

Problem Solving with Microcomputers

Teacher Education 233 (3 units)

Fall, 1999

Course Description: This course focuses on the use of technology in the classroom within a problem-solving context. Participants will use application programs (e.g., data base management, word processing, hypermedia) and web authoring and graphic tools to explore and present problem-solving strategies.

Course Objectives: Upon completion of this course, students will:

- a. understand the connections between thinking skills and problem solving;
- b. be able to identify curricular situations where the use of problem-solving strategies and technology may be appropriate;
- c. be proficient in developing problem-solving strategies that integrate completely with the existing curriculum;
- d. know how to gather data and resources using the world wide web;
- e. have learned to construct and upload a web page or site;
- f. have become accustomed to using e-mail to communicate with other members of class regarding class assignments;
- g. present the research and conclusions to a curricular problem in a web page or site.

Course Grading will be based on the following:

- Class attendance, preparation and participation; (25%)
- Research project and web page production; (50%)
- Final examination. (25%)

Required materials:

A Whack on the Side of the Head, Roger Von Oech

The Non-Designer's Web Book, Robin Williams and John Tollett

A personal ISP account (or Saclink or Classweb account) activated to accept FTP uploads

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