Rice University School Mathematics Project

Education 595: Topics in Contemporary Algebra I
Fall 1999
SYLLABUS

Week	Date	Topic	Due
1	Sept. 14	Integers Algebraic Expressions	
2	Sept. 21	Linear Equations & Inequalities (in one variable)	
3	Sept. 28	Ratio & Proportion	
4	Oct. 5	Patterns and Functions	
5	Oct. 12		
6	Oct. 19	Slope	
7	Oct. 26	Linear Functions & Inequalities	
8	Nov. 2	Linear Systems	Completed Learning Plan due
9	Nov. 9	Polynomials	
10	Nov. 16	Radicals & The Pythagorean Theorem	Learning Plan returned
	Nov. 23	Thanksgiving Break	
11	Nov. 30	Quadratic Functions	Student Product due Exam out
12	Dec. 7	EOC Review Exponents & Exponential Functions	
13	Dec. 14	Closing Session	Exam due

In addition to in-depth concept development teachers will:

- reason and communicate mathematically,
- solve problems,
- collect, analyze, and interpret data - communicating the conclusions symbolically,
- use manipulatives and technology appropriately,
- model and solve real-world situations,
- explore and develop models for assessment.

Rice University Course Requirements:

- attendance at all classes
- punctuality
- completion of all assignments and participation in all classroom activities
- final examination
- professional courtesy and quality work

Course Requirements:

- Develop a learning plan on a topic of your choice to use in your classroom. Use the learning plan format developed for this course. Include complete references and copies of handouts. The focus should be on summative student products. Submit on or before November 2, 1999 for review and feedback before you present it to your students. (30%)

- Choose, design, & produce a student product for any of the learning plans used in this course. The product should be of publishable quality. Due on or before November 30, 1999. (10%)

- Complete the written Final Exam and submit it in class on or before December 14, 1999. (20%)

- Attendance, classwork, homework, and active participation. (40%)

Attendance at 2 of the following professional development opportunities:

- Oct. 2, Saturday - RUSMP Fall Workshop
- Oct. 9, Saturday - 1960 Council Conference: Connecting Math & Science
- Oct. 11, Monday - HISD Secondary Mathematics In-service: Algebra I Potpourri
- Nov. 13, Saturday - HISD Summit Grades 5-10: Algebra Sessions

Teaching Team

Maria Franshaw
franshaw@rice.edu
713/355-3674 (home)

Richard Parr
rparr@rice.edu
713/737-6306 or 713/527-6076 (office)
713/863-9230 (home)

Course Instructors

Anne Papakonstantinou, Executive Director
apapa@rice.edu
713/527-6076 (office)
713/285-5428 (fax)
713/349-1800 x345 (Rice School office)

Elizabeth Herbert, Director of Curriculum
   & Instruction
eherb@.rice.edu
713/527-6076 (office)
713/285-5428 (fax)
713/349-1800 x342 (Rice School office)

RUSMP Staff

Heidi Schweingruber, Director of Research
schwein@rice.edu
713/527-6058 (office)
713/285-5428 (fax)

Doug Hewett, Project Administrator
hewettd@rice.edu
713/527-6036 (office)
713/285-5428 (fax)

Lilly Bonner, Office Manager
lillyb@rice.edu
713/527-6076 (office)
713/285-5428 (fax)