

## Computer Science/Computer Information Systems

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### I. Purpose:

Computer Science is traditionally concerned with the science and technology of computing and communication systems. It is the discipline that studies the principles, design and applications of computer systems and computer technologies. Recently, interest has turned to a broader view, encompassing human-computer interaction, autonomous systems, visualization, and technology for multimedia presentations.

The collection supports undergraduate and graduate teaching programs and research at all levels in computer science. Graduate study is offered leading to a Master's degree in Computer Science or Computer Information Systems. While interest is centered in the Department of Computer Sciences, faculty and students in many other parts of the university have specific concerns in computer science: interest is most intensely focused in the fields of business, engineering, linguistics, mathematics, and physics.

### II. General Collection Guidelines:

**A. Languages:** English is the primary language of collection; although works in other languages may be selected if they are of sufficiently high quality or interest. Materials are purchased in English translation whenever possible. Research monographs are collected in other languages if no English translation is likely or available when the material is required. German, French, Russian, and Italian are the predominant foreign languages in this field,

**B. Chronological Guidelines:** Primarily contemporary works.

**C. Geographical Guidelines:** Not applicable. Primary emphasis is on literature from the United States and other English-speaking countries, but translated materials from Japan and Western Europe are also acquired. No nation is specifically excluded. Works that emphasize the law, regulations, or standards that apply in the United States are collected more comprehensively than those emphasizing the law, regulations or standards specific to any other country or group of countries not including the United States.

**D. Treatment of Subject:** Materials that match the curriculum and faculty research specialties will be the focus of acquisition. Biography is selectively purchased. Books on techniques. Theoretical and experimental treatments are emphasized. Lower division popular treatments are selectively acquired. Juvenile

materials and programmed instruction are not acquired. Publications from the major professional societies, such as IEEE and ACM, are actively selected.

**E. Types of Material:** Encyclopedias, dictionaries, directories, handbooks, programming manuals, loose-leaf services, and other supportive reference materials are acquired extensively. Manufacturer's catalogs and system reference manuals are selectively acquired. Audiovisual materials and dissertations from other schools, including microform editions, are selectively acquired. Proceedings and transactions of conferences, symposia, workshops, institutes, and other professional meetings make up a very important part of the collection. U.S. and state government documents are selectively acquired.

Excluded from the circulating collection are: ephemera, pamphlets, preprints, off prints, technical reports, newsletters, manuscripts, juvenile materials, problem-sets.

Excluded from the reference collection are preprinted specialized bibliographies or compilations of citations that could be derived from online databases. Superseded and outdated material is withdrawn, or transferred to the circulating collection if its of ongoing historical interest.

Also excluded are materials in which special equipment not owned by the Library would be needed to use the work in question. For example, floppy disks formatted for Commodore 64 computers would not be collected.

**F. Date of Publication:** Emphasis is on the acquisition of current materials.

**G. Other General Considerations:** Materials dealing with subject specific computer applications, including microcomputers, data processing, and software, are selectively acquired according to guidelines in appropriate subject statements.

**H. Key Internet Resources:**

<http://www.pvamu.edu/Library>

VI. **Observations and Qualifications by Subject and LC Class:**

VII.

Subject	LC Class	CDP[NCIP] Collection Level	Subject Liaison	Courses Supported
Data Processing: See Footnote 1	HF 5548	B	See also, Business Statement (Gay)	CINS 5033

<b>Computational Linguistics:</b> See Footnote 2	P 98	B	See Linguistics Statement (Gay)	
<b>Artificial Intelligence:</b> See Footnote 3	Q 334-6	B	Computer Sciences (LI)	CINS 5273, Comp 5223
<b>Programming Languages</b>	QA 76.7-76.73	B	Computer Sciences (LI)	Comp 1133, Comp 1143, Comp 3143, Comp 5113
<b>Software Engineering</b>	QA 76.758	B	Computer Sciences (LI)	CINS 5183, Comp 3223, Comp 5423
<b>Operating Systems</b>	QA 76.766O63	B	Computer Sciences (LI)	Comp 3063, Comp 5133
<b>Computer Architecture</b>	QA 76.9A73	B	Computer Sciences (LI)	Comp 5123
<b>Simulation</b>	QA 76.9C65	B	Computer Sciences (LI)	Comp 4943
<b>Computer Mathematics:</b> See Footnote 4	QA 76.9M35	B	Computer Sciences (LI)	Comp 5243
<b>Machine Theory:</b> See Footnote 5	QA 267	B	Computer Sciences (LI)	

<b>Computer Graphics</b>	T 385	B	Computer Sciences (LI)	Comp 5263
<b>Data Communications:</b> See Footnote 6	TK 5105	B	See Engineering Statement (Yeh)	CINS 5043, Comp 5213 CPET 4361
<b>Computer Engineering/Computer Hardware:</b> See Footnote 7	TK 7874-7895	B	See Engineering Statement (Yeh)	

*Footnote 1:*

Includes data base systems and programs.

*Footnote 2:*

Includes natural language processing and understanding.

*Footnote 3:*

Includes pattern recognition (speech and vision), machine learning, knowledge representation, planning, and neural networks.

*Footnote 4:*

Includes numerical analysis.

*Footnote 5:*

Includes formal languages and automata.

*Footnote 6:*

Includes local area networks.

*Footnote 7:*

Includes VLSI and memory technology.