

COURSE NUMBER: 475-4

COURSE NAME: Designs for Learning Mathematics

SEMESTER: Summer

CALENDAR DESCRIPTION: Planning for learning, creating learning environments, developing teaching strategies and materials.

COURSE INFORMATION:

<u>Instructor</u>	<u>Dates</u>	<u>Day(s)</u>	<u>Time(s)</u>
Dr. Sol E. Sigurdson	July 2-Aug. 8	Tues-Thurs.	12:30-4:20

Range of Topics: Secondary School Mathematics Curriculum
-Content and Process Objectives.
Instructional Strategies
-Discovery Type Teaching Traditional Methods
-Mathematics Laboratory Teaching
Special Problems
-Individual Differences
-Skill Development
-Evaluation

Recommended Reading:

Reys and Post - The Mathematics Laboratory (Text) Prindle, Weber, Schmidt, 1973.
Banwell, et al Starting Points Oxford U.P. 1972
Skemp - The Psychology of Learning Mathematics - Pelican
Kidd, K. et al The Laboratory Approach to Mathematics, SRA, 1970.

Requirements:

Four assignments (60%) - stressing the development of materials and guidelines for the classroom.
The specifics of the assignments will be developed in class.
Final exam (20%) will be a relatively minor written test.
Participation (20%) Because the classes will emphasize student activity and participation, 20% of the final grade will be based on this.