

## WRIGHT STATE UNIVERSITY LIBRARIES

### Collection Development Policy Statement

**SUBJECT:** Computer Science; Computer Engineering

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#### UNIVERSITY PROGRAMS

The Department of Computer Science and Engineering offers programs leading to the Bachelor of Science in Computer Engineering, the Bachelor of Science in Computer Science, the Bachelor of Arts in Computer Science, the Master of Science in Computer Engineering, and the Ph.D. in Computer Science and Engineering degrees.

#### Programs of study

Minor program options include: Computer Science and Computer Information Technology. Bachelor of Science in Computer science program options include: general computer science, business, computational science, and bioinformatics. Bachelor of Science in Computer Engineering program options include: general computer engineering, wireless architecture, and wireless software. Bachelor of Arts in Computer science program options include: general computer science, and business. The department offers an Undergraduate Honours program and an Undergraduate Thesis option for exceptional students. The Masters degree program offers thesis and non-thesis tracks.

An undergraduate certificate is available in Object Oriented Programming. Graduate certificates are available in Database Management and Design, Software Engineering, and Software Management. Certificate programs change rapidly to meet the needs of practitioners.

The programs are ABET accredited.

Information regarding programs offered by the department can be found at <http://www.cs.wright.edu/cse/programs/> .

#### History

The Department of Computer Science and Engineering has existed since the University was founded in 1968. The department was organized within the College of Science and Mathematics from 1968 to 1986. The department re-organized within the College of Engineering and Computer Science, established in 1986. The Master of Science in Computer Science program was established in 1974. Both the Bachelor of Science in Computer Engineering and the Master of Science in Computer Engineering programs were established in 1981. The PhD in Computer Science and Engineering was established in 1986. In the later half of the 1990s non-degree

certificate programs at both the undergraduate and graduate levels, as well as several minors at the undergraduate level were established.

## CLASSIFICATION OF LIBRARY MATERIALS

Two areas of the Library of Congress Classification System, QA 76 (computer science) and TK 7886-7889 (computer engineering and hardware), contain most computer science and engineering materials. Related classes include material in the following chart, BF 455 (psycholinguistics), and P 98 (computational linguistics). Materials on computer science applications in special fields are found in the LC class for that field. (Ex: QD 39.3.E46 Data processing in Chemistry)

### Library of Congress classification

Q 9.58	Algorithms
Q 325	Machine learning
Q 327, TK 7882.P3	Pattern Recognition
Q 334-337	Artificial Intelligence
QA 63	Mathematical problem solving
<b>QA 75-76.9</b>	<b>Computer Science</b>
QA 166	Graph Theory
QA 267-268	Machine Theory
T 57.62	Modeling and Simulation
T 58	Management Information Systems
T 385	Computer graphics
TA 1630-1650	Image processing
TK 5102.5	Computer networks
TK 7885	Electronics – special circuits
<b>TK 7885-7895</b>	<b>Electronics – computer engineering and hardware</b>
...	More detailed analytics available upon request.

### Superintendent of Documents classification

C 13	NIST
C 21	Patents and Trademarks
C 51	NTIS
NAS	NASA
NS	National Science Foundation
Y3.2T 22/2	Technology Assessment Office
...	Classifications for independent commissions and congressional committees

## SCOPE OF COLLECTION

### Dates covered: intellectual content

The emphasis of the collection is on recent developments in the field. Materials on the history of computer science and engineering are collected selectively.

### Dates covered: publication dates

Most of the items collected are current imprints. Retrospective purchases (e.g., backfiles of a journal) may be made on occasion.

## **Geographic coverage**

There is no topical geographic collection emphasis or exclusion.

## **Language**

Most material collected will be in English.

## **Types of materials**

Monographic titles and serials are collected. Conferences and textbooks are collected selectively. Standards are rarely collected. Subscriptions to databases include those with citations to articles and those with full text. A list of databases relevant to Computer Science and Engineering is available at <http://www.libraries.wright.edu/quicklinks/databases/subjects.php?id=13> .

## **Format**

Materials are collected in print and electronic format. Relevant videotapes and DVDs are also collected. Selected websites are included in the online catalog and on the online Computer Science and Engineering Research Guide:

<http://www.libraries.wright.edu/services/researchguides/comp/> .

## **Exclusions**

Workbooks are generally not collected. Software and operating system manuals written for the general public are not usually collected.

## **LOCATION OF MATERIALS**

Most materials are housed in the Paul Laurence Dunbar Library. Older and infrequently-used materials are located in the Southwest Regional Depository.

## **INTERDISCIPLINARY RELATIONSHIPS**

Selection of materials in Computer Science and Engineering may overlap with biology, electrical engineering, human factors, language, logic, management information systems, and mathematics.

## **ADDITIONAL LIBRARY RESOURCES**

### **ON-CAMPUS RESOURCES**

Manuals for site-licensed computer programs can be found electronically in computer labs located in the Russ Engineering Center and Computer and Telecommunication Services.

See the collection development policy for Engineering, this section, for research institutes.

### **LOCAL AND REGIONAL RESOURCES**

#### **Local and regional collections**

The Dayton Area Graduate Studies Institute (DAGSI) provides shared access to the collections of University of Dayton and the Air Force Institute of Technology.

Several OhioLINK libraries have strong collections in computer science and engineering. The Brill Science Library at Miami University collects for a masters program in systems analysis. Ohio

State University Libraries collect material to support a doctorate program in computer science. The University of Cincinnati libraries support a masters program in computer science.

**Cooperative loan arrangements**

OhioLINK provides access to circulating materials collected by most academic libraries in Ohio.

OhioLINK membership also provides Wright State with membership in the Center for Research Libraries, which enables faculty, staff, and students to obtain Center materials through interlibrary loan.