Mathematics 1160 — Mathematics, A Human Endeavor — Spring 2009

Instructor : Dr. Nancy Van Cleave
Office : OM 3210
Office Hours : 1:00 MWF, 2:00 R, and by appointment
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Course website : `www.eiu.edu/~mathcs/mat1160`

Prerequisite : `ENG 1001G`; and satisfactory completion (C or better) of high school `Geometry` and `Algebra II`, or `MAT 1271`.

Text : **Mathematical Ideas, Tenth Ed.**, by C. Miller, V. Heeren, & J. Hornsby; Addison Wesley Longman Publishing Company, 2004.

Course Overview : Development of mathematical reasoning and problem solving, through concentrated study of a limited variety of topics.

Course Objectives : To promote a positive attitude toward mathematics by exposing students to some of the excitement and beauty of mathematics, to provide an opportunity for students to experience success in mathematics, and to get students to write mathematics with greater clarity and precision.

Academic Integrity : It is assumed the work you do is your own. However, occasionally it may be necessary to ask someone for help. You are permitted to do so, but you must meet these requirements:

- You **acknowledge** the help received. Be specific. Describe the problem you had, the nature of the help you received, and who helped you at the top of the first page of the particular homework.
- You **understand** the solution you turned in. You should be able to explain the reasoning behind any solution for which you received help.

Never copy from another student, nor allow other students to copy your solutions. The Judicial Affairs Office will be used to deal with instances of academic dishonesty and/or plagiarism. Refer to `http://www.eiu.edu/~judicial/student_conduct_code.php` for further details.

Evaluation : There will be three written exams, homework, possible quizzes, and a comprehensive final exam for this course. The relative weights of these components are as follows:

Exam 1	20%
Exam 2	20%
Exam 3	20%
Homework and Quizzes	10%
Final (comprehensive)	30%

Note: the exam dates are given in the schedule on the back of this handout.

Course Grade : The following scale will be used as a first approximation to your grade:

90–100: A 80–89: B 70–79: C 60–69: D 0–59: F

In borderline cases, factors such as consistent attendance, overall trends and the final exam score may be taken into consideration. It is possible that the cut-off scores given above will be lowered. As a result, an overall score of 80 is *guaranteed* to receive at least a B, whereas a score of 78 *might* result in a B.

If you have a documented disability and wish to receive academic accommodations, please contact the Coordinator of the Office of Disability Services (581–6583) as soon as possible.

Miscellaneous :

- Make-up exams are available **only** if you notify me in advance. If you are unable to contact me by phone or email, you can leave a message with the departmental office (581–2028). **Make-up exams are available only if agreed upon *before* the regular exam is given. Further, it is your responsibility to provide adequate documentation of the reasons for the delay.**
- Turn cell phones off during class.
- Please ask questions when you experience problems. Ask in class or come see me during my office hours. The Math & CS Department also provides tutors.

MATHEMATICS 1160 Sec 7 — *Tentative Schedule — Spring 2009*				
WEEK	DATES	READING	TOPICS	NOTES
1	1/13-1/15	Chap 1.1–2	Reasoning, Patterns	
2	1/20-1/22	Chap 1.3–4	Strategies, Graphs	1/19(M) King's b-day/no classes
3	1/27-1/29	Chap 2.1–2	Sets, Diagrams	1/26 Last day to drop, no grade
4	2/3-2/5	Chap 2.3–4	Operations, Surveys	
5	2/10-2/12	Chap 2.5	Cardinality	**2/12(R) Exam 1** 2/13(F) Lincoln's b-day/no classes
6	2/17-2/19	Chap 3.1–2	Logic, Truth Tables	
7	2/24-2/26	Chap 3.3–4	Conditionals, Circuits	
8	3/3-3/5	Chap 3.5–6	Analysis	3/5 - Midterm
9	3/10-3/12	Chap 3	Logic Puzzles, Sudoku	**3/12(R) Exam 2**
–	3/16-3/20			Spring Recess, no classes
10	3/24-3/26	Handout	Arguments: Validity, Fallacies	
11	3/31-4/2	Handout	Graph Theory Basic Concepts, Isomorphism	4/3 last day withdraw W
12	4/7-4/9	Handout	Euler, Hamilton Circuits	
13	4/14-4/16	Handout	Trees, Minimal Spanning Trees	
14	4/21-4/23	Handout	Steiner Trees	**4/23(R) Exam 3**
15	4/28-4/30		TBA	5/1 - last class day
	Sec 7 - 12:30	**FINAL**	Tuesday, 5/5	12:30 - 2:30