

Collection Policy: DESIGN & ENVIRONMENTAL ANALYSIS

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1.0 TEACHING, RESEARCH AND EXTENSION PROGRAMS

1.1 Mission and emphases of the department

The Department of Design and Environmental Analysis is concerned with the planning design and management of buildings to satisfy human needs. The department is internationally known as the leader in research and education in facility planning and management. It is widely recognized as among the leading programs in research and education in human factors/ergonomics, human-environment relations, and interior design.

The Department has a multidisciplinary faculty and is committed to an interdisciplinary approach to solving problems relating to buildings and their users. Faculty expertise is in architecture, planning, facility management, interior design, product design, environmental psychology, ergonomics/human factors, economics, housing, computer aided design and art

The Department has undergraduate, graduate, research and cooperative extension programs in three primary program areas; interior design; facility planning and management; and human environment relations/ergonomics. There are also research and cooperative extension programs in housing as well as a graduate concentration in housing.

1.2 Faculty research

The department has 12 full time faculty (10 with research appointments), three full time research associates and one extension associate.

Research areas are in innovative methods of managing facilities; international facility management; workplace of the future; indoor air quality and sick building syndrome; energy efficient housing; lighting and the health and performance of office workers; the effects of environmental stressors on health and performance; wayfinding and cognitive mapping in complex environments; new ways of working in the 21st century; effects of environment on performance and productivity of office workers; housing and health; design methods; computer aided design; planning and management of facilities; design of offices to support computer intensive work; children's environments; history of interiors and preservation of historic interiors; creativity and the design process.

1.3 Graduate program

(This section is being revised.)

1.4 Undergraduate program

The department ranges between approximately 100-125 undergraduate majors. There are three undergraduate options; interior design with approximately sixty to seventy students; facility planning and management with approximately thirty to forty students; and human factors/ergonomics with ten to twenty students.

All of these undergraduate programs prepare students for entry level professional careers with good to excellent prospects. The interior design program is accredited by FIDER and the facility planning and management program is professionally recognized as the premier program in the field. We have recently strengthened the human factors/ergonomics program with the addition of two new faculty with strong international reputations. All programs also prepare students for graduate study in these fields and in architecture, landscape architecture, environmental psychology, business and city and regional planning.

Nonmajors are enrolled heavily in the department's two introductory courses and rely on library materials.

1.5 Extension activity

Two faculty have extension appointments, one in housing and one in facility planning and management, and the department has one extension associate in housing.

Primary extension programming is in the areas of energy efficient housing, residential indoor air quality, improving the affordability of housing and in improving the efficiency and competitiveness of New York State's manufactured housing industry. The department is beginning a new program in facility planning and management to assist New York state businesses to become more competitive. This program will focus on helping businesses and public organizations and agencies to more effectively use their facilities to improve operations; to reduce the cost of operating their facilities (the second largest cost after personnel); to improve employee health and safety and to help them to meet regulatory demands and requirements.

1.6 Noteworthy facilities (e.g. unique classrooms, laboratories, farms, etc.)

The department has a human factors/ergonomics laboratory to test new environments along with extensive computer simulation and field instrumentation to test environmental conditions such as lighting quality, acoustic conditions, indoor air quality, biomechanics and ergonomics of workstations. The department maintains a shop for both instructional and research purposes, and also has a small darkroom, a gallery, a computer aided design laboratory with 14 workstations, a resource center with reference materials and product samples, and six design studios.

2.0 SUBJECT DESCRIPTION AND GUIDELINES

2.1 Subject definition

Design and Environmental Analysis is concerned with the planning design and management of buildings to improve the health, well being and effectiveness of individuals, families and organizations. The program includes interior design, facility management, and human factors/ergonomics.

2.2 Subject scope

The department has four primary subject areas:

Interior Design: concerned with planning, programming and designing interior spaces and associated products to satisfy human needs. The following areas are collected by Fine Arts: design theory and methods, history and historic preservation, computer-aided design and animation. The following areas are collected by Mann and to some extent ILR: effects of interiors on human health, safety, performance, office layout, the health effects of light, indoor air quality, musculoskeletal disorders related to computers, noise, crowding, proxemics. Picture books of home and facility interiors, excluding catalogs. Works on carpets, draperies and furniture. Historical and geographical treatments of interiors and furniture should be referred to Fine Arts with a request to return them if they will not be collected there.

Facility Planning and Management: involves managing the planning, programming, designing, construction move-in, operation and maintenance of facilities to enable an organization to achieve its goals. The following areas are collected by Mann and to some extent ILR: methods of planning, programming, maintaining, operating and evaluating facilities if there is a behavioral or managerial component; effects of facilities on organizational and individual effectiveness; implications of new ways of working on facilities. Basic texts on human motion analysis. Examples of facilities of interest include office buildings, schools, daycare centers and other children's environments, health care institutions, research and development laboratories and universities. Hotel collects the management of facilities as a major real estate asset.

Human Environment Relations/ Ergonomics: concerned with the effects of environment on human health, safety, satisfaction, performance and effectiveness. Includes environmental psychology, ergonomics, human factors.

Housing: concerned with improving energy efficiency and affordability in housing and with health and safety of housing environments. Fine Arts collects in the area of energy efficiency in commercial buildings. Mann collects in the areas of affordability in housing, health and safety of housing environments and housing options for the elderly and the disabled, specifically how the physical environment facilitates competence and well-being.

2.3 Emerging trends in the subject area

- New working practices (telecommuting, satellite offices, virtual offices, non territorial offices, etc.) and their effects on health, safety, satisfaction, effectiveness and performance.
- Change management for new workplaces and physical environments.
- Effects of new technologies on the quality of the indoor environment and on building occupants (health, safety, satisfaction, effectiveness and performance).
- Computer aided design, (CAD) and animation (collected by Fine Arts).
- Computer aided facility management (CAFM).
- Indoor air quality (IAQ).
- Noise and environmentally caused stress.
- Design planning and programming methods.
- Human factors / ergonomics.
- Environmental psychology.

3.0 SPECIAL INFORMATION NEEDS AND RESOURCES

3.1 Special information needs of those working in this subject area.

Regulations and standards regarding building interiors, facilities, furniture, equipment, etc. Access to citations from the EDRA (Environmental Design Research Association) Proceedings (proceedings are held by Fine Arts) PsycInfo Proceedings, current and historical, of the International Association for the Study of People and their Physical Surroundings (not currently collected at Cornell.)

Bibliographic databases such as BIOSIS Previews, CAB International, AGRICOLA, Zoological Record and the Life Sciences Collection are provided on the Mann Library Gateway.

3.2 Special collections or noteworthy resources in the field

3.3 Endowment funds or special funding arrangements

4.0 TYPES OF MATERIALS

4.1 Priorities for types of materials

See [Priorities Table](#).

4.2 Format

4.3 Geographical guidelines

UK, Netherlands, Scandinavia, France, Australia, Germany, Japan, New Zealand. There is extensive involvement in international facility management and Mann collects literature and information on developments in those countries. Environment and Behavior literature from the UK, Australia, New Zealand and Scandinavia, especially Sweden, is collected.

4.4 Language guidelines

English.

4.5 Chronological guidelines

5.0 OTHER RELATED LIBRARY COLLECTIONS

- ILR--organizational behavior materials, occupational stress.

- Fine Arts--architecture, buildings, design and planning methods, energy efficient buildings, building technology, building materials, illumination and heating, unless there is a behavioral component.
- Johnson School--management practices.
- Hotel School--real estate, facilities operations and maintenance, hotel and restaurant design.
- Engineering--noise, building materials.

In general Fine Arts collects pure architecture, JGSM collects management, and Olin collects psychology. Mann collects materials on the interaction between architecture and either psychology or management.

6.0 POLICY QUESTIONS, COLLECTION NEEDS, FUNDING PROBLEMS OR OPPORTUNITIES

Alan Hedge needs to be consulted about acquisition of HRA bulletins announcing new standards.

7.0 PRINCIPAL LC CLASSES

Selectively:

- HF 5547.2
- NA 2542.3+
- NK 1700-2750
- RA 577.5
- TA 166-167
- TH 6014-7975

Also, works in the BF classification dealing with stress, crowding and noise.

8.0 RELATED COLLECTION POLICIES

- PAAM
- ABEN
- HDFS
- HLTH

Priorities Table for Design & Environmental Analysis

Code	IMPORTANCE/INTENSITY CODES DEFINITIONS
NA	Not applicable to the discipline.
0	Ephemeral; of insufficient value to be provided by library.
1	Of short term interest, but with little or no enduring value; very selectively acquired; retained, uncataloged, for limited duration only, e.g. newsletters in newly emerging, poorly documented areas, and manuals or pamphlets for reserve reading.
2	Limited scholarly interest or utility; collected very selectively, but not of high priority.
3	Important for research and/or instruction; should be well represented, but collected selectively rather than intensively.

4	Very important for faculty and/or students; intensively collected, i.e. every effort is made to provide as deep coverage of this literature as possible.
5	Essential to work in the discipline; the most important type of material for research or instruction purposes. Ensuring the highest possible coverage should be the library's top priority in this discipline.

Code	SERIALS	Notes
5	Journals, scholarly	-
3	Journals, technical	-
-	Journals, other (describe)	-
5	Annual reviews, advances in...	-
2	Scientific and technical reports and research bulletins of major academies, learned societies, professional research and educational organizations and government agencies	-
4	Proceedings, of international congresses and symposia	-
4	Proceedings, national or local	-
2	Statistical series	-
3	Trade journals and periodicals	-
1	Popular periodicals, hobby	-
1	Popular periodicals, semi-technical	-
1	Popular periodicals, farm press	-
1	Newsletters/newspapers	-
3	Proceedings of legislative bodies	-
1	Student publications	-
1	Administrative publications of major academies, learned societies, professional, research and educational organizations and government agencies	-
1	Corporate annual reports	-
1	Yearbooks	-

1	Press releases	-
1	Lists	-
1	Working papers	-

Code	MONOGRAPHS	Notes
5	Major scholarly monographs	-
4	Professional and technical	-
3	Subject histories	-
4	Textbooks, upper division, graduate	-
2	Biographies	-
1	Popular monographs	-
3	Technical reports	-
3	Government reports	-
3	Proceedings, international	-
3	Proceedings, other	-
1	Theses and dissertations (outside CU)	-
1	Festschrift	-
1	Patents	-
1	Corporate histories	-
1	How-to books & lab manuals	-
1	Pamphlets	-
1	Ephemera (describe)	-
1	Maps	-

Code	ELECTRONIC INFORMATION
4	Applications programs
5	Bibliographic databases
1	Bulletin boards
1	Fulltext files
1	Geographic information systems
1	Numeric/statistical files
-	Other (describe, taking as much space a necessary)

1	Technical bulletins/handbooks/compendia	-
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Completed by William R. Sims
Revised by Sam Demas, Gary Evans, Bill Sims, Linda Stewart
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