

**Prerequisites/Corequisites:** MP2 or MTH 015.

**Type of Instruction:** Lecture

**Meeting Days and Times:** MW 10:50 pm - 12:05 pm

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**General Education:** This class fulfills 3 credits of the mathematics competency area of the General Education Requirements at Farmingdale State College.

**Catalog Course Description:** A survey of contemporary topics in mathematics designed to develop an appreciation of the power and significance of mathematics and its uses in modeling the world around us. Topics may include the mathematics of social choice, growth and symmetry, mathematical systems Euclidean and non-Euclidean geometries and management science. Credits: 3 (3,0).

**Course Learning Outcomes:** Upon successful completion of the course a student will be able to

- Understand the core concepts of a variety of mathematical topics.
- Use basic reasoning and logic applied to different areas.

**General Course Requirements:**

Participation	10%
Homework	15%
Exam 1	25%
Exam 2	25%
Final Exam	25%

## Participation

In general, participation will be judged by class attendance, activity during in-class discussion of problems, and questions asked in class.

## Homework

Homework problems will be assigned during the semester.

## Exams

There will be two mid-terms worth 25% and a cumulative final worth 25%. The midterms will be in-class on the dates indicated in the calendar. The date of the final is set by the registrar.

## Grade Scale

Grade	Minimum %
A	93
A–	90
B+	87
B	83
B–	80
C+	77
C	73
C–	70
D+	67
D	60
F	0

## Required Materials

- A Survey of Mathematics with Applications, 10th ed, Angel, Abbott, & Runde.
- A calculator (cellphones are not acceptable).

**Makeups:** Make-up exams and quizzes will be given to students who miss exams for valid reasons at the discretion of the instructor provided the student has documentation. In general, acceptable reasons for absence from class include illness, serious family emergencies, special curricular requirements (e.g., field trips, professional conferences), military obligation, severe weather conditions, religious holidays and participation in official university activities such as music performances, athletic competition or debate. Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) will be excused. Other reasons also may be approved. In addition, if you are already aware of a conflict with an exam date, then you need to discuss this with your instructor within the first two weeks of class.

**Religious Absences:** If you are unable to attend class on certain days due to religious beliefs, please consult with your instructor well in advance of the absence so that appropriate accommodation can be made.

**Disability Services Center:** If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Disability Services Center, Roosevelt Hall, Room 151, or call 631-420-2411 as soon as possible this semester.

**Temporary Grades:** A grade of “I” (incomplete) is reported when, for some reason beyond their control, the student misses the final examination or has not completed a portion of the required work for the course. The decision to grant an “I” is at the sole discretion of the instructor. No achievement points are awarded for an incomplete. All incompletes must be resolved and a change of grade submitted no later than 30 days after the beginning of the next semester (fall to spring, winter intersession to spring, spring to fall, summer session to fall). An instructor may grant an extension of an incomplete grade until the end of the semester by documenting and filling the approved form with the Registrar prior to the conclusion of the 30 day period. Any incomplete grade not

finalized or extended by the instructor within the 30 day time period mentioned above will automatically be changed to an “F”. An incomplete does not constitute successful completion of a prerequisite.

**Academic Honesty:** This course expects all students to act in accordance with the [Academic Integrity Policy](#) at the Farmingdale State College. If you work on the homework with your classmates, you must write your own solutions individually. There should be no help given or received on midterms or the final exam. Academic misconduct includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g. papers, projects, examinations and assessments - whether online or in class); presenting, as one’s own, the ideas, words or calculations of another for academic evaluation; doing unauthorized academic work for which another person will receive credit or be evaluated; using unauthorized aids in preparing work for evaluation (e.g. unauthorized formula sheets, unauthorized calculators, unauthorized programs or formulas loaded into your calculator, etc.); and presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors involved. A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation, and shall be subject to the sanctions. Such sanctions include failing the assignment in question and depending on the severity of the incident failing the course and/or other remedies.

**Copyright Statement:** Course material accessed from Blackboard or the Farmingdale website is for the exclusive use of students who are currently enrolled in the course. Content from these systems cannot be reused or distributed without written permission of the instructor and/or the copyright holder. Duplication of materials protected by copyright, without permission of the copyright holder, is a violation of the Federal copyright law, as well as a violation of SUNY copyright policy.

**Cancellation of Classes:** Weather and other campus-wide cancellations will be listed on the home page, Facebook and Twitter and you can also sign up for RAVE and SUNY Alert. Go to the Rave web page and use your Farmingdale user ID and password to enter the site. For SUNY-Alert, please visit the University Police web page. You may also be notified via email of class cancellations.

**Electronic Devices Policy:** Please silence all electronics while in class. Use of electronics during exams is prohibited.

**Attendance Policy:** This course will not deduct points for absences. For absences on exam or quiz days please see the make-up policy above.

**Use of Email:** It is Farmingdale State College policy that instructors and students use the Farmingdale email system or the Blackboard email system to contact one another.

**Proctoring Services:** The instructor will use proctoring services for exam proctoring. For information see <https://www.farmingdale.edu/distance-learning/proctoru.shtml> and/or <https://www.farmingdale.edu/distance-learning/lockdown.shtml>

**Disclaimer:** The instructor reserves the right to adjust the syllabus. By taking this course, you acknowledge that you have read this syllabus and abide to it and any such changes.

**Weekly Schedule:**

Week	Content
Week 1	Set Theory
Week 2	Set Theory
Week 3	Set theory
Week 4	Logic
Week 5	Logic
<b>Week 6</b>	<b>Exam 1</b>
Week 7	Mathematical Systems
Week 8	Mathematical Systems
Week 9	Mathematical Systems
Week 10	Number Theory
Week 11	Number Theory
<b>Week 12</b>	<b>Exam 2</b>
Week 13	Probability
Week 14	Probability

*\*This schedule may be adjusted.*