I. ACADEMIC SUPPORT

A. Office of the Dean:
Consists of the Dean, Associate Dean, Assistant Dean and their support staff – secretarial, fiscal, clerical, and student help. The Dean administers the total program of instruction, research, and public service for the College including, in addition to standard operating support, responsibility for allocation of resources assigned to the College and for long-range planning of program, facilities, faculty and staff. The Associate Dean concentrates on administrative, academic, and personnel affairs; the Assistant Dean on student academic affairs. Input and advice on decisions is provided by: a) Engineering Executive Committee, composed of Deans and Chairmen of academic departments, President of the Engineering Faculty Senate, and the Chairman of the Engineers’ Council of the University of Hawaii; b) Engineering Faculty Senate; c) Alumni Association; and d) Engineers’ Council of the University of Hawaii, consisting of representatives of the student engineering professional and honorary organizations.

1. Student Services:
The Student Services unit deals with academic admissions, advising, and records for undergraduates. This office also interacts with the general public and responds to requests for data and information regarding college admission requirements and career fields of engineering.

2. Engineering Shop:
Provides assistance to the College faculty and staff in the construction and repair of equipment and apparatus for both instructional and research activity. Services include design, fabrication, assembly, troubleshooting, modification, testing and calibration in the areas of machine shop, electronics, metal working, and welding.

3. Fiscal and Personnel Affairs:
Assists the Dean in meeting his financial management and personnel responsibilities by performing the business administration functions for the College. These functions include personnel management, budget development and execution, procurement, property management, contracts and grants administration, disbursements, receipts, and fiscal control and reporting systems.

II. INSTRUCTIONAL PROGRAM

Includes the following departments and degree programs.

<table>
<thead>
<tr>
<th>Department</th>
<th>B.S.*</th>
<th>M.S.</th>
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<tr>
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<td>X</td>
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<tr>
<td>Department of Electrical Engineering</td>
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*The three basic undergraduate curricula in civil, electrical, and mechanical engineering are accredited by the national accreditation agency, the Accreditation Board of Engineering and Technology, Inc.
A. Civil and Environmental Engineering:
The program in civil and environmental engineering is designed to meet the demands of business, industry and government, where a broad, fundamental education is required. The curriculum develops depth in various areas including environmental and sanitary engineering, structures, applied mechanics, construction engineering, water resources, hydraulics, surveying soil mechanics, transportation and urban engineering. The student gains the broad educational background essential to modern civil environmental engineering practice including an understanding of societal and environmental problems.

B. Electrical Engineering:
Electrical engineering is concerned with the basic form of energy that runs our world and with the exciting world of electronics and information technology. Electronics continues to bring forth new breakthroughs in solid-state technology (transistors, integrated circuits, LSI chips, microprocessors, lasers, optical fibers), which in turn fuel the unprecedented revolutions in telecommunications, computers, instrumentation, and many other areas.

C. Mechanical Engineering:
Mechanical engineers conceive, plan, design, and direct the manufacture, distribution, and operation of a wide variety of devices, machines, and systems used for energy conversion, environmental control, materials processing, transportation, manufacture of consumer products, materials handling, process control, and measurement.

The mechanical engineering finds opportunities for employment in a wide variety of governmental agencies and industries of all types. Work may involve research, design, development, manufacture, marketing, or management.

The mechanical engineering curriculum consists of a group of required courses chosen to develop basic skills needed to solve a wide variety of problems. In addition, elective courses are provided to permit students some degree of specialization in the professional area of their choosing or to allow preparation for graduate education.

D. Computer Facility:
Provides computer hardware and software for College of Engineering faculty, students, and staff for programming instruction, upper-division applications courses, and data acquisition and analysis for research. Services include assuring that hardware is in operable condition, maintaining a system library, programming assistance, and coordinating computing needs with the UH Computing Center or other campus units as necessary. The facilities include only College-acquired equipment, not department-acquired or individual faculty-acquired equipment.

III. RESEARCH PROGRAM

A. The bulk of the research activity conducted within the College of Engineering is performed by faculty whose salaries come entirely from the Instructional budget. Engineering does not have a large cadre of researchers, such as HIG or HAES; and the development of a significant level of extramural funding, necessary to support graduate students and their thesis projects, has been achieved primarily by instructional faculty – over and above their teaching responsibilities.
STATE OF HAWAII  
UNIVERSITY OF HAWAII AT MANOA  
COLLEGE OF ENGINEERING  
HAWAII CENTER FOR ADVANCED COMMUNICATIONS  
August 16, 2000  
FUNCTIONAL STATEMENTS

I. ADMINISTRATION

A. Office of the Director

1. The Director administers the total HCAC program. This includes developing and executing the Center’s Strategic Plan, administering and managing the Center, raising private, federal, and State funding, developing industry and University research collaboration, developing opportunities for undergraduate and graduate students research participation, promoting the advancement of communications industry and communities in Hawaii.

II. RESEARCH PROGRAM

A. The bulk of the research activity conducted within the HCAC will be performed by faculty whose salaries come from both the Center and the College of Engineering’s Instructional budget.

B. The Hawaii Center for Advanced Communications will implement a multidisciplinary approach to interdisciplinary research with a theme of high-performance wireless networks. The major research areas include: Millimeter-wave devices, Millimeter-wave Circuits, Radio Frequency Integrated Circuits, Communications and Coding, Signal Processing and Multi-user Detection, Multimedia Image and Video Compression, and Efficient Network Control and Management.
STATE OF HAWAII
UNIVERSITY OF HAWAII AT MANOA
COLLEGE OF ENGINEERING
August 16, 2004

FUNCTIONAL STATEMENTS

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