Collection Development Policy
Electrical Engineering

Statement of Purpose and Library Needs:

The Electrical engineering program emphasizes the application of engineering principles to the study of electronics, communications, power and controls, digital systems, microelectronics and information systems. Students in this program also acquire a broad background in engineering science through the study of the engineering core curriculum. The Electrical engineering program offers degrees at the Bachelor's, Master's, and Doctoral level, plus a Wireless Engineering Certificate Program.

Research and development activities within the department of Electrical engineering include:

- The Clean Energy/Electric Vehicle Program
- High Speed Networking Research Program
- Signal Processing Applications Research Program
- Wireless Research Group
- Robotics and Intelligent Machines Lab
- USF SiC Group
- Davis Islands Research Conversion Project.
- MEMS Research Microsystems Technology

Students completing degrees in electrical engineering take course work in the following disciplines: Engineering calculus, chemistry, physics, probability and statistics, differential equations, logic design, linear systems, and electronics. Additional course work areas include: network analysis, electromagnetics, semiconductor devices, wireless circuits and systems and microprocessors.

The Department of Electrical engineering offers the Bachelor of Science in Electrical engineering. Graduate programs include the M.S. in Electrical engineering, the Ph.D. in Electrical engineering, and a post-bachelor's certificate in wireless engineering.

The library endeavors to develop and maintain a collection that will satisfy the need for resources that support the undergraduate and graduate curriculum in electrical engineering, as well as meet many of the more specialized demands from graduate students and faculty for advanced research materials.

I. COLLECTION AREAS

A. Area: Electrical engineering

B. Classes and Levels

<table>
<thead>
<tr>
<th>LC Class</th>
<th>Description</th>
<th>Current Collection</th>
<th>Collection Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q 335</td>
<td>Artificial Intelligence</td>
<td>3c</td>
<td>4</td>
</tr>
<tr>
<td>TJ 211</td>
<td>Robotics</td>
<td>3c</td>
<td>4</td>
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</tbody>
</table>
3c = Advanced study or instructional level. Supports master's degree level program
4 = Research level. Supports doctoral level programs and other original research

C. Scope of Coverage

1. Chronological Guidelines

Emphasis is on acquiring materials dealing with current technology; items dealing with older or outdated technology are acquired selectively, generally through gifts and donations.

2. Geographic Guidelines

There are no geographic limits governing the selection of materials in this discipline.

3. Date of Publication Guidelines

Emphasis is placed on the acquisition of current imprints. Older imprints are acquired selectively according to specified collection intensity levels.

4. Language Guidelines

English is the primary language of the collection. Other languages will be acquired selectively.

D. Types of Materials Collected

1. Treatment of Subject

Emphasis is on maintaining a robust selection of journals in electrical engineering and developing a strong research monographic collection representing the important trade and professional presses. Conference proceedings, technical reports, dissertations, reference works, and graduate and advanced undergraduate texts are acquired selectively. Audio-visual materials and datasets are acquired selectively.

2. Format
Print resources prevail, although an increasing number of current imprints are available electronically, or accompanied by diskettes and CD-ROMs. Full-text electronic journals are continuously added to the USF Libraries Web Site. These are acquired through package arrangements with publishers, or through electronic upgrades of current subscriptions. (Note: Cancellation of a print subscription for which there is an electronic, full-text equivalent is encouraged and will follow the guidelines set forth in the document Selection of Resources for the USF Libraries Web Site.) Audio visual presentations on laboratory procedures and field operations may be selected for purchase. The same holds true for specialized datasets, with the understanding that these resources become the permanent property of the library with no restrictions on who may use them.

II. ACQUISITIONS STRATEGY

Electrical engineering materials are selected by the Collection Development Librarian assigned to the department, with priority given to faculty requests. The library maintains a well-established approval plan for most trade and professional presses of interest to the department, and has current subscriptions to many IEEE journals.

Retrospective purchases are done at faculty request or to replace items lost through theft and damage. Since funding is very limited for new subscriptions, access to articles in journals that are not owned by the library is routinely handled through fee-based document delivery services and inter-library loan. The library encourages faculty to periodically review their journal subscriptions and to cancel titles that are no longer of interest or value. The library occasionally receives donations of electrical engineering journals and monographs from faculty and the community. When it is appropriate to do so, donated materials are added to the collection.

III. COLLECTION NOTES

Upper level undergraduate texts are acquired selectively. Theses and dissertations from other institutions are generally not collected unless they are specifically requested by the faculty. Popular technology items are excluded.

Maryellen Allen

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