

MA 114-001: Introduction to Finite Mathematics with Applications
Summer-2 2021, MTWThF 11:40a-1:10a, Online

Instructor: Isaac Sunseri

Email: ipsunser@ncsu.edu

Class: MTWThF 11:40a-1:10a, Online (Zoom)

Office Hours: T 2:00p-3:00p, TH 1:00p-2:00p, By Appointment (Zoom)

Course Description.

Elementary matrix algebra including arithmetic operations, inverses, and systems of equations; introduction to linear programming including simplex method; sets and counting techniques, elementary probability including conditional probability; Markov chains; applications in the behavioral, managerial and biological sciences. Computer use for completion of assignments.

Prerequisites.

MA 101 or equivalent completed in high school.

Topics.

- Unit 3 - Systems of linear equations and matrices
- Unit 4 - Matrix algebra
- Unit 5 - Linear programming
- Unit 6 - Sets and counting
- Unit 7 - Probability

Course Site.

We will be using [Moodle](#) for this course. You will log in using your Unity ID and password.

Lecture Notes.

Copies of my lecture notes and class recordings will be posted on Moodle the same day as the material is given.

Textbook.

Finite Mathematics by Waner and Costenoble, 7th edition. The eBook is available in WebAssign.

Structure and Grading.

Letter grading follows the +/- 10 point scale on the right below. All other grading in accordance with University policy. Grades will be determined as shown on the left below.

Component	Weight
Homework	25%
Test 1	25%
Test 2	25%
Final Exam	25%

98-100	A+	93-97.99	A	90-92.99	A-
87-89.99	B+	83-86.99	B	80-82.99	B-
77-79.99	C+	73-76.99	C	70-72.99	C-
67-69.99	D+	63-66.99	D	60-62.99	D-

Homework.

Homework will be done through WebAssign and will be due frequently.

Tests.

The tests and final exam will be open note, and open book. More detailed instructions will be provided closer to each test date.

Test #1: Thursday, July 8th (covering 3.1-4.3)

Test #2: Tuesday, July 20th (covering 4.5-5.4)

Final Exam: Tuesday, August 3rd, 12:00p-2:30p (cumulative)

Corrections to Grading.

If you think an error may have been made in the grading of any of your work, please contact me within one week of the assignment being returned. I will only reconsider work that has not been altered from its original state as of the time of initial grading.

Accommodations.

Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with the [Disability Resources Office](#) at Holmes Hall, Suite 304, 2751 Cates Avenue, 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)

Electronically-hosted Components.

Please be advised this course is being recorded for current and potential future educational purposes. By your continued participation in this recorded course, you are providing your permission to be recorded.

List of Policies.

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

- (1) [Equal Opportunity and Non-Discrimination Policy Statement](#)
- (2) [Code of Student Conduct](#)
- (3) [Grades and Grade Point Average](#)
- (4) [Credit-Only Courses](#)
- (5) [Audits](#)

Resources.

Everyone is encouraged to take care of themselves and their peers. If you need additional support, there are many resources on campus to help you:

- (1) [Counseling Center](#)
- (2) [Health Center](#)
- (3) [Share a Concern](#)
- (4) [Pack Essentials](#)