

**MATH 375 Applied Modern Algebra, Section 002**  
**TR 8:30-9:45, Armstrong Hall 315**

Instructor      Tony Se  
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 Office            411A Armstrong Hall  
 Office Hours    MTWTh 2:00-3:00 pm, or by appointment

### General Course Information

Method of Instruction: Lecture  
 Credit Hours: 3  
 Course Prerequisites: MATH 156

### Course Materials

#### *Textbook*

*Discrete and Combinatorial Mathematics – An Applied Introduction*, 5<sup>th</sup> edition, by Ralph P. Grimaldi

#### *Calculators*

If calculators are allowed on an exam, you may only use a basic or scientific calculator.

#### *eCampus*

Information about this course will be posted on eCampus. Please check eCampus regularly for announcements, classwork, homework and exam solutions, your grade, etc. Any updates to this syllabus will also be posted on eCampus.

### Course Outline and Learning Outcomes

We will cover several topics in Part 1 and Part 4 of the textbook. The topics include Set Theory, Logic, Combinatorics, Mathematical Induction, Finite State Machines, Rings, and Finite Fields. Depending on our schedule and student interest, we may cover further topics such as Boolean Algebras, Coding Theory, Graph Theory, and so on. After the course, students will be expected to gain a basic understanding of the topics covered in the course.

### Grading Scale

#### *Breakdown of Points*

Classwork	50
Homework	50
Three midterms	450
Final Exam	200
Total	750

#### *Conversion between Points and Letter Grade*

A	675
B	600
C	525
D	450
F	<450

### Attendance Policy

Attendance points will be part of your classwork. No make-up classwork will be given, but some of the lowest scores of your classwork will be dropped at the end of the semester. You are encouraged to come to the office hours or ask other students for class notes if you want to learn the material that you missed while you were absent.

### Homework

Some of your lowest homework scores will be dropped at the end of the semester. Late homework is not accepted.

## Grading

In this course you will be graded not only on your ability to obtain the correct answer to a problem, but also on your ability to use the problem solving methods taught in this course and your ability to justify your work. A correct answer without supporting work will be given no credit, unless the question states otherwise.

## Exams

You will have three midterm exams during the semester. See the calendar below for the tentative exam dates.

If you know in advance that you will miss a midterm exam for a university-excused absence (for example, you are participating in a university athletics event), we will arrange a make-up, but you must notify me at least **one week** before the scheduled exam. If you miss a midterm exam for any other reason, you will get 0 for the exam.

Your lowest midterm score will be replaced by the average of the percentage scores on your lowest midterm exam and your Final Exam, whichever is higher. Your Final Exam score cannot be replaced.

## Calendar

01/13	Monday	First day of classes
01/17	Friday	Last day to add a class
02/11	Tuesday	<b>Exam 1</b>
03/05	Thursday	<b>Exam 2</b>
03/14	Saturday	Spring Break begins
03/23	Monday	Classes resume
04/07	Tuesday	<b>Exam 3</b>
04/17	Friday	Withdrawal deadline
05/01	Friday	Last day of classes
05/05	Tuesday	<b>Final Exam, 8:00-10:00am</b>

## Adverse Weather Commitment

In the event of inclement or threatening weather, you should use your best judgment regarding travel to and from campus. Safety should be the main concern. If you cannot get to class because of adverse weather conditions, you should contact me as soon as possible. Similarly, if I am unable to reach our class location, I will notify you of any cancellation or change as soon as possible on eCampus.

## Academic Integrity

Students are required to abide by the Math Department Examination Policy (see attached).

The integrity of the classes offered by any academic institution solidifies the foundation of its mission and cannot be sacrificed to expediency, ignorance, or blatant fraud. Therefore, I will enforce rigorous standards of academic integrity in all aspects and assignments of this course. For the detailed policy of West Virginia University regarding the definitions of acts considered to fall under academic dishonesty and possible ensuing sanctions, please see the West Virginia University Academic Catalog at <http://catalog.wvu.edu/undergraduate/coursecredittermsclassification/#academicintegritytext>. Should you have any questions about possibly improper research citations or references, or any other activity that may be interpreted as an attempt at academic dishonesty, please see me before the exam or quiz to discuss the matter.

### **Sale of Course Materials**

All course materials, including lectures, class notes, quizzes, exams, handouts, presentations, and other materials provided to students for this course are protected intellectual property. As such, the unauthorized purchase or sale of these materials may result in disciplinary sanctions under the Campus Student Code.

### **Inclusivity Statement**

The West Virginia University community is committed to creating and fostering a positive learning and working environment based on open communication, mutual respect, and inclusion.

If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, please advise me and make appropriate arrangements with the Office of Accessibility Services (293-6700).

For more information on West Virginia University's Diversity, Equity, and Inclusion initiatives, please see <http://diversity.wvu.edu>

### **Student Evaluation of Instruction**

Effective teaching is a primary mission of West Virginia University. Student evaluation of instruction provides the university and the instructor with feedback about your experiences in the course for review and course improvement. Your participation in the evaluation of course instruction is both strongly encouraged and highly valued. Results are strictly confidential, anonymous, and not available to the instructor until after final grades are released by Admissions and Records. Information about how you can complete this evaluation will be provided later.

Last updated: January 21, 2020