

ABOUT UPWARD BOUND and STUDENT SPECIAL SERVICES

Project Upward Bound at Oakland University (since 1966) is administratively located in the Student Special Services Department, Division of Student Affairs, together with other federal, university and industrial sponsored programs designed to provide for the Upward Mobility of students not normally meeting traditional criteria for the College level education. Cadet Engineering is one of the components of Project Upward Bound (jointly sponsored by the School of Engineering) designed to control the causal processes relative to the inadequate preparation of "disadvantaged" students for careers in science and technology.

ABOUT CADET ENGINEERING

In an effort to increase the number of disadvantaged students entering into engineering careers, Oakland University, with the Office of Education, Division of Special Services, Project Upward Bound has established a pre-college program to prepare students for admission to engineering programs. The program will take students at the completion of grade 9, bring them to the campus for a six week summer session and continue with the students' pre-college preparation until graduation from high school. The program will attempt to develop those skills essential for a career in engineering. Students will be sought who are economically disadvantaged, with abstract reasoning ability and high mathematical potential.

THE SUMMER SESSION

Program participants will spend six weeks in properly supervised dormitories located on the campus. During this time, an intensive counseling program, cultural enrichment activities and preparatory classes in computer science, mechanical shop, mathematics, etc. will be conducted. Students will work with engineering faculty on a ratio of 1-10 and tutor counselors on the same ratio who are engineering majors. Students will receive a modest stipend weekly.

THE ACADEMIC FOLLOW-UP

Participants will attend academic support centers conducted by participating Upward Bound Projects weekly. Additionally, students will return to Oakland University monthly for a weekend stay with a "big brother"—an engineering student. Participants will work on engineering projects, attend a class and participate in an Engineering Seminar conducted by a specialist in some area of engineering. A modest stipend will be awarded monthly.

A DEVELOPMENT STATEMENT

After three years of seeking funds from foundations, governmental agencies and individuals, Dean John Gibson, School of Engineering; Dr. Lewis Pino, Research Director and the writer, saw the Cadet Engineering concept become a reality in June, 1970, with a funding announcement from Mr. James Bullock, then Area II Upward Bound Director. Recognizing that the dimensions of reality are laid down by the sub-culture in which the student finds himself, this program, Cadet Engineering, attempts to build new behavioral patterns, widen the vistas of the students and create new options for them. Higher Education in the field of engineering is an announced goal of the program as well as preparation in other areas of science and technology. Oakland University, through Project Upward Bound, have extended a genuine and committed invitation to minority and disadvantaged students, have attempted to reduce frustration and failure for them, and have provided an engineering model which we believe will eventuate in success for the previously "unsought and often untaught."

Manuel H. Pierson, Dean
Student Special Services



President Donald D. O'Dowd (center) reviews the Cadet Engineering grant award to Oakland University. Dr. Leonard O. Spearman, Chief, Division of Student Special Services, U.S. Office of Education, formally announced a grant for the Cadet Engineering Component of Upward Bound. This is the only Cadet Engineering grant awarded in the U.S.A. Looking on is Manuel H. Pierson, Dean for Student Special Services.