

This is the information sheet for Discrete Math, MATH 2513-001, for the Fall Semester 2009. It is your responsibility to acquaint yourself with all the information in this handout, and with any modifications to it that may be announced in class.

**Instructor:** Dr. Noel Brady.

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**Course Web Page:** <http://math.ou.edu/~nbrady/teaching/f09-2513>

**Class Times and Venue:** TuTh 9:00am–10:15am in 121 PHSC.

**Office Hours:** Mon 10:00am–11:00am, Wed 12:00–1:00pm, Thu 1:30pm–2:30pm.

**Text and Course Outline:** The main textbook for the course is *Discrete Mathematics and its Applications* (6<sup>th</sup> Edition), by Kenneth H. Rosen. We shall cover Chapters 1–5, and 8 of the textbook. We will also talk about cardinality of sets and different types of infinity, and may consider other topics from the text as time permits.

This course introduces you to the foundational material of mathematics and provides you with a solid background for other math courses such as linear algebra, number theory, abstract algebra, analysis, topology and graph theory. In particular, we shall learn how to read, to understand and to construct mathematical proofs. We shall learn a variety of counting techniques, and shall become familiar with the concepts of set, function, relation (partial order relation and equivalence relation) and graph.

You will also be encouraged (indeed some homework assignments will be based on this) to participate in activities of the of the mathematical community here at OU. In particular, you will be encouraged to attend OU MathClub events and to become a regular reader of the OU MathClub Blog.

**Attendance:** You are required to attend all lectures, and are responsible for all information given out during them.

**Grading Scheme:** Grades will be assigned by weighting your totals from Homeworks, Quizzes, Midterms, and a Final Examination as shown in the chart below. The Grade scale is:

$$A = 85\% - 100\%; \quad B = 70\% - 84\%; \quad C = 55\% - 69\%; \quad D = 40\% - 54\%$$

Component	When/Where	Percentage
Homework	Usually due in class every Tuesday	20%
Quiz	Several in-class	10%
Midterm I	Tuesday, Sep 22, 9:00am–10:15am, 121 PHSC	15%
Midterm II	Tuesday, Oct 20, 9:00am–10:15am, 121 PHSC	15%
Midterm III	Tuesday, Nov 24, 9:00am–10:15am, 121 PHSC	15%
Final Examination	Thursday, Dec 17, 8:00am–10:00am, 121 PHSC	25%
<b>TOTALS</b>		<b>100%</b>

**Homework:** Homework will be due at the **start** of class on Tuesdays. You are responsible for ensuring that your homework gets turned in on time. Late homework will not be accepted; it upsets the grading process and is unfair to other students. Other homework assignments will be based on participation in departmental activities, such as reading the oumathclub blog, attending MathClub sponsored events, etc.

The homework assignments are there to provide you with a **minimum** level of exposure to the materials outside of class time. You will need to do many more problems before you feel comfortable

with the concepts involved. Take it from experience (of generations of students!) that the way to succeed in a math course is to work (and understand) a large number of problems. The previous sentence is a standard line that I include in calculus information sheets, but it is particularly relevant when one is trying to assimilate abstract concepts. The best way to really intuitively grasp an abstract concept is to understand the details of many of its concrete instances/manifestations.

**Taking Examinations:** Here are a few notes on taking Examinations.

- You cannot use calculators/computers, books or any type of notes during the examinations.
- All examinations must be taken at scheduled times, except in *very extreme circumstances*. So be careful not to make travel arrangements that conflict with examination times. In particular, note that Midterm III is scheduled for the Tuesday before Thanksgiving Break. If you cannot take an examination at a scheduled time, you should contact me well in advance of the test time with a documentable reason, and we will set up a time for a make-up examination. Otherwise, an absence at an exam will result in a score of zero.

**Policy on W/I Grades:** If you drop this course on or before Friday, October 02, you will receive an automatic grade of “W”. If you drop this course after this date, but on or before Friday, October 30, your grade will be “W” or “F”, according to your standing in the class. Dropping the course after this date requires a petition to the College Dean.

Students who are failing the course should not expect to receive an “I” grade in place of a “W” grade. I will only consider assigning an “I” grade if the student is already maintaining a passing grade, has completed most of the course work, and can demonstrate that he/she is unable to complete the work at this time due to circumstances beyond their control.

**Academic misconduct:** Visit <http://www.ou.edu/provost/integrity> for the rules governing cases of academic misconduct. See also the *Academic Misconduct Code*, which is part of the *Student Code* and can be found at <http://www.ou.edu/studentcode>.

**Accommodation of Disabilities:** The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. If you require special accommodation in this course you are requested to speak with me as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone (405) 325-3852 or TDD only (405) 325-4173. Their website is at <http://drc.ou.edu>.

**Religious Holidays:** It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays. Students who plan to observe a religious holiday which may conflict with a class time, should notify me as soon as possible (preferably within the first week of the semester) so that we can make appropriate arrangements.