

962-G1-386

**Everette L. May\*** (elmay@ssu.edu), Department of Mathematics & Computer Science, 1101 Camden Avenue, Salisbury, MD 21801. *“Directed Consulting”: A Course in Which Students Solve Real, Not Just Realistic, Problems.*

In June of 1993, the Department of Mathematics and Computer Science (MATH/COSC) at Salisbury State University established a “Center for Applied Mathematical Sciences” (CAMS). The center provides students with opportunities to practice the mathematical sciences on real problems submitted by industrial clients, and faculty with opportunities to apply principles of their fields outside the classroom; aids businesses and industries in the study of long-range problems; and enrolls those institutions in the preparation of tomorrow’s workforce. The vehicle for CAMS’s work is MATH 495, “Directed Consulting” The course combines individual study, regular meetings of the students with the project director and among themselves, and regular but less-frequently-held meetings with a technical liaison from Hypothetical. The goal of the course is the derivation of an incisive analysis of Hypothetical’s problem. The analysis is delivered to the client in the form of a written report and an oral presentation. My talk at the session will consist of a description of the way in which MATH 495 and CAMS came to be, how they work, and what lessons have been learned during the seven years of their existence. (Received September 13, 2000)