

**MATH 481: DISCRETE MATHEMATICS
FALL 2008**

Course webpage: <http://www.math.msu.edu/~dhand/481.html>

COURSE SCHEDULE:

8/25	Introduction	8/27	Induction	8/29	Maps and Counting
9/1	Holiday No Class	9/3	2.1 Three basic problems, HW 1 due	9/5	Fourth basic problem
9/8	2.2 Binomial Theorem	9/10	2.3 Inclusion and exclusion, HW 2 due	9/12	2.3 Examples
9/15	Review	9/17	Exam 1	9/19	2.4.1 Double Decks
9/22	2.4.2 Counting with repetition	9/24	2.4.3 Changing Money HW 3 due	9/26	2.4.4 Fibonacci numbers
9/29	2.4.5 Recurrences	10/1	2.4.6 Catalan numbers HW 4 due	10/3	2.5.1 Groups
10/6	2.5.2 Burnside's Lemma	10/8	2.5.3 Cycle index	10/10	2.5.3-4 Pólya's formula
10/13	Review	10/15	Exam 2 HW 5 due	10/17	1.1.1 Graphs
10/20	1.1.2-3 Types of graphs	10/22	1.2.1-2 Trees HW 6 due	10/24	1.2.4 Cayley's Theorem
10/27	1.2.4 The Matrix Tree Theorem	10/29	1.3.1-2 Planar graphs HW 7 due	10/31	1.3.3 Polyhedra
11/3	1.4.1 Graph coloring	11/5	1.4.2 Chromatic number, HW 8 due	11/7	1.4.3 The Five Color Theorem
11/10	Review	11/12	Exam 3	11/14	1.4.4 Chromatic Polynomials
11/17	1.4.4 Chromatic Polynomials	11/19	More Chromatic Polynomials, HW 9 due	11/21	Digraphs
11/24	Eulerian walks	11/26	Open Problems HW 10 due	11/28	Holiday No Class
12/1	Review	12/3	Review	12/5	Review

Final Exam: Thurs. 12/11. Wells C 105. 10am - 12 noon.

IMPORTANT DATES:

Mon. 08/25/08 Classes Begin

Fri. 08/29/08 Online open add period for Fall ends at 8pm.

Mon. 09/01/08 Labor Day, University closed

Tue. 09/02/08 to Fri. 09/05/08 Students go to Undergraduate office, A212 Wells Hall for Mathematics enrollment changes. (late adds, drop to lower course, section changes)

Fri. 09/05/08 Last day to late add a course or change sections within a course. Last day to drop to a lower level course.

Thu. 09/18/08 End of Tuition Refund

Tue. 10/14/08 Middle of Semester, Last day to drop a course without a grade being reported.

Thu. 11/27/08 to Fri. 11/28/08 Thanksgiving Break

Fri. 12/05/08 Last day of classes