Apportionment
10	4	Apportionment
11	Test	
12	5	Euler Circuits
13	5	Euler Circuits
14	6	Hamilton Circuits
15	6	Hamilton Circuits
16	Test	
17	7	Networks
18	7	Networks
19	8	Scheduling Problems
20	8	Scheduling Problems
21	Test	
22		Selected Topic
23		Selected Topic
24	Review	