

Electrical Engineering

LIBRARY COLLECTION POLICY STATEMENTS

PROGRAM INFORMATION

The Electrical Engineering Department in the College of Engineering seeks to:

- Educate a new generation of Electrical Engineers to meet the challenges of the future.
- Create, develop, and disseminate new knowledge.
- Promote a sense of scholarship, leadership, and service among our graduates.

The department offers the B.S., M.S. (thesis only), and Ph.D. degrees. The undergraduate program is accredited by the national engineering accreditation body, the Accreditation Board for Engineering and Technology (ABET).

The Graduate program, offers M.S. and Ph.D. degrees in these areas of research:

- Bioengineering and Biomedical Engineering
- Computer Engineering
- Electrophysics
- Information Systems and Technology

The department intends to develop strength in bioinformatics, embedded systems, and real-time and distributed systems.

Faculty and graduate student research interests include:

- Telecommunication and networks
- Signal processing
- Computer architecture
- Computer-vision and robotics
- Artificial Intelligence
- Sensing and measurement technology (solid state and sensor devices)
- Neural networks
- Communication
- Computer engineering
- Physical electronics and sensors
- Microwave and optics
- Computer-aided IC design
- VLSI circuit design

The Electrical Engineering Department also has strong ties to the School of Ocean and Earth Science and Technology in a recently founded Hawaii Space Flight Laboratory, established in 2007. The focus of this research and education center is on developing understanding of the space environment and creating technologies to advance space exploration.

II. COORDINATION OF COLLECTING RESPONSIBILITIES

The discipline shares resources with other engineering fields and computer science. The interdisciplinary doctoral program in Communication and Information Science requires coordination between selectors for Information and Computer Science, Communication, Electrical Engineering, and the Library and Information Science Program. Theses and dissertations by EE graduate students are added to the Hawaiian Collection and dissertations are also available online as PDFs from the database, Dissertations and Theses, a ProQuest product.

See also separate statements for the departments of Information and Computer Science, Communication, and the Library and Information Sciences Program.

III. GUIDELINES TO MATERIALS COLLECTED OR EXCLUDED

Language: English is preferred. The collection contains some material in Western European and Slavic languages. Asian language material is housed in both the Science and Technology area and the Asia Collection.

Chronological: No limitations, but the emphasis is on current theories and research.

Geographic: No limitations.

Date of Publication: Current materials are emphasized; gaps are filled as needed; rare and historical materials may be acquired as gifts.

Types/Format of Materials Collected: Scholarly journals are of primary importance. Where available and financially feasible, Web access is preferred for journal subscriptions. Web-accessible journal article databases, including back files, are acquired as funds permit. The IEEE Explore database is a core resource for EE faculty and students. Monographs and monographic series on current research are generally collected in print format, but e-book availability is increasing and is the preferred format for handbooks, manuals, bibliographies, dictionaries, encyclopedias, standards, and other reference sources. Upper level texts, government publications; conference proceedings, industry standards are selectively collected. Audiovisual materials and microforms are purchased only when requested by faculty and funds permit. Excluded are manuscripts, reprints of articles within serials, newsletters and private and company files.

Treatment: Primary sources; reports on scientific experimental results; applications, practices and methods; equipment used in; biographical; historical; reference and bibliographical; statistical and mathematical.

Gifts: The Science and Technology Department accepts gifts to augment the science and technology collections held by the UH Manoa Library. Books that document scholarly research and textbooks no older than five years that are appropriate to university level courses are accepted. We accept other formats as well with the provision that they must be relevant to the research or instruction mission of UH Manoa. In general, we do not accept popular magazines, short journal runs, materials that duplicate items already in our collections, or materials in poor condition. Gifts of Archival materials that relate to the history of the university should be discussed with the University Archives staff. Gifts of journal titles or books in a Web format (the preferred format for journals) are accepted; discussing such a gift with the subject selector (<http://www.hawaii.edu/sciref/reference.html>) is necessary before such a gift can be accepted and integrated into the collection. The subject librarian should be contacted before a gift-in-kind of more than a few items is made to the UH Manoa Library.

When donated items are accepted by the UH Manoa Library they become the possession of the Library. The Library cannot provide monetary appraisals of gifts. The Library reserves the right to make decisions about the disposition of accepted gifts.

Updated 2008 June; Compiler: Sara Rutter