Mathematics 1160 — Mathematics, A Human Endeavor — Spring 2010

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Course website: www.eiu.edu/~mathcs

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. *Never copy from another student, nor allow another student to copy your work.* 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.

Workbook : In the workbook provided, you are responsible for summarizing – in your own words – the topics covered in this course plus the examples from the text. The workbook is not intended to take the place of class lecture notes. You may not tape, glue, or staple anything into your workbook – everything in it is to be hand-written by you. You will be allowed to use this workbook during quizzes and exams. You will turn it in for inspection when you turn an exam in, and possibly at random times of my choosing. You are encouraged to work additional problems to ensure you understand the material, and to ask questions when you encounter difficulty in understanding.

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

Exam 1	10%
Exam 2	15%
Exam 3	15%
Exam 4	15%
Workbook (summary), homework, and Quizzes	15%
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.

Miscellaneous :

- **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.** If you are unable to contact me by phone or email, you can leave a message with the departmental office (581–2028).
- **Turn cell phones off** during class, and have them out of sight.
- 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 — see the schedule on a side chalkboard in the classroom or by following the link at `www.eiu.edu/~math`.

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.

MATHEMATICS 1160 Sec 10 — *Tentative Schedule* — *Spring 2010*				
WEEK	DATES	READING	TOPICS	NOTES
1	1/12-1/14	Chap 1.1–2	Reasoning, Patterns	1/15 deadline to add a course
2	1/19-1/21	Chap 1.3–4	Strategies, Graphs	1/18(M) King's b-day/no classes
3	1/26-1/28	Chap 1	Problem Solving	1/25 Last day to drop, no grade
4	2/2-2/4	Chap 2.1–2	Sets, Diagrams	**2/4(R) Exam 1**
5	2/9-2/11	Chap 2.3–4	Operations, Surveys	2/12(F) Lincoln's b-day/no classes
6	2/16-2/18	Chap 2.5	Cardinality	
7	2/23-2/25	Chap 3.1–2	Logic, Truth Tables	**2/25(R) Exam 2**
8	3/2-3/4	Chap 3.3–4	Conditionals, Circuits	3/4 - Midterm
9	3/9-3/11	Chap 3.5–6	Analysis	
–	3/15-3/19			Spring Recess, no classes
10	3/23-3/25	Chap 3	Logic Puzzles, Sudoku	
11	3/30-4/1	Handout	Arguments: Validity, Fallacies	**4/1(R) Exam 3**
12	4/6-4/8	Handout	Graph Theory Basic Concepts, Isomorphism	4/2 last day withdraw W
13	4/13-4/15	Handout	Euler, Hamilton Circuits	
14	4/20-4/22	Handout	Trees, Minimal Spanning Trees	**4/22(R) Exam 4**
15	4/27-4/29	Handout	Steiner Trees	
	Sec 10 - 12:30TR	**FINAL**	Wednesday, 5/5	8:00 - 10:00