

MTHT 491**Discrete Mathematics for Middle School Teachers**

Mondays, August 22 – December 5

5:00-8:00 pm

600 SEO

Instructor:Dr. Bonnie Saunders
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www.math.uic.edu/~saunders**Book:**

Discrete Mathematics for K-8 Teachers by Valerie Debellis and Joseph Rosenstein. This interactive book includes discussion, activities, and classroom guides.

Grading:

Grading will be based on the class participation (20%), presentations (20%), homework and quizzes (30%) and final exam (30%). Class attendance is mandatory: missing one class reduces final grade by 90%, missing 2 classes reduces final grade by 80%, missing 3 classes results in failing grade.

Course Content:

We will be studying vertex-edge graphs and using them to solve a variety of special problems. The topic has few mathematical prerequisites and will be presented through activities and student presentations as well as written and oral discussions. The students will be doing the mathematics and explaining the mathematics not just listening to the instructor.

Course Goal:

Through experiences with new and exciting mathematics problems, students will increase their ability to reason and explain mathematics, develop their problem solving skills, and learn how to incorporate discrete mathematics into the K-8 classroom.

Class Schedule – subject to change:

Aug 22	1213 sequence	Oct 17	2.4 – Activities
Aug 29	1.1 – 1.3	Oct 24	2.5 – Activities
Sep 5	LABOR DAY no class	Oct 31	Presentations, quiz
Sep 12	1.4, 1.5	Nov 7	3.1
Sep 19	Presentations, quiz	Nov 14	3.2
Sep 26	2.1 – Activities 1-8	Nov 21	Presentations, quiz
Oct 3	2.2 – Activities 9-13	Nov 28	TBA
Oct 10	2.3 – Activities 14-19	Dec 5	TBA
Final Exam TBA			