Math 101   **Fall 2012**

Tentative Schedule of Topics, Presentations and Examinations

Date   **Topic**

W	Sep 5	Introduction to mathematical reasoning
F	Sep 7	Ways of proving mathematical statements
M	Sep 10	Propositional logic
W	Sep 12	The natural numbers and the principle of induction
F	Sep 14	Divisibility
M	Sep 17	The real numbers system. Numbers: rational and irrational
W	Sep 19	Properties of real numbers
F	Sep 21	Properties of real numbers (continued)
M	Sep 24	Properties of real numbers (continued)
W	Sep 26	Order in the set of real numbers
F	Sep 28	Order in the set of real numbers (continued)
M	Oct 1	Completeness
W	Oct 3	Consequences of completeness
F	Oct 5	Consequences of completeness (continued)
M	Oct 8	Topology of the real line
W	Oct 10	Review
F	Oct 12	**Exam 1**
M	Oct 15	Sequences of real numbers
W	Oct 17	Convergence
F	Oct 19	Monotone sequences
M	Oct 22	*Fall Recess*
W	Oct 24	Bounded sequences
F	Oct 26	Cauchy sequences and convergence
M	Oct 29	Continuous functions
W	Oct 31	Properties of continuous functions
F	Nov 2	Properties of continuous functions (continued)
M	Nov 5	The intermediate value theorem
W	Nov 7	The extremal value theorem
F	Nov 9	The extremal value theorem (continued)
M	Nov 12	Problems
W	Nov 14	Review
F	Nov 16	**Exam 2**

Date			Topic
M	Nov	19	Special Topic
W	Nov	21	Special Topic
F	Nov	23	*Thanksgiving Recess*
M	Nov	26	Special Topic
W	Nov	28	Special Topic
F	Nov	30	Special Topic
M	Dec	3	Special Topic
W	Dec	5	Special Topic
F	Dec	7	Special Topic
M	Dec	10	Special Topic
W	Dec	12	Special Topic