Instructor: Dr. McSorley. Neckers A 383.

Office Hours: M, W, F 10.00-11.45am. Or call 453-6596 or email jmcsorley@math.siu.edu for an appointment.

Class meeting: MWF 12-12.50pm EGRA 422.

Prerequisites: Math 349 or Instructor consent. Math 139 & Math 221 are also useful. Read Appendixes 1, 2 & 3 of the text: this contains essential preliminary material about numbers, sets, functions, proof techniques etc. most of which you should already know.

Catalog Description: Graph theory is an area of mathematics which is fundamental to solving problems in computer security, parallel processing, the structure of the World Wide Web, traffic flow and scheduling. It is also playing an increasingly important role within Computer Science.

Possible topics covered include: connectivity, trees, coverings, planarity, colorability, digraphs, domination, matchings, Ramsey theory, extremal graph theory, random graphs.


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

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

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

Final Exam: The comprehensive Final Exam is worth 200 points. Total=200 points.
**Scale:** The class will be graded on $200+100+200=500$ points. Class grades will be determined according to the % scale: 90, 80, 70, 60; or the point scale:

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<th>Points</th>
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<td>450-500</td>
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**Miscellaneous:**
- Exam 1 will cover material from HW 1, 2, and 3.
  Exam 2 will cover material from HW 4, 5, and 6.
  Final is comprehensive: HW 1–7.
- Exam 1 will probably on Friday October 9, (week 7).
- Drop date with refund: Sunday 6 Sep.
  Drop date without refund: Sunday 1 Nov.
- Holidays:
  - Labor Day: Mon 7 September (week 3)
  - Fall Break: Mon 12, Tue 13 October (week 8)
  - Veteran’s Day: Wed 11 November (week 12)
  - Thanksgiving Break: Wed 25, Thur 26, Fri 27 November (TG week)
- The only way to learn math is to do math. Read the book and proofs carefully. Its also a good idea to take class notes.
- We will cover some Sections from each Chapter (except Chapter 7). Some topics not in the book will also be covered.
- On this Friday 28 August, HW1 will be given out and we can decide on the groups for the HWs.
- Final Exam is on Monday 14 Dec, 12.30–2.30pm.

Study hard and good luck!