

**Math 349 Introduction to Discrete Mathematics Fall 2016**

**Instructor:** Dr. McSorley. Neckers 383.

**Office Hours:** Mon, Wed, Fri: 9.15-11.00am. Or call 453-6596 or email [jmsorley@math.siu.edu](mailto:jmsorley@math.siu.edu) for an appointment.

**Class meeting:** MWF 2-2.50pm EGRA 322.

**Prerequisites:** Math 221 and 250, (also Math 302 is essential and Math 139 is useful).

**Catalog Description:** Numbers, sets, relations and functions, elementary enumeration, introduction to graph theory, logic, partially ordered sets and Boolean algebra, mathematical induction, recurrence relations.

**Text:** Norman L. Biggs *Discrete Mathematics*, 2-nd edition.

pbk ISBN=9780198507178 hbk ISBN=9780198507185

The book also has a website with Student Resources, containing the answers to many of the Exercises in the book.

<http://global.oup.com/booksites/content/9780198507185/>

**Grading:** Your Class Grade will be determined by your performance on the Homeworks, the Exams, and the Final Exam.

**Homeworks:** Each day Homework will be written on the board. This is for you to do yourself and not turn in. During the semester 7 special Homeworks will be given, and these are to be turned in. For these Homeworks you will work in pairs, each student alternately doing the final write up. They will be graded, and returned with solutions, and 2 will be dropped. Total=100 points.

**Exams:** There will be 2 in-class exams. Each Exam is worth 100 points. Total=200 points.

**Final Exam:** The comprehensive Final Exam is worth 200 points. Total=200 points.

**Scale:** The class will be graded on  $100+200+200=500$  points. Class grades will be determined according to the % scale: 90,80,70,60;

	points
A	450-500
B	400-449
C	350-399
D	300-349
F	000-299

**Miscellaneous:**

- Exam 1: Topics from Homeworks 1, 2, and 3.  
Exam 2: Topics from Homeworks 4, 5, and 6.  
Final is comprehensive: HW 1–7.
- The only way to learn math is to do math. Read the book and proofs carefully. You will be required to define mathematical terms precisely and write correct mathematical proofs. It is a good idea to take class notes because some topics and proofs covered in class are not in the book and may be asked on Homeworks and Exams.
- Do all the assigned homework in a timely manner.
- Drop date with refund: Friday Sept.2. (week 2)  
Drop date without refund: Friday Oct.28 (online Sunday Oct.30.) (week 10)
- Holidays:  
Labor Day: Mon, 5 September (week 3)  
Fall Break: Mon 10, Tues 11, October (week 8)  
Veteran's Day: Fri, 11 November (week 12)  
Thanksgiving Break: Wed 23, Thur 24, Fri 25, November (TG week)
- The Final Exam date and time is Monday 12 December 2.45pm–4.45pm in EGRA 322.
- On this Friday 26 August, HW1 will be given out and we can decide on the groups for the HWs.

Study hard and good luck!