

SU DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
COSC/MATH 495 Directed Consulting
SYLLABUS (Tentative)

- Objectives:**
- (1) Develop the ability to work as part of a team in the analysis and solution of problems which arise in the world of applied science, management, and industry.
 - (2) Improve the student's ability to do technical writing and speaking.
 - (3) Give the student an opportunity to serve regional business and industry.

Prerequisites: Invitation by the department; willingness on the student's part to spend at least fourteen hours per week on the course.

References: Portions of texts; articles from professional journals; technical reports; computer aids such as data, models, and simulation results.

		<i>Weeks</i>
1.	Meeting of the team members with the project director and the technical liaison from the client company for the purpose of being introduced to the problem.	1
2.	Individual study and analysis of the problem and the relevant mathematics, computer science, and statistics; work as part of the full project team or a subteam in the sharing of ideas, the analysis and possible solution of the problem, and the <i>writing of a report</i> on it; weekly meetings with the project director and the full team to discuss progress and plan further work; monthly meetings with the technical liaison to report progress and receive clarification, suggestions, and direction; occasional meetings with one or more experts in fields pertinent to the problem (perhaps on-campus seminars or workshops conducted by experts); occasional trips, perhaps to the client's location.	12
3.	WRITING ACROSS THE CURRICULUM is accomplished by each student keeping a personal journal, contributing to the class written report, and submitting a value-added paper (which expresses what s/he has learned and how s/he has grown in the course). The class presents to the client an oral report, and its planning becomes a pre-writing exercise for the written report.	<u>1</u> 14

EVALUATION

Research, discussion, computation	30%
Contributing to the written report	30%
Participating in the oral report	20%
Value-added paper	20%

NOTE: COSC/MATH 495 may be taken twice, but used only once toward a degree in Mathematics. COSC/MATH 495 may be taken for a maximum of eight credit hours. (P/F grading only.)