

COURSE NUMBER: EDUC. 475-4

COURSE NAME: Designs for Learning: Mathematics
(Elementary)

SEMESTER: Summer/1974(Summer Session)

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>
J. McDowell	July 2-Aug.9	M,W F	8:30 - 11:20 8:30 - 10:20

Range of Topics

Mathematics in the Elementary School:

Awareness games for the very young

Doing "real arithmetic"

Mathematics as "creative writing"

Mental arithmetic

Applied arithmetic

Helping older students to "revisit the web"

Intuitive geometry

The role of the teacher: "What we owe children".

Recommended Reading: (students are advised not to purchase any textbooks
until after the first class meeting)

Gattegno, C., Now Johnny Can Do Arithmetic

Gattegno, C., What We Owe Children

Goutard, M., Mathematics and Children

Jacobs, H., Mathematics: A Human Endeavor

Trivett, J., Games Children Play to Learn Mathematics

Trivett, J., Mathematical Awareness

Requirements:

Each student will be expected to complete a term project and other assignments agreed upon by the participants.