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Pms

MA 100²⁰ SURVEY OF MATH

Class Session Fall Session (October 02 - December 15, 2000)

Class Location Kaneohe MCBH 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 (10 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	03 OCT	
Session 02	05 OCT	
Session 03	10 OCT	
Session 04	12 OCT	Quiz 01
Session 05	17 OCT	Project #1 Due
Session 06	19 OCT	Quiz 02
Session 07	24 OCT	
Session 08	26 OCT	Quiz 03
Session 09	31 OCT	1st date to begin oral presentations. Topics: Pythagoras of Samos / Plato / Aristotle Project #2 Due
Session 10	02 NOV	Quiz 04 Topics: Euclid of Alexandria / Archimedes of Syracuse
Session 11	07 NOV	Topics: Leonardo Fibonacci (Leonardo of Pisa) / Leonardo da Vinci
Session 12	09 NOV	Quiz 05 Topics: Nicolaus Copernicus/ Galileo Galilei Johannes Kepler / John Napier
Session 13	14 NOV	Project #3 Due Topics: Rene Descartes / Blaise Pascal
Session 14	16 NOV	Quiz 06 Topics: Sir Isaac Newton / Gottfried Wilhelm von Leibniz /
Session 15	21 NOV	Topics: Johann Bernoulli
Session 16	28 NOV	Quiz 07 Topic: Leonhard Euler / Charles Babbage
Session 17	30 NOV	Project #4 Due Topics: Albert Einstein / Stephen Hawking
Session 18	05 DEC	Quiz 08 Topics: Benoit Mandelbrot / George Polya
Session 19	07 DEC	Review
Session 20	12 DEC	FINAL EXAM

Quizzes

There are eight quizzes and each quiz is worth fifteen points.

Quizzes will only cover material presented since the last quiz.

There will **not** be any makeups for missed quizzes without prior arrangement and only for an excused absence. Medical documentation requiring quarters or substantiated duty.

Oral Presentation (25 points)

Will be **at least 15 minutes** but **not to exceed 20 minutes** in length. (15 points)

Visual aids are required. (10 points)

An oral presentation outline will be given to the instructor **at least one session** prior to your presentation. (5 point penalty for noncompliance)

No makeups for missed presentation. No exceptions.

Attendance

Each class session is worth two points.

One point for attendance **from 1950 to 2050**

One point for attendance **from 2051 to 2155**

No credit will be given if **any** part of the time frame is missed.