

**MATH 201-01, Mathematical methods,
discourse and culture, Spring 2008**

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Instructor: Dr. Tom Caplinger
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Office hours: 9:00 – 10:00 MTWRF and by appointment
Text: *A Transition to Advanced Mathematics*, 6th ed., by Smith, Eggen and Andre, Thompson Brooks/Cole, 2006.

Course Description:

Credits: 4

Degree requirements: Natural Science, F6

A thorough introduction to the reading, writing, presenting and creating of mathematical proofs. Students will learn and practice in a careful and deliberate way the techniques used to prove mathematical theorems. Proofs studied will be chosen from a variety of fields such as set theory, number theory, analysis, algebra and graph theory. Topics also include elements of the history and philosophy of mathematics and an introduction to the mathematical community.

Prerequisite: Math 122 or permission of instructor.

Course Requirements:

In addition to three in- class tests and a comprehensive final exam, students will complete problem sets on a regular basis. These homework assignments will be typical of the types of proofs being studied. Grading of these proofs will be based on accuracy, clarity of expression, and presentation. Students will be asked to present proofs to the class and to participate in the construction of proofs in class.

Course Content:

January 9 – February 6	Chapter 1	Test 1 – February 6
February 8 – March 12	Chapter 2 <i>Spring Break, March 3- -7</i>	Test 2 – March 12
March 14 – April 14	Chapters 3,4 <i>Easter Recess, March 20, 21</i>	Test 3 – April 14
April 16 – April 23	Chapter 5	
April 30	Final Exam	1:00 pm

Grading:

Three tests	45%
Problems Sets	25%
Class participation	10%
Final Exam	20%

If the final exam grade is higher than that of any of the tests, the final exam grade will replace that lowest test grade. Course grades will be assigned on averages in the following ranges:

94 – 100	A	73 – 76	C
90 – 93	A-	70 – 72	C-
87 – 89	B+	67 – 69	D+
83 – 86	B	60 – 66	D
80 – 82	B-	0 – 59	F
77 – 79	C+		