MA 100 SURVEY OF MATH

Class Session	Winter Session (January 08 - March 21, 2001)
Class Location	Schofield Barracks Education Center
Class Dates/Time	Tuesday & Thursday, 1950 – 2155
Course Description	Introductory course for humanities majors. Selected topics are to acquaint the student with the fields of mathematics. Also, recommended for early childhood education majors. This course fulfills general education requirements in math, but not recommended for students who intend to take MA 103, 110 and 210.
Instructor	Ivan Ormsbee, tele # *668-8993*, *e-mail ink_pen@aloha.net*
Prerequisites	None
Required text	The Nature of Mathematics (8th edition). ISBN 0-534-34988-9. By Karl J. Smith. Brooks/Cole Publishing Company.
Topics	(1) The Nature of Problem Solving. (Ch. 1.1 - 1.4)
	(2) The Nature of Logic. (Ch. 2.1 - 2.2)
	(3) The Nature of Calculation. (Ch. 3.1 - 3.5)
	(4) The Nature of Numbers. (Ch. 4.1 - 4-7)
	(5) The Nature of Algebra (Ch. 5.1 - 5.8)
	(6) The Nature of Geometry (Ch. 7. 1 - 7.4)
	(7) The Nature of Measurement. (Ch. 8.1 - 8.4)
	(8) The Nature of Probability (Ch. 9.1 - 9.5)
	(9) The Nature of Sequences, Series, & Financial Management. (6.1 - 6.6)
	*Topics may be adjusted by the instructor to fit the needs of the class.

Grading			Total Points	Points Earned	Grade
	Quizzes	(8 each)	120 pts.	360 - 400	A
	Oral presentation	(1 each)	25 pts.	320 - 359	B
	Attendance	(20 sessions)	40 pts.	280 - 319	C
	Projects	(4 each)	40 pts.	240 - 279	D
	Final Exam	(1 each)	175 pts.	0 - 239	F
			400 pts.		

Important Dates

Session 01	09 JAN	
Session 02	11 JAN	
Session 03	16 JAN	**Quiz 01**
Session 04	18 JAN	
Session 05	23 JAN	**Quiz 02**
Session 06	25 JAN	**Project #1 Due**
Session 07	30 JAN	**Quiz 03**
Session 08	01 FEB	

Session 09   06 FEB   **Quiz 04**
1st date to begin oral presentations.
Topics: Pythagoras of Samos / Plato / Aristotle

Session 10   08 FEB   **Project #2 Due**
Topics: Euclid of Alexandria / Archimedes of Syracuse

Session 11   13 FEB   **Quiz 05**
Topics: Leonardo Fibonacci (Leonardo of Pisa) / Leonardo da Vinci

Session 12   15 FEB   Topics: Nicolaus Copernicus/ Galileo Galilei
Johannes Kepler / John Napier

Session 13   20 FEB   **Quiz 06**
Topics: Rene Descartes / Blaise Pascal

Session 14   22 FEB   **Project #3 Due**
Topics: Sir Isaac Newton / Gottfried Wilhelm von Leibniz

Session 15   27 FEB   **Quiz 07**
Topics: Johann Bernoulli

Session 16   01 MAR   Topic: Leonhard Euler / Charles Babbage

Session 17   06 MAR   **Quiz 08**
Topics: Albert Einstein / Stephen Hawking

Session 18   08 MAR   Topics: Benoit Mandelbrot / George Polya

Session 19   13 MAR   **Project #4 Due**
Review

Session 20   15 MAR   **FINAL EXAM**