

ED 032 743

EF 003 785

By-Isler, Norman P.

Planning in Higher Education. An Interpretive Bibliography. Part I: Facilities and Space Utilization.

Wisconsin Univ., Madison. ERIC Clearinghouse on Educational Facilities.

Pub Date Nov 69

Contract-OEC-1-7-07883-5095

Note-46p.

EDRS Price MF-\$0.25 HC-\$2.40

Descriptors- \*Bibliographies, \*Campus Planning, \*College Buildings, \*College Planning, Facility Case Studies, Facility Inventory, Facility Requirements, Facility Utilization Research, \*Higher Education, Space Utilization

The references included were drawn from the documents received and processed to date by the ERIC Clearinghouse on Educational Facilities, and are organized into the following sections--(1) procedures for making facilities and space utilization studies, (2) uses of the computer for facility and space requirements, (3) facilities inventory procedures, (4) research space requirements, and (5) case descriptions of space and facility utilization studies. (FS)

ED0 32743

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**PLANNING IN HIGHER EDUCATION**

**An Interpretive Bibliography in Six Parts**

**Part I**

**FACILITIES AND SPACE UTILIZATION**

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PLANNING IN HIGHER EDUCATION

An Interpretive Bibliography

Part 1

FACILITIES AND SPACE UTILIZATION

Prepared By

Norman P. Isler

Subject Area Coordinator

The work presented herein was performed pursuant to a contract with the U.S. Office of Education, Department of Health, Education and Welfare (OEC-1-7-07883-5095)

ERIC Clearinghouse on Educational Facilities

The University of Wisconsin

Madison, Wisconsin

November 1969

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November 1969

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## FACILITIES AND SPACE UTILIZATION IN HIGHER EDUCATION

The documents included in this bibliography are concerned with the utilization of space and facilities, their inventory, procedures and methodologies in projecting future needs, including uses of the computer and case descriptions.

	<u>Pages</u>
Procedures for Making Facilities and Space Utilization Studies	
Some of the issues dealt with cover systems of space classification, procedures for room inventory, residential housing facilities, enrollment, instructional workload, and more efficient use of space.	2-9
Uses of the Computer for Facility and Space Requirements	
The determination of space and facility requirements by the computer employing several different techniques is described.	11-13
Facilities Inventory Procedures	
Seven references concerned with methods for the establishment of an inventory of physical facilities are included. Among the topics discussed are required and necessary data, compilation and recording of data on special forms, and room and building classification schemes.	15-21
Research Space Requirements	
Buildings for research and their spatial requirements is the subject of four references. The subject matter of the research, the level of activity, and the demand unit approach are all discussed as they relate to space needs.	23-26
Case Descriptions of Space and Facility Utilization Studies	
Nine separate descriptions of studies of space utilization and facility requirements as reported by institutions of higher education. Each institution reports on its particular study, its methodology, results, and recommendations.	28-40

PROCEDURES FOR MAKING FACILITIES AND SPACE UTILIZATION  
STUDIES



HORIZONTAL AND VERTICAL CIRCULATION IN UNIVERSITY INSTRUCTIONAL AND RESEARCH BUILDINGS

UNIVERSITY FACILITIES RESEARCH CENTER, MADISON, WISCONSIN

PUBLISHED- 61

024 PAGES

DESCRIPTORS- \*BUILDING DESIGN, \*CODIFICATION, \*COLLEGE BUILDINGS, \*COLLEGE PLANNING, \*FACILITY GUIDELINES, FACILITY UTILIZATION RESEARCH

TO FACILITATE CIRCULATION PLANNING IN BUILDINGS USED FOR HIGHER EDUCATIONAL INSTRUCTION AND RESEARCH, A PILOT STUDY WAS CONDUCTED WITH THE INTENT OF DEVELOPING GENERALIZED RECOMMENDATIONS FOR HORIZONTAL AND VERTICAL CIRCULATION FACILITIES. A SURVEY TECHNIQUE WAS DEVELOPED AND APPLIED TO FOUR CLASSROOM AND TWO RESEARCH BUILDINGS IN ORDER TO OBSERVE AND RECORD--(1) CIRCULATION ON PARTICULAR FLOORS DURING PEAK WORK LOADS, (2) NUMBER OF PERSONS IN EACH ROOM ON A FLOOR DURING THE MORNING, (3) THE LENGTH OF THE KEY CIRCULATION ROUTES, (4) TRAVEL TIME OF KEY ROUTES DURING PEAK PERIODS. DATA ON PERMISSIBLE DENSITY, CLASSROOM UTILIZATION AND PLANNING STANDARDS WERE CONSIDERED IN THE RECOMMENDATIONS FOR HORIZONTAL CIRCULATION. IN ADDITION TO THESE FACTORS, VERTICAL CIRCULATION RECOMMENDATIONS CONSIDERED LAND, BUILDING AND CIRCULATION FACILITIES COSTS. IN ORDER TO PLACE THE STUDY WITHIN THE FRAMEWORK OF CORRECT DESIGN PRACTICE THE HORIZONTAL AND VERTICAL CIRCULATION RECOMMENDATIONS WERE COMPARED WITH BUILDING CODES OF TWO CITIES, THREE STATES AND TWO NATIONAL ASSOCIATIONS. IN ADDITION TO INTRA-BUILDING CIRCULATION, CLASS SCHEDULING AND PHYSICAL PLANT LOCATION WILL DETERMINE CIRCULATION TIME AND DISTANCE. SURVEY PROCEDURE AND THE DATA COLLECTION FORM ARE PRESENTED IN THE APPENDIX. (BH)

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TO BUILD OR NOT TO BUILD. A REPORT ON THE UTILIZATION AND  
PLANNING OF INSTRUCTIONAL FACILITIES IN SMALL COLLEGES

BY- JAMRICH, JOHN X.  
EDUCATIONAL FACILITIES RESEARCH CENTER, NEW YORK, N. Y.

PUBLISHED- 62

74 PAGES

DESCRIPTORS- \*BUILDINGS, \*COLLEGE PLANNING, \*FACILITY INVENTORY,  
\*FACILITY UTILIZATION RESEARCH, \*METHODOLOGY, CAMPUS PLANNING,  
EDUCATIONAL TRENDS, SPACE UTILIZATION, STUDENT ENROLLMENT,  
STUDENT TEACHER RATIO

THE REPORT GIVES AN EXTENSIVE COLLECTION OF DATA ASSEMBLED  
FROM OVER 60 FOUR-YEAR, DEGREE-GRANTING, LIBERAL ARTS COLLEGES IN  
THE NORTH CENTRAL REGION OF THE UNITED STATES ALL OF THEM WITH  
ENROLLMENTS UNDER 3000. THE PURPOSE OF THE REPORT IS TO HELP  
INCREASE THE EFFICIENCY OF USE OF EXISTING SPACE TO MAKE ROOM FOR  
MORE STUDENTS THEREBY REDUCING THE QUANTITY OF NEW SPACE TO BE  
BUILT. THE DATA FOCUS UPON IMPROVEMENT OF UTILIZATION OF EXISTING  
INSTRUCTIONAL SPACE AND PLANNING NEW SPACE. A UNIQUE FEATURE OF  
THIS REPORT IS A SPACE UTILIZATION WORKBOOK FOR DETERMINING HOW  
INSTRUCTIONAL SPACE IS BEING USED. THE DATA IS INTENDED AS AN AID  
TO ANY LIBERAL ARTS COLLEGE EMBARKING ON A SPACE UTILIZATION  
STUDY. COPIES OF THIS REPORT MAY BE OBTAINED FROM EDUCATIONAL  
FACILITIES LABORATORIES, INC., 477 MADISON AVENUE, NEW YORK, N.  
Y. 10022. (HH)

Availability:

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New York, New York 10022

**GUIDELINE PROCEDURES AND CRITERIA FOR CAMPUS DEVELOPMENT AND  
CAPITAL OUTLAY PLANNING**

BY- MASON, THOMAS R.

ASSOCIATION OF STATE INSTITUTIONS OF HIGHER EDUCATION IN COLORADO

PUBLISHED-APR64

476 PAGES

DESCRIPTORS- \*CAMPUS PLANNING, \*CAPITAL OUTLAY (FOR FIXED ASSETS), \*COLLEGE BUILDINGS, \*FACILITY GUIDELINES, \*FACILITY UTILIZATION RESEARCH, CONSTRUCTION COSTS, CRITERIA, EDUCATIONAL COMPLEXES, LAND USE

THE PURPOSE OF THIS MANUAL IS TO PROVIDE A BASIS FOR SYSTEMATICALLY PROGRAMMING THE REQUIREMENTS FOR PHYSICAL PLANT AND LAND TO ACCOMMODATE THE NEEDS OF AN INSTITUTION UNDER A SPECIFIED SET OF CIRCUMSTANCES. THE MANUAL IS ORGANIZED INTO SIX BROAD ELEMENTS--(1) ACTIVITY LEVELS OF ENROLLMENT, INSTRUCTIONAL WORKLOADS AND STAFF REQUIREMENTS, (2) PLANNING CRITERIA FOR UTILIZATION AND PHYSICAL FACTORS, (3) SPACE REQUIREMENTS NEEDED FOR ANY FUNCTIONAL CATEGORY OF THE INSTITUTION, (4) BUILDING OCCUPANCY PROGRAMS FOR THE DISTRIBUTION OF INSTITUTIONAL SPACE REQUIREMENTS AMONG PRESENT AND FUTURE BUILDINGS, (5) CAMPUS DEVELOPMENT AND LAND REQUIREMENTS FOR BUILDINGS, PARKING FACILITIES, AND ATHLETIC FACILITIES, AND (6) CAPITAL BUDGETING FOR MAINTENANCE AND ALTERATION OF PRESENT BUILDINGS, COSTS OF NEW CONSTRUCTION AND LAND ACQUISITION. WORKSHEETS ARE PROVIDED FOR A THOROUGH COLLECTION OF DATA AND ANALYSIS IN THE ABOVE NOTED AREAS. (HH)

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PROCEDURES FOR PHYSICAL FACILITY AND UTILIZATION STUDIES

BY- SCHWEHR, F. E. AND SCHWEHR, B. J.

WISCONSIN COORDINATING COMMITTEE FOR HIGHER EDUCATION, MADISON

PUBLISHED-OCT67

131 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*COMPUTER ORIENTED PROGRAMS, \*EDUCATIONAL SPECIFICATIONS, \*FACILITY UTILIZATION RESEARCH, \*METHODOLOGY, DATA ANALYSIS, DATA COLLECTION, DATA SHEETS, FACILITY INVENTORY, SPACE CLASSIFICATION, SPACE UTILIZATION

EFFECTIVELY PLANNING THE BUILDINGS NECESSARY FOR AN INSTITUTION OF HIGHER EDUCATION TO ACHIEVE ITS DESIRED GOALS REQUIRES SYSTEMATIC METHODOLOGY FOR GATHERING ACCURATE INFORMATION ON WHAT FACILITIES ARE AVAILABLE AND HOW THE FACILITIES ARE PRESENTLY BEING USED BY A GIVEN NUMBER OF STUDENTS IN A PARTICULAR COURSE OF STUDY. THIS MANUAL PRESENTS SUCH A SYSTEMATIC METHOD FOR CONDUCTING STUDIES ON PHYSICAL FACILITIES AND THEIR UTILIZATION AS RELATED TO PUBLIC INSTITUTIONS OF HIGHER EDUCATION IN WISCONSIN. THE PROCEDURES DESCRIBED WILL PROVIDE COMPARABLE DATA IN THE REPORTING OF EXISTING FACILITIES AND SERVE AS A BASIS FOR MAKING BIENNIAL PROJECTIONS OF FACILITY NEEDS. INCLUDED ARE THE FOLLOWING SECTIONS OF INFORMATION--(1) A SYSTEM OF SPACE CLASSIFICATION WHICH WOULD UNIFY DEFINITIONS OF ROOM TYPES, SUBJECT FIELD AND FUNCTION CLASSIFICATIONS FOR THE PURPOSE OF GIVING COMPARATIVE DATA FOR STATISTICAL STUDIES AT THE NATIONAL OR STATE LEVELS, (2) THE METHODS OF COLLECTING DATA FOR THE INVENTORY AND UTILIZATION STUDIES, (3) A FORMAT FOR PRESENTING THE DESIRED INFORMATION OUTPUT, AND (4) THE MANNER IN WHICH THE INVENTORY AND UTILIZATION INFORMATION WILL BE USED. THE SPECIFIC INFORMATION ON TYPES OF WORKSHEETS, FORMATS FOR THE COLLECTED DATA AND ANALYZED DATA ARE INCLUDED WITHIN THE TEXT. WHILE THE MANUAL IS BASED ON A COMPUTERIZED METHOD OF ANALYSIS, THE PROCEDURES MAY BE EASILY CONVERTED TO A MANUAL ANALYSIS WHICH MAY BE DESIRABLE FOR SMALLER INSTITUTIONS. (BH)

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HC \$6.65

FACILITIES INVENTORY AND SPACE UTILIZATION PROCEDURES MANUAL

BY- SEIFRIT, WILLIAM C.  
IDAHO STATE COMMISSION FOR HIGHER EDUCATION FACILITIES

PUBLISHED-AUG67

113 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*EDUCATIONAL FACILITIES,  
\*FACILITY INVENTORY, \*FACILITY UTILIZATION RESEARCH, \*HIGHER  
EDUCATION, CLASSIFICATION, CODIFICATION, DATA ANALYSIS, DATA  
COLLECTION, DATA SHEETS, EDUCATIONAL SPECIFICATIONS, MASTER  
PLANS, METHODS, PUBLIC EDUCATION, SPACE UTILIZATION

PROCEDURES NECESSARY FOR CONDUCTING FACILITY INVENTORIES AND  
SPACE UTILIZATION STUDIES FOR IDAHO'S HIGHER EDUCATION  
INSTITUTIONS ARE DIRECTED TOWARDS ESTABLISHING A COORDINATED,  
COMPREHENSIVE PLANNING SYSTEM. THE SPECIFIC OBJECTIVES ARE TO  
PROVIDE DATA NECESSARY TO PLAN INTELLIGENTLY FOR FUTURE  
FACILITIES CONSTRUCTION NEEDS, AND TO PROVIDE SOME OF THE DATA  
NECESSARY FOR STATE-WIDE COMPREHENSIVE PLANNING IN HIGHER  
EDUCATION. THIS MANUAL FOR FACILITY INVENTORY AND SPACE  
UTILIZATION RESEARCH IS CONSIDERED THE INITIAL STEP IN A  
COMPREHENSIVE MASTER PLAN. CONSISTING OF THREE SECTIONS, THE  
MANUAL OUTLINES PROCEDURES FOR BUILDING AND ROOM INVENTORIES AND  
UTILIZATION STUDIES WITH EACH SECTION DETAILING HOW THE STUDIES  
ARE TO BE IMPLEMENTED AND EVALUATED. THE APPENDICES CONTAIN  
ADDITIONAL INFORMATION REQUIRED TO COMPLETE THE STUDIES SUCH AS  
CLASSIFICATION SYSTEMS, DIRECTIONS FOR SURVEY TEAMS, AND ROOM AND  
BUILDING CODES. (BH)

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**GUIDELINES FOR PLANNING IN COLLEGES AND UNIVERSITIES, VOLUME  
FOUR-PHYSICAL PLANT PLANNING FACILITIES STUDIES****PUBLISHED-JUL68****125 PAGES****DESCRIPTORS- \*CAMPUS PLANNING, \*FACILITY INVENTORY, \*FACILITY  
UTILIZATION RESEARCH, \*HIGHER EDUCATION, \*SPACE UTILIZATION,  
COLLEGE HOUSING, FACILITY GUIDELINES, MASTER PLANS, SCHEDULING,  
SPACE CLASSIFICATION**

THE FOURTH OF A FIVE-VOLUME SERIES CONCERNED WITH HIGHER EDUCATIONAL PLANNING PROVIDES TECHNIQUES FOR THE ESTIMATION OF AN INSTITUTIONS FACILITY REQUIREMENTS. THE FACILITIES ARE DISCUSSED WITHIN THE FRAMEWORK OF TWO BROAD CATEGORIES--(1)ACADEMIC PROGRAM FACILITIES, AND (2)RESIDENTIAL HOUSING FACILITIES. THE ACADEMIC PROGRAM FACILITIES PROVIDE FOR CLASSROOMS, LABORATORIES, OFFICES, RECREATIONAL FACILITIES, AND OTHER ASSOCIATED SPACE AS REQUIRED TO CONDUCT THE PROGRAM OF A UNIVERSITY. THE RESIDENTIAL HOUSING FACILITIES PROVIDE FOR STUDENT HOUSING AND IN SOME CASES FACULTY AND STAFF HOUSING. PLANNING FOR THE ACADEMIC FACILITIES REQUIRES AN INVENTORY OF EXISTING FACILITIES INCLUDING A QUALITY ANALYSIS, FACILITY UTILIZATION RESEARCH, AND ESTIMATIONS OF SPACE REQUIREMENTS FOR BOTH TEACHING AND NON-TEACHING FACILITIES. THE ASPECTS OF AN AUTOMATED SYSTEM OF MASTER SCHEDULE CONSTRUCTION AND STUDENT SECTIONING ARE BRIEFLY PRESENTED. RESIDENTIAL FACILITIES PLANNING IS BASED ON A THOROUGH ANALYSIS OF THE STUDENT BODY BASED ON MARITAL STATUS, NUMBER OF DEPENDENTS, SEX, AND COLLEGE YEAR. NUMEROUS FORMULAS AND SPECIFIC NUMERICAL VALUES ARE SUPPLIED AS PART OF THE RECOMMENDED TECHNIQUES INVOLVED IN ESTIMATION. AN APPENDIX INCLUDES QUALITY ANALYSIS WORKSHEETS AND HOUSING GUIDELINES. (NI)//

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INSTRUCTIONS TO ACADEMIC AND PLANNING COMMITTEES WHO ARE CHARGED WITH THE RESPONSIBILITY OF PREPARING BUILDING PROGRAM REQUIREMENTS FOR CAPITAL IMPROVEMENT PROJECTS. REV. JULY 1968

BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH, DEPT OF PHYSICAL PLANT  
PUBLISHED-APR59

AVAILABLE FROM- BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH, DEPT OF PHYSICAL PLANT

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DESCRIPTORS- \*BUILDING DESIGN, \*CAMPUS PLANNING, \*CONSTRUCTION PROGRAMS, \*EDUCATIONAL SPECIFICATIONS, \*FACILITY GUIDELINES, COLLEGE BUILDINGS, COMMITTEES, FACILITY EXPANSION, FACILITY REQUIREMENTS, HIGHER EDUCATION, STANDARDS

AN OUTLINE TO GUIDE BRIGHAM YOUNG UNIVERSITY ACADEMIC COMMITTEES IN THE PROCESS OF COMPILING PROGRAM REQUIREMENTS FOR A PROPOSED BUILDING OR FACILITY, IN WHICH EACH AREA IS DEFINED AS TO APPROXIMATE SIZE, FUNCTION, FURNITURE, ETC. AN OUTLINE OF MATERIAL TO BE PREPARED BY THE BRIGHAM YOUNG UNIVERSITY IS INCLUDED TO PROVIDE COMMITTEES WITH AN OVER-ALL PICTURE OF A PROGRAM REQUIREMENT. TYPICAL PAGES FROM ACTUAL PROGRAM REQUIREMENTS ARE LIKEWISE INCLUDED. BUILDING STANDARDS ARE CONTAINED IN THE INSTRUCTIONS TO GUIDE THE COMMITTEES IN DETERMINING OFFICE SIZES, STUDENT SPACES, AND ILLUMINATION. (FS)

Availability:

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1969-71 COORDINATING COUNCIL FOR HIGHER EDUCATION BUILDING PRIORITIES. UNIVERSITY OF WISCONSIN AND WISCONSIN STATE UNIVERSITIES SYSTEMS

WISCONSIN COORDINATING COUNCIL FOR HIGHER EDUCATION, MADISON  
PUBLISHED-DEC63

121 PAGES

DESCRIPTORS- \*COLLEGE BUILDINGS, \*HIGHER EDUCATION, \*FACILITY GUIDELINES, \*FACILITY SPECIFICATIONS, \*INTERIOR SPACE, APPENDICES, BUDGETS, ENROLLMENT PROJECTIONS, RESEARCH METHODOLOGY, STATE SURVEYS, STATE UNIVERSITIES

AN INTEGRATED BUILDING PRIORITY LIST FOR TWO PUBLIC HIGHER EDUCATION SYSTEMS IN WISCONSIN PREPARED IN SATISFACTION OF REQUIREMENTS OF STATE STATUTES FOR THE BIENNIUM 1969-1971. APPENDICES PRESENT GUIDELINES, SPECIFICATIONS, AND METHODOLOGY FOR COMPUTING SPACE NEEDS. THERE ARE ALSO ENROLLMENT PROJECTIONS FOR THE TWO SYSTEMS. (FPO)//

Availability:

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**USES OF THE COMPUTER FOR FACILITY AND SPACE REQUIREMENTS**

A METHUDOLGY FOR DETERMINING FUTURE PHYSICAL FACILITIES  
REQUIREMENTS FOR INSTITUTIONS OF HIGHER EDUCATION

BY- YURKOVICH, JOHN V.  
WISCONSIN UNIVERSITY, MADISON

PUBLISHED- 66

194 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*COMPUTER ORIENTED PROGRAMS,  
\*FACILITY GUIDELINES, \*FACILITY INVENTORY, \*FACILITY UTILIZATION,  
CLASSIFICATION, DATA COLLECTION, ENROLLMENT PROJECTIONS,  
METHODOLOGY, SYSTEMS DEVELOPMENT

A COMPUTERIZED METHODOLOGY FOR THE PROJECTION OF PHYSICAL  
FACILITY NEEDS FOR INSTITUTIONS OF HIGHER EDUCATION WAS  
DEVELOPED IN A CASE STUDY AT THE UNIVERSITY OF WISCONSIN,  
MADISON. THE RESEARCH INCLUDED THE DEVELOPMENT, IMPLEMENTATION  
AND TESTING OF SYSTEMS FOR--(1) SPACE CLASSIFICATION, (2)  
PERPETUAL SPACE INVENTORY, (3) UTILIZATION OF INSTRUCTIONAL  
FACILITIES, (4) PROJECTION OF STUDENT ENROLLMENT, (5) PROJECTION  
OF NECESSARY STAFF, AND (6) INTEGRATION OF STRUCTURED INPUT DATA  
FOR PROJECTION OF PHYSICAL FACILITIES REQUIREMENTS. THE  
APPENDICES CONTAIN SAMPLE CODE LISTS, DATA COLLECTION FORMS,  
REPORT FORMATS, DETAILED GUIDES, AND FLOWCHARTS OF THE PROCEDURES  
AND THE COMPUTER PROGRAMS DEVELOPED FOR THE METHODOLOGY. (JP)

Availability:

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THE COMPUTER AS A MANAGEMENT TOOL - PHYSICAL FACILITIES INVENTORIES, UTILIZATION, AND PROJECTIONS (APRIL 25-27, 1966, 11TH ANNUAL MACHINE RECORDS CONFERENCE PROCEEDINGS)

BY- WITMER, DAVID R.  
TENNESSEE UNIVERSITY, KNOXVILLE

PUBLISHED-APK66

29 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*COMPUTERS, \*ENROLLMENT PROJECTIONS, \*FACILITY INVENTORY, \*SPACE UTILIZATION, CLASSROOMS, DECISION MAKING, GROWTH PATTERNS, MANAGEMENT, PHYSICAL FACILITIES, RESOURCE ALLOCATIONS

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A WHAT IF APPROACH TO ACADEMIC FACILITIES UTILIZATION,  
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PLANNING, FACILITIES, FINANCE, INSTITUTIONAL STUDIES (PIGEON LAKE  
FIELD STATION, DRUMMOND, WIS., JUNE 3-6, 1968)

BY- ANSFIELD, PAUL J

PUBLISHED-JUN68

IN- SPEECH PRESENTED AT STATEWIDE HIGHER EDUCATION CONFERENCE,  
ACADEMIC PLANNING, FACILITIES, FINANCE, INSTITUTIONAL STUDIES  
(PIGEON LAKE FIELD STATION, DRUMMOND, WIS., JUNE 3-6, 1968)

005 PAGES

DESCRIPTORS- \*FACILITY UTILIZATION RESEARCH, \*HIGHER EDUCATION,  
\*PROGRAMING, \*SCHEDULING, \*SPACE UTILIZATION, COLLEGE PLANNING,  
COMPUTER SCIENCE, INFORMATION PROCESSING, SCHOOL SCHEDULES,  
SIMULATION

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STUDYING AND DEVELOPING THE BEST UTILIZATION PATTERN FOR ANY  
COMPLEX OF ACADEMIC FACILITIES. THE APPROACH BASICALLY INVOLVES  
SIMULATING A VARIETY OF POSSIBLE CLASS SCHEDULES AND THEN  
DECISIVELY IMPLEMENTING THE ONE SCHEDULE THAT BEST APPROXIMATES  
THE EXISTING STANDARD FOR UTILIZATION AND THAT BEST SUPPORTS THE  
INSTITUTIONS ACADEMIC PROGRAM. USE OF COMPUTER SIMULATION  
METHODOLOGY ALLOWS FOR MANIPULATION OF A NUMBER OF FACTORS WITH  
RAPIDITY AND EASE, THEREFORE, ONE MAY MANEUVER DETAILED INVENTORY  
DATA IN ORDER TO FORECAST A VARIETY OF HEURISTIC ALTERNATIVE SETS  
OF ROOM ASSIGNMENTS FOR ACHIEVING OPTIMAL UTILIZATION OF EXISTING  
FACILITIES. (FS)

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HC \$0.35

## FACILITIES INVENTORY PROCEDURES

FACILITIES INVENTORY MANUAL FOR THE UNITS OF HIGHER EDUCATION IN MONTANA

BY- NELSON, EDWARD W.  
MONTANA COMMISSION FOR HIGHER EDUCATION FACILITIES, HELENA

PUBLISHED- 67

076 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*DATA COLLECTION, \*FACILITY INVENTORY, \*METHODOLOGY, CLASSIFICATION, COLLEGE BUILDINGS, DATA SHEETS, FACILITY EXPANSION, FINANCIAL SUPPORT

THIS MANUAL WAS PREPARED TO ASSIST AND GUIDE THOSE PERSONS RESPONSIBLE FOR MAINTAINING AN INVENTORY OF PHYSICAL FACILITIES AT THE PUBLIC AND PRIVATE UNITS OF HIGHER EDUCATION IN MONTANA. THE PHYSICAL FACILITIES INVENTORY DATA WILL BE USEFUL IN THE FOLLOWING AREAS--(1) TO PROVIDE A CONTINUING, ACCURATE RECORD FOR EACH BUILDING, (2) TO PROVIDE A BASIS FOR APPRAISAL OF EXISTING BUILDINGS AND TO DETERMINE FEASIBILITY OF RENOVATION, EXPANSION OR ABANDONMENT, (3) TO PROVIDE A BASE FROM WHICH TO DEVELOP A LONG RANGE BUILDING PROGRAM AND THE PLANNING OF SPECIFIC PROJECTS, (4) TO PROVIDE JUSTIFICATION FOR REQUESTS FOR CAPITAL OUTLAY APPROPRIATIONS OR FUND RAISING, AND (5) TO PROVIDE DATA FOR SCHEDULING, INFORMATION FOR PUBLICATIONS AND REPORTS, ADMINISTRATION USE, UTILIZATION STUDIES, AND COMPARISONS WITH SIMILAR INSTITUTIONS. GUIDELINES ARE GIVEN FOR DATA COLLECTION PROCEDURES, DATA SHEET FORMATS, BUILDING INVENTORIES, BUILDING NUMBER CODES, FUNDS SCHEDULES, AND ROOM INVENTORIES. APPENDICES ARE INCLUDED ON PROCEDURES FOR ROOM CLASSIFICATIONS AND TABLES OF ORGANIZATIONAL UNITS FOR HIGHER EDUCATIONAL INSTITUTIONS. (BH)

Order from EDRS as: ED 16372

MF \$0.50 HC \$3.90

## PROCEDURE FOR INVENTORY OF PHYSICAL FACILITIES AT UNIVERSITY OF ILLINOIS

ILLINOIS UNIVERSITY, URBANA, CENTRAL OFFICE ON THE USE OF SPACE

PUBLISHED-JUL66

125 PAGES

DESCRIPTORS- \*COMPUTER ORIENTED PROGRAMS, \*DATA COLLECTION, \*FACILITY INVENTORY, \*METHODOLOGY, CAMPUS PLANNING, CLASSROOMS, COLLEGE BUILDINGS, EDUCATIONAL SPECIFICATIONS, FACILITIES UTILIZATION RESEARCH

THE PURPOSE OF THIS MANUAL IS TO OUTLINE THE NECESSARY ITEMS REQUIRED IN AN INVENTORY OF PHYSICAL FACILITIES AND THE PROCEDURE USED AT THE UNIVERSITY OF ILLINOIS FOR GATHERING INFORMATION AND THE ASSEMBLING OF DATA THAT CAN BE USED IN PREPARING REPORTS ON PHYSICAL FACILITIES TO UNITS WITHIN THE UNIVERSITY, TO STATE AGENCIES AND TO FEDERAL AGENCIES. THE ELEMENTS OF THE PHYSICAL FACILITIES INVENTORY ARE CATEGORIZED--(1) DESIGNATION (ROOM, BUILDING), (2) ASSIGNMENT (UNIT OR DEPARTMENT RESPONSIBLE FOR SPACE), (3) AREA MEASUREMENT (GROSS SQUARE FEET, NET ASSIGNABLE SQUARE FEET, ETC.), (4) CLASSIFICATION-USAGE AND DESCRIPTION (OFFICE, CLASSROOM, STORAGE, ETC.), (5) FILE MAINTENANCE PROCEDURE AND DIVISION ASSIGNED TO FUNCTION. DATA WAS COLLECTED FOR PARTICULAR SPACES RELATIVE TO THESE ELEMENTS AND THE PARTY RESPONSIBILITY FOR THE SPACE (CENTRAL OFFICE, DEPARTMENT OF PHYSICS, ETC.). THE DATA WAS COMPILED AND ANALYSED BY COMPUTER. THE APPENDIXES INCLUDE A DETAILED BREAKDOWN OF PARTICULAR SPACES WITH COMPUTER CODED NUMBERS AND A SAMPLE OF THE COMPUTER OUTPUT INVENTORY. (HH)

## Availability:

Central Office on the Use of Space  
University of Illinois  
Urbana, Illinois 61801

**SURVEY METHOD FOR HIGHER EDUCATION FACILITIES IN TEXAS COLLEGES AND UNIVERSITIES**

**BY- COLVERT, C. C.  
TEXAS UNIVERSITY, AUSTIN, OFFICE OF EDUCATIONAL FACILITIES  
RESEARCH**

**PUBLISHED-MAR67**

**124 PAGES**

**DESCRIPTORS- \*COLLEGE PLANNING, \*FACILITY INVENTORY, \*FACILITY UTILIZATION RESEARCH, \*SCHOOL SURVEYS, \*STANDARDS, CLASSIFICATION, CLASSROOMS, COLLEGE BUILDINGS, COLLEGE HOUSING, RECORDS (FORMS), SCHOOL SPACE, SPACE UTILIZATION**

**PROCEDURES HAVE BEEN DEVELOPED FOR COMPLETING SURVEY FORMS TO COLLECT DATA ESSENTIAL IN INVENTORING SPACE AND MEASURING THE UTILIZATION OF DIFFERENT TYPES OF SPACE AMONG INSTITUTIONS OF HIGHER EDUCATION. FORMS AND SURVEY METHODS ARE INCLUDED FOR (1) BUILDING ANALYSIS, (2) ROOM ANALYSIS, AND (4) SPACE UTILIZATION STUDY. METHODS DISCUSSED ARE SCOPE OF INFORMATION, DATA COMPILATION AND DATA RECORDING. APPENDIXES INCLUDE CODING SYSTEMS, DETERMINATION OF SPACE ADEQUACY AND UPDATING PROCEDURES. (MM)**

Order from EDRS as: ED 21404

MF \$0.50 HC \$6.30



HIGHER EDUCATION FACILITIES INVENTORY MANUAL

WASHINGTON HIGHER EDUCATION FACILITIES COMMISSION, OLYMPIA

PUBLISHED-JUL67

096 PAGES

DESCRIPTORS- \*COMPUTER ORIENTED PROGRAMS, \*DATA COLLECTION, \*FACILITY INVENTORY, \*METHODOLOGY, \*SPACE UTILIZATION, CLASSROOMS, COLLEGE BUILDINGS, DATA PROCESSING, EDUCATIONAL SPECIFICATIONS, FACILITY UTILIZATION RESEARCH

THIS MANUAL SETS FORTH PROCEDURES FOR COMPLETING SURVEY FORMS TO COLLECT DATA NECESSARY FOR AN INVENTORY OF SPACE THAT CONFORMS TO THE REQUIREMENTS OF EACH INSTITUTION. THE AREAS DISCUSSED ARE GENERAL SUGGESTIONS ON HOW TO MAKE A SURVEY, BUILDING INVENTORY PROCEDURES, ROOM INVENTORY PROCEDURES, AND UPDATE PROCEDURES. THE APPENDICES DISCUSS ROOM TYPES, ORGANIZATIONAL UNIT, SUBJECT FIELD, ROOM FUNCTION, AND BUILDING AREAS. EXAMPLES OF DATA COLLECTING SHEETS ARE ALSO INCLUDED. (HH)

Order from EDRS as: ED 17156

MF \$0.50

HC \$4.90

PHYSICAL FACILITIES INVENTORY BY BUILDING AND ROOM. INSTRUCTION MANUAL. 2ND ED.

PENNSYLVANIA STATE DEPARTMENT OF PUBLIC INSTRUCTION, HARRISBURG  
PUBLISHED-JAN68

125 PAGES

DESCRIPTORS- \*EDUCATIONAL SPECIFICATIONS, \*FACILITY INVENTORY, \*HIGHER EDUCATION, \*MANUALS, \*METHODS, ADMINISTRATIVE PERSONNEL, BUILDINGS, CLASSIFICATION, CLASSROOMS, CODIFICATION, COLLEGE PLANNING, DATA ANALYSIS, DATA COLLECTION, DATA SHEETS, MASTER PLANS, PUBLIC FACILITIES, STANDARDS

TO PROVIDE A BASIS ON WHICH TO DETERMINE SPACE REQUIRED IN THE PUBLIC HIGHER EDUCATION INSTITUTIONS OF PENNSYLVANIA, THE STATE COMMISSION ON ACADEMIC FACILITIES DEVELOPED AN INSTRUCTION MANUAL FOR A METHOD OF INVENTORING PHYSICAL FACILITIES BY BUILDING AND ROOM. THE BUILDING INVENTORY AND THE ROOM INVENTORY ARE PRESENTED AS SEPARATE SECTIONS, EACH SECTION PROVIDING THE NECESSARY PROCEDURES TO BE FOLLOWED AND THE DATA FORMS TO BE USED. GENERAL INFORMATION IS PROVIDED ON THE SCOPE OF THE INVENTORY, THE BUILDING IDENTIFICATION CODING, AN INVENTORY OF RESIDENTIAL FACILITIES AND THE STAFF REQUIRED FOR AN INVENTORY STUDY. APPENDICES PROVIDE NECESSARY DATA FOR COMPLETING THE FORMS AND INCLUDE SUCH ITEMS AS BUILDING CATEGORIES AND CODES, CONSTRUCTION CODES, BUILDING CONDITION CODES, DETERMINING THE GROSS BUILDING AREA, OWNERSHIP CODES, ROOM FUNCTION CODES AND DEFINITIONS, ROOM TYPE CODES, AND OTHER INFORMATION RELATED TO BUILDING AND ROOM CLASSIFICATIONS. (BH)

Order from EDRS as: ED 22329

MF \$0.50

HC \$6.35

COLLEGE AND UNIVERSITY FACILITIES SURVEY PART 3 INVENTORY OF  
COLLEGE AND UNIVERSITY PHYSICAL FACILITIES, FINAL REPORT

BY- HIGGINS, E. EUGENE AND FULLER, MARY B.  
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, WASHINGTON, D.C.

PUBLISHED- 65

557 PAGES

DESCRIPTORS- \*COLLEGE BUILDINGS, \*FACILITY INVENTORY, \*FACILITY  
UTILIZATION RESEARCH, \*HIGHER EDUCATION, \*SPACE UTILIZATION,  
CLASSROOMS, COLLEGE HOUSING, COLLEGE LIBRARIES, INVESTMENT,  
LABORATORIES

THIS REPORT IS THE THIRD IN A FIVE PART SERIES OF STUDIES  
COMPRISING THE COLLEGE AND UNIVERSITY FACILITIES SURVEY. THIS  
PARTICULAR PART IS CONCERNED WITH THE ESTABLISHMENT OF A  
PERPETUAL INVENTORY OF HIGHER EDUCATION BUILDINGS AND COVERS  
EXISTING FACILITIES TO THE END OF 1957. DATA PRESENTED  
INCLUDES--DATES OF INITIAL OCCUPANCY AND REHABILITATION, PLANT  
FUND INVESTMENT, TYPE OF CONSTRUCTION, CONDITION, ESTIMATED  
VALUE, ASSIGNABLE AREA AND CAPACITY OF SPACES BY FUNCTION, AND  
GROSS AREA. SPECIAL ATTENTION IS GIVEN TO THOSE FACILITIES WHOSE  
TYPE OF CONSTRUCTION, DATE OF INITIAL OCCUPANCY, AND CONDITION  
SUGGEST THAT THEY ARE PROBABLY SURPLUS GOVERNMENT BUILDINGS,  
ACQUIRED SUBSEQUENT TO WORLD WAR II. FACILITIES THAT ARE SHARED  
WITH INSTITUTIONS OF LESS THAN COLLEGE GRADE ARE ALSO SINGLED OUT  
FOR SPECIAL ANALYSES. (NI)

Availability:

Superintendent of Documents  
U. S. Government Printing Office  
Washington, D. C. 20402 \$3.50

DATA COLLECTION, INPUT AND OUTPUT, FACILITY AREA PROCEEDINGS OF STATEWIDE HIGHER EDUCATION CONFERENCE, ACADEMIC PLANNING, FACILITIES, FINANCE, INSTITUTIONAL STUDIES (PIGEON LAKE FIELD STATION, DRUMMOND, WIS., JUNE 3-6, 1968)

BY- SPECHT, R.E.

PUBLISHED-JUN68

IN- SPEECH PRESENTED TO STATEWIDE HIGHER EDUCATION CONFERENCE, ACADEMIC PLANNING, FACILITIES, FINANCE, INSTITUTIONAL STUDIES (PIGEON LAKE FIELD STATION, DRUMMOND, WIS., JUNE 3-6, 1968)

005 PAGES

DESCRIPTORS- \*CAMPUS PLANNING, \*FACILITY INVENTORY, \*FACILITY REQUIREMENTS, \*HIGHER EDUCATION, \*MASTER PLANS, COLLEGE PLANNING, EDUCATIONAL ENVIRONMENT, FACILITY EXPANSION, FACILITY UTILIZATION RESEARCH, SPACE UTILIZATION

CONCERNED WITH THE FACILITY PLANNERS ROLE IN PREPARING THE IMMEDIATE PHYSICAL ENVIRONMENT IN THE BEST WAY POSSIBLE SO THAT THE BEST LEARNING CAN TAKE PLACE WHEREVER THE STUDENT MAY BE. IN DISCUSSING MASTER PLANNING, EMPHASIS IS PLACED UPON ESTABLISHMENT OF A SOUND BASIC EDUCATIONAL PHILOSOPHY. COMMENTS ARE ALSO DIRECTED TO DATA COLLECTING ACTIVITIES INVOLVED IN THE DEVELOPMENT OF THE MASTER PLAN. TRANSLATION OF THE EDUCATIONAL PROGRAM OF THE INSTITUTION INTO PHYSICAL FACILITY REQUIREMENTS IS CITED AS AN IMPORTANT ASPECT OF INDIVIDUAL BUILDING PLANNING. TAKING INVENTORY OF PRESENT FACILITIES, ANALYZING UTILIZATION, AND PROJECTING FACILITY NEEDS ARE CONSIDERED INTEGRAL ACTIVITIES IN THIS PROCESS. (FS)

Availability:

Wisconsin Coordinating Council for  
Higher Education  
732 North Midvale Blvd.  
Madison, Wisconsin 53705

## RESEARCH SPACE REQUIREMENTS

UNIVERSITY RESEARCH BUILDINGS FOR SHORT-TERM GRANT PROGRAMS

UNIVERSITY FACILITIES RESEARCH CENTER, MADISON, WISCONSIN

PUBLISHED- 61

031 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*CONSTRUCTION COSTS, \*GUIDELINES, \*RESEARCH AND DEVELOPMENT CENTERS, \*SCHOOL LOCATION, COLLEGE BUILDINGS, CONSTRUCTION NEEDS, PROGRAM ADMINISTRATION

GUIDELINES WERE ESTABLISHED TO ASSIST IN THE PLANNING AND DEVELOPMENT OF ADEQUATE FACILITIES FOR SHORT-TERM RESEARCH GRANT PROGRAMS. FUNCTIONAL CRITERIA WERE DEVELOPED FROM THE ANALYSES OF COST STUDIES AND A SURGE SPACE STUDY AT THE UNIVERSITY OF ILLINOIS. ALTERNATIVES WERE SUGGESTED FOR THE PROVISION, PHYSICAL CHARACTERISTICS, SITE LOCATION, BUILDING TYPE AND ADMINISTRATIVE CONTROL OF THE FACILITIES. IT WAS RECOMMENDED THAT FLEXIBILITY, ECONOMY AND EXPANDIBILITY BE INTEGRATED WITH OVERALL CAMPUS PLANNING IN THE SELECTION OF AN APPROPRIATE SOLUTION. THE APPENDIX INCLUDES SEVERAL ALTERNATIVE FLOOR PLANS AND A COST BREAKDOWN FOR THE SURGE UNIT AT THE UNIVERSITY OF ILLINOIS. (JP)

Order from EDRS as: ED 13530

MF \$0.25 HC \$1.65

DETERMINING RESEARCH SPACE NEEDS AND ESTABLISHING GUIDELINES

WISCONSIN COORDINATING COMMITTEE FOR HIGHER EDUCATION, MADISON

PUBLISHED-MAR66

REPORT/SERIES NO.- CCHE-20

003 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*GRADUATE STUDENTS, \*HIGHER EDUCATION, \*RESEARCH NEEDS, \*SPACE UTILIZATION, EQUIPMENT STORAGE, GRADUATE STUDY, INTERIOR SPACE, FACILITY GUIDELINES, STUDENT NEEDS

THE PROJECTION OF SPACE NEEDS FOR RESEARCH IS A FUNCTION OF (1) GRADUATE STUDENT ENROLLMENT, (2) THE PARTICULAR ACADEMIC DISCIPLINE, AND (3) THE LEVEL OF RESEARCH ACTIVITY. IT IS PROPOSED THAT THE FULL TIME EQUIVALENT GRADUATE STUDENT POPULATION BE USED AS BEING REPRESENTATIVE OF THE OVERALL REQUIREMENTS. THERE ARE CERTAIN NOTABLE EXCEPTIONS, THE FIRST BEING PUBLIC SERVICE ORIENTED RESEARCH PROGRAMS WHICH DO NOT USUALLY ATTRACT OR SUPPORT GRADUATE STUDENTS. THE OTHER EXCEPTION IS IN DISCIPLINES WHICH REQUIRE SPECIALIZED EQUIPMENT TO BE HOUSED, SUCH AS A BIOTRON COMPLEX OR NUCLEAR ACCELERATOR. THESE EXCEPTIONS MUST BE CONSIDERED SEPARATELY. A LATER PAPER CCHE-60 UNDER EF001732 MAY BE REFERRED TO FOR THE PROJECTION PROCEDURE ITSELF. (NI)

Availability:

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## RESEARCH SPACE GUIDELINES

WISCONSIN COORDINATING COMMITTEE FOR HIGHER EDUCATION, MADISON

PUBLISHED-JUN66

REPORT/SERIES NO.- CCHE-60

006 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*FACILITY GUIDELINES, \*HIGHER EDUCATION, \*RESEARCH NEEDS, \*SPACE UTILIZATION, COLLEGE FACULTY, EQUIPMENT STORAGE, GRADUATE STUDENTS, RESEARCHERS

THE AMOUNT OF RESEARCH SPACE REQUIRED IN HIGHER EDUCATION IS DEPENDENT UPON TWO FACTORS. THE FIRST IS THE LEVEL OF ACTIVITY DEVOTED TO RESEARCH BY THOSE WHO PARTICIPATE. THE SECOND IS THE TYPE OF ACADEMIC PROGRAM INVOLVED I.E. HUMANITIES, SOCIAL SCIENCES, ENGINEERING, ETC. KNOWLEDGE OF THE NUMBERS OF FACULTY AS WELL AS THE NUMBER OF GRADUATE STUDENTS IS VITAL TO ACHIEVE MEANINGFUL SPACE PROJECTIONS. THE GUIDELINES SHOULD ALLOW SPACE BASED ON ESTABLISHED EDUCATIONAL EXPERIENCE WITHIN THE SEVERAL ACADEMIC DISCIPLINES. THERE ARE CERTAIN NOTABLE EXCEPTIONS. THESE ARE PUBLIC SERVICE ORIENTED PROGRAMS WHICH NORMALLY HAVE FEW ASSOCIATED GRADUATE STUDENTS AND PROGRAMS WHICH REQUIRE THE HOUSING OF SPECIALIZED EQUIPMENT SUCH AS A BIOTRON COMPLEX, OR POLLUTION RESEARCH FACILITY. THE PROCEDURE CALLS FOR THE WEIGHING OF PERSONNEL BASED UPON TIME SPENT IN RESEARCH AND THE WEIGHTING OF ACADEMIC DISCIPLINES BASED UPON PRIOR KNOWLEDGE OF SPACE NEEDS. THE TWO FACTORS ARE MULTIPLIED TO ARRIVE AT THE NUMBER OF NET ASSIGNABLE SQUARE FEET OF SPACE. (NI)

## Availability:

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Madison, Wisconsin 53705



RESEAKCH SPACE FACTORS USED FOR PROJECTING THE 1969-71 NEEDS IN WISCONSIN PUBLIC HIGHER EDUCATION FACILITIES

WISCONSIN COORDINATING COUNCIL FOR HIGHER EDUCATION, MADISON

PUBLISHED-JUL68

006 PAGES

DESCRIPTORS- \*FACILITY GUIDELINES, \*FACILITY REQUIREMENTS, \*FACILITY UTILIZATION RESEARCH, \*RESEARCH NEEDS, \*SPACE UTILIZATION, COLLEGE PLANNING, EDUCATIONAL RESEARCH, HIGHER EDUCATION, INSTITUTIONAL RESEARCH, SCIENTIFIC RESEARCH

THE DEMAND UNIT APPROACH TO DETERMINING RESEARCH SPACE NEEDS IS PROPOSED AS A METHOD FOR PROJECTION OF SPACE REQUIRED FOR RESEARCH IN WISCONSIN PUBLIC HIGHER EDUCATION FACILITIES. DISCUSSION IS DIRECTED TO THE TWO FACTORS UTILIZED IN IMPLEMENTATION OF THIS APPROACH, NAMELY, (1)THE VARYING LEVEL OF ACTIVITY DEVOTED TO RESEARCH BY PARTICIPATING PERSONNEL, AND (2)THE VARYING AMOUNTS OF SPACE REQUIRED FOR DIFFERENT TYPES OF ACADEMIC PROGRAMS. IT IS NOTED THAT THIS APPROACH CAN SERVE TO DETERMINE THE SPACE NEEDED FOR MOST RESEARCH ACTIVITIES, HOWEVER, THERE ARE CERTAIN SPECIAL RESEARCH PRUGRAMS WHICH MUST BE TREATED SEPARATELY ON A CASE-BY-CASE BASIS. (FS)//

Order from EDRS as: ED 28623

MF \$0.25 HC \$0.40

CASE DESCRIPTIONS OF FACILITY AND SPACE UTILIZATION STUDIES

PHYSICAL FACILITIES FOR HIGHER EDUCATION IN OKLAHOMA

BY- WALKER, CHARLES R. AND COFFELT, JOHN J.  
OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION, OKLAHOMA CITY

PUBLISHED- 64

IN- SELF-STUDY OF HIGHER EDUCATION IN OKLAHOMA - REPORT 5

137 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*EDUCATIONAL NEEDS, \*FACILITY INVENTORY, \*FACILITY UTILIZATION, \*FACILITY GUIDELINES, COLLEGE BUILDINGS, EDUCATIONAL FACILITIES, EDUCATIONAL SPECIFICATIONS, STATE AID

THE REPORT IS A SELF-STUDY OF THE PHYSICAL FACILITIES OF 21 INSTITUTIONS OF HIGHER EDUCATION IN OKLAHOMA. IT INVOLVED THE STUDY OF SUCH TOPICS AS--(1) THE INVENTORY AND EVALUATION OF EXISTING LAND AND BUILDINGS ACCORDING TO CURRENT AND REPLACEMENT VALUE, AGE, QUALITY AND FUTURE USE, (2) THE INVENTORY OF ASSIGNABLE SPACE BY SQUARE FOOTAGE, DISTRIBUTION AND NUMBER OF ROOMS WITHIN ROOM TYPE AND FUNCTION, (3) THE UTILIZATION OF CLASSROOMS AND LABORATORIES BY DAY OF WEEK, HOUR OF DAY, ROOM CAPACITY AND ASSIGNMENT, AND (4) THE PROJECTION OF SPACE NEEDS AND ESTIMATED PHYSICAL PLANT COSTS. DATA WERE COLLECTED BY THE PARTICIPATING INSTITUTIONS AND EVALUATIONS WERE MADE BY A VISITATION TEAM OF RESEARCH STAFF. FORMS USED IN THE STUDY ARE INCLUDED. A NUMBER OF SPECIFIC RECOMMENDATIONS WERE PRESENTED, THE THRUST OF WHICH WAS THAT THE STATE OFFICIALS AND COLLEGE OFFICIALS SHOULD COOPERATE IN THE MAINTENANCE AND IMPROVEMENT OF PRESENT FACILITIES AND LONG-RANGE PLANNING OF NEEDED EDUCATIONAL FACILITIES. (HH)

Order from EDRS as: ED 13526

MF \$0.75 HC \$6.95

PHYSICAL PLANT INVENTORY AND UTILIZATION STUDY

EASTERN WASHINGTON STATE COLLEGE, CHENEY

PUBLISHED- 63

079 PAGES

DESCRIPTORS- \*SPACE CLASSIFICATION, \*COLLEGE PLANNING, \*FACILITY INVENTORY, \*STUDENT ENROLLMENT, \*SPACE UTILIZATION, EDUCATIONAL SPECIFICATIONS, SPATIAL RELATIONSHIP

THE PURPOSE OF THE REPORT IS TO INCREASE THE EFFICIENCY OF USE OF EXISTING SPACE AND MAKE ROOM FOR MORE STUDENTS AT EASTERN WASHINGTON STATE COLLEGE. THE METHOD AND NORMS USED ARE THOSE OUTLINED BY THE RUSSELL-DOI AND EFL STUDY OF 60 COLLEGES. RECOMMENDATIONS INCLUDE SUGGESTIONS AS TO REVISING AND UPDATING OF THE TIME SCHEDULE AND CURRICULUM. (HH)

Availability:

Eastern Washington State College  
Cheney, Washington 99004

EFFICIENT OPERATION AND ECONOMICAL EXPANSION OF UNDERGRADUATE  
TEACHING FACILITIES OF URBAN UNIVERSITIES

BY- WOOD, FREDERIC C.  
DREXEL INSTITUTE OF TECHNOLOGY, PHILADELPHIA, PENNSYLVANIA

PUBLISHED- 50

026 PAGES

DESCRIPTORS- \*CASE STUDIES (EDUCATION) , \*COLLEGE PLANNING,  
\*FACILITY REQUIREMENTS, \*FEASIBILITY STUDIES, \*URBAN  
UNIVERSITIES, BUILDING CONVERSION, BUILDING DESIGN, CONSTRUCTION  
NEEDS, FACILITY EXPANSION, FACILITY UTILIZATION RESEARCH , MASTER  
PLANS, PARKING AREAS

INFORMATION CONCERNING EFFICIENT PLANT OPERATION AND  
ECONOMIC FACILITY EXPANSION TO BEST ACCOMMODATE INCREASED STUDENT  
ENROLLMENTS AT URBAN COLLEGES AND UNIVERSITIES WAS GENERATED FROM  
A CASE STUDY OF THE DREXEL INSTITUTE OF TECHNOLOGY. GENERAL AREAS  
INVESTIGATED WERE--(1) SPACE REQUIREMENTS WHICH WILL MEET  
ANTICIPATED INCREASES IN ENROLLMENT, (2) SPACE ARRANGEMENT FOR  
INTENSIVE AND EFFICIENT UTILIZATION OF THE PHYSICAL PLANT, (3)  
USE OF MULTI-STORY BUILDINGS TO COMPENSATE FOR HIGH LAND COSTS,  
(4) ECONOMICS OF BUILDING UNITS WHICH CAN LATER BE EXPANDED  
VERTICALLY, (5) POSSIBLE CONVERSION OF ADJACENT BUILDINGS, (6)  
PHASING OF FINANCING AND CONSTRUCTION WITH REGARD TO INFLATION,  
AND (7) PROVISION FOR SATISFACTORY PARKING. A METHODOLOGY FOR  
DETERMINING FUTURE SPACE REQUIREMENTS WAS DEVELOPED AND USED IN  
CONJUNCTION WITH SEVERAL PLANNING AND FEASIBILITY STUDIES TO  
DEVELOP SPECIFIC RECOMMENDATIONS FOR DREXEL INSTITUTE. INCLUDED  
ARE TABLES ON ALTERNATIVES FOR NEW BUILDING DEVELOPMENT, AND AN  
EXHIBIT OF THE FORMS AND INSTRUCTIONS FOR THE FACILITIES  
REQUIREMENTS METHODOLOGY. (BH)

Order from EDRS as: ED 14844

MF \$0.25

HC \$1.40

ESTIMATED SPACE REQUIREMENTS FOR FT. WAYNE FACILITY TO BE JOINTLY OCCUPIED BY INDIANA UNIVERSITY AND PURDUE UNIVERSITY

BY- COLLINS, RALPH L. AND LAWSHE, C. H.  
JOINT PLANNING COMMITTEE OF INDIANA UNIVERSITY AND PURDUE UNIVERSITY, BLOOMINGTON, INDIANA

PUBLISHED-JUN60

037 PAGES

DESCRIPTORS- \*CLASSIFICATION, \*COLLEGE PLANNING, \*EDUCATIONAL SPECIFICATIONS

THIS REPORT PRESENTS THE RESULTS OF THE JOINT PLANNING COMMITTEE OF INDIANA UNIVERSITY AND PURDUE UNIVERSITY IN TERMS OF THE AMOUNT AND TYPE OF SPACE THAT WILL BE REQUIRED BY 1965 AND BY 1972 IN A FACILITY TO BE JOINTLY OCCUPIED BY THE TWO UNIVERSITIES AT FORT WAYNE. IN GENERAL, A SIX-STEP PROCEDURE WAS FOLLOWED--(1) EACH INSTITUTION, INDEPENDENTLY PROJECTED ITS OWN EDUCATIONAL PROGRAM BASED UPON SUCH ASSUMPTIONS AS WERE CONSISTENT WITH ITS PURPOSES AND ITS METHODS OF OPERATION. (2) THIRTY-SIX DIFFERENT SPACE CATEGORIES WERE ESTABLISHED AND AGREEMENTS WERE REACHED AS TO UNIT SIZE, IN SQUARE FEET, FOR EACH CATEGORY. (3) EACH INSTITUTION THEN TRANSLATED ITS REQUIREMENTS INTO 'PART' UNITS. (4) THESE 'PART' UNITS FOR THE TWO INSTITUTIONS WERE THEN ADDED FOR EACH SPACE CATEGORY IN ORDER TO ARRIVE AT COMBINED REQUIREMENTS. (5) EACH INSTITUTION DEVELOPED ITS OWN REQUIREMENTS FOR NON-INSTRUCTIONAL SPACE, INCLUDING SUCH ITEMS AS ADMINISTRATIVE SPACE AND INSTRUCTORS' OFFICES. (6) MEMBERS OF THE COMMITTEE DEVELOPED THE REQUIREMENTS FOR JOINT FACILITY SPACE, INCLUDING LIBRARY, AND FOOD FACILITY. THE RESULTS OF THE FINDINGS AND PROJECTIONS ARE SUMMARIZED IN THE TABLES AND APPENDIX. (8H)

Order from EDRS as: ED 16368

MF \$0.25 HC \$1.95

A STUDY OF THE UTILIZATION OF INSTRUCTIONAL SPACE AT VALPARAISO UNIVERSITY. FALL SEMESTER 1957-1958

BY- THUNE, PAUL E.  
VALPARAISO UNIVERSITY, VALPARAISO, INDIANA

PUBLISHED- 59

685 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*COMPARATIVE STATISTICS,  
\*FACILITY INVENTORY, \*FACILITY UTILIZATION RESEARCH, \*SPACE  
UTILIZATION, CLASSROOM SPACE, CLASS SIZE, HIGHER EDUCATION,  
INSTITUTIONAL RESEARCH, TABLES(DATA)

A COLLECTION OF DATA ALONG WITH SOME COMMENTARY CONCERNING  
THE UTILIZATION OF INSTRUCTIONAL SPACE AT VALPARAISO UNIVERSITY.  
THIRTY-EIGHT TABLES SUMMARIZE DATA IN ACCORDANCE WITH SUCH  
FACTORS AS--TYPE OF ROOM, DAYS AND/OR HOURS USED, STUDENT  
CAPACITY, FLOOR SPACE, AND COMPARISONS WITH OTHER INSTITUTIONS.  
(NI)

Availability:

Valparaiso University  
Valparaiso, Indiana

EDUCATIONAL FACILITY NEEDS (THE NEXT TEN YEARS)

MARYLAND UNIVERSITY, COLLEGE PARK

PUBLISHED-JUL62

399 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*EDUCATIONAL OBJECTIVES, \*ENROLLMENT PROJECTIONS, \*FACILITY UTILIZATION RESEARCH, \*MASTER PLANS, FACILITY INVENTORY, LAND USE, LIBRARIES, STUDENT PERSONNEL SERVICES, FACILITY GUIDELINES

THE REPORT DESCRIBES THE PLANNING FOR THE UNIVERSITY OF MARYLAND FACILITIES AT THE COLLEGE PARK AND BALTIMORE CAMPUSES. DATA WAS FROM THE FACULTY OF EACH DEPARTMENT. THIS COMPILATION WAS BASED ON SMALLER STUDIES OF FACILITIES, USE OF SPACE, ENROLLMENT FACTOR, PROJECTION GUIDES, CLASSROOMS, AUXILIARY FACILITIES, AND DEPARTMENT NEEDS. AREAS DESCRIBED ARE (1) PRESENT LAND AND FACILITIES WITH TABLES, CAMPUS LAYOUT DIAGRAM, ENROLLMENTS, AND PROJECTIONS, (2) UNDERGRADUATE, EVENING SCHOOL, PROFESSIONAL, GRADUATE, AND SUMMER PROGRAMS, (3) OBJECTIVES, PROGRAMS, FACILITIES, FUTURE NEEDS FOR EACH COLLEGE ON THE COLLEGE PARK CAMPUS AND FOR EACH COLLEGE ON THE BALTIMORE CAMPUS. THE APPENDIX PROVIDES TABLES FOR THE SPACE USE BY BUILDINGS, INVENTORY OF EXISTING FACILITIES, AND PLOT PLANS OF UNIVERSITY PROPERTY FOR BOTH CAMPUSES. (HH)

Availability:

University of Maryland  
College Park, Maryland 20742



REPORT TO THE UNIVERSITY OF ILLINOIS

SUA INCORPORATED, NEW YORK, N. Y.

PUBLISHED- 59

086 PAGES

DESCRIPTORS- \*COLLEGE PLANNING, \*FACILITY REQUIREMENTS, \*FACILITY UTILIZATION RESEARCH, \*HIGHER EDUCATION, \*METHODOLOGY, BUILDING DESIGN, FACILITY INVENTORY, OFFICES (FACILITIES), SPACE UTILIZATION, TRAFFIC CIRCULATION

FACILITY REQUIREMENTS FOR THE UNIVERSITY OF ILLINOIS, CHICAGO UNDERGRADUATE DIVISION, WERE ANALYZED TO ESTIMATE SPACE REQUIREMENTS OF THE VARIOUS DEPARTMENTS OF THE DIVISION. STANDARDS USED WERE ESTABLISHED BY ASSIGNMENT OF AREAS TO ACTUAL EQUIPMENT, FURNITURE, ETC., FOR SPECIFIC USAGE OF THE SPACE UNDER CONSIDERATION RATHER THAN ASSIGNMENT OF SPACE BEING BASED ON A MULTIPLIER OF A SET SQUARE FOOTAGE PER STUDENT TIMES THE NUMBER OF STUDENTS ASSIGNED TO THE AREA AT ANY ONE TIME. PROPER FUNCTIONING OF A SPACE WAS COMPARED WITH THE TYPE OF EQUIPMENT USED AND THE CIRCULATION SPACE NEEDED. RESULTANT ROOM SIZE WAS DIVIDED BY THE REQUIRED NUMBER OF STUDENTS TO ARRIVE AT AN AVERAGE STUDENT STATION SIZE. USING THIS METHOD, SPACE REQUIRED FOR CLASSROOMS, FACULTY, ADMINISTRATION, LABORATORIES AND SERVICE FUNCTIONS WERE ESTIMATED FOR EACH CONSTRUCTION PHASE OF THE EXPANSION PROGRAM. (BH)

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UTILIZATION OF INSTRUCTIONAL SPACE AT VIRGINIAS COLLEGES, PRIVATE AND STATE-CONTROLLED COLLEGES AND UNIVERSITIES-1967-68

BY- PHILLIPS, JAMES C AND FINLEY, DONALD J AND ADKINS, CHASE M

PUBLISHED-JUL68

AVAILABLE FROM- VIRGINIA STATE COUNCIL OF HIGHER EDUCATION,  
RICHMUND

022 PAGES

DESCRIPTORS- \*COLLEGE BUILDINGS, \*FACILITY UTILIZATION RESEARCH,  
\*PRIVATE COLLEGES, \*STATE COLLEGES, \*SPACE UTILIZATION,  
CLASSROOM, INSTRUCTION, LABORATORY, PHYSICAL EDUCATION, RESEARCH  
DESIGN

A REPORT ON A STATE-WIDE STUDY OF THE UTILIZATION OF CLASSROOM, LABORATORY, AND PHYSICAL EDUCATION INSTRUCTIONAL SPACE IN PRIVATE AND STATE-CONTROLLED HIGHER EDUCATIONAL FACILITIES IN VIRGINIA. THE REPORT IS QUANTITATIVELY BASED AND INCLUDES A DISCUSSION OF ITS SCOPE AND CRITERIA FOR VALIDITY, SUMMARY STATEMENTS OF FINDINGS AS WELL AS DEFINITIONS OF TERMS EMPLOYED, AND AN APPENDIX WHICH PRESENTS THE FORMS USED TO GATHER DATA. A LIST OF COOPERATING INSTITUTIONS IS INCLUDED. (FPO)

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SPACE UTILIZATION STUDY AND FUTURE CAPITAL OUTLAY NEEDS FOR PUBLIC INSTITUTIONS OF HIGHER EDUCATION IN MARYLAND (A REPORT TO THE MARYLAND STATE PLANNING DEPARTMENT)

PUBLISHED-SEP64

092 PAGES

DESCRIPTORS- \*CAPITAL OUTLAY (FOR FIXED ASSETS), \*FACILITY REQUIREMENTS, \*FACILITY UTILIZATION RESEARCH, \*HIGHER EDUCATION, \*SPACE UTILIZATION, COLLEGE PLANNING, EDUCATIONAL FINANCE, ENROLLMENT PROJECTIONS, FACILITY CASE STUDIES, FACILITY EXPANSION

CAPITAL OUTLAY NEEDS ARE PRESENTED FOR THE STATE-SUPPORTED INSTITUTIONS OF HIGHER EDUCATION IN MARYLAND. INCLUDED ARE THE SPACE INVENTORY, BUILDING QUALITY STUDY, AND SPACE UTILIZATION STUDY OF THE EXISTING FACILITIES. THE PROJECTION OF ACADEMIC BUILDING NEEDS IS BASED UPON THE ENROLLMENT PROJECTIONS, METHODS OF IMPROVING SPACE UTILIZATION, AND THE USE OF SPACE FACTORS TO DEVELOP VALID SPACE REQUIREMENTS. EQUITABLE DISTRIBUTION OF CAPITAL OUTLAY FUNDS ARE SUGGESTED BETWEEN THE STATE-SUPPORTED INSTITUTIONS RECOGNIZING THEIR DIFFERENCES IN SIZE, PROGRAM, AND LEVEL OF INSTRUCTION. (FS)

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A STUDY OF UTILIZATION OF INSTRUCTIONAL SPACE IN THE UNIVERSITY OF SOUTH FLORIDA

UNIVERSITY OF SOUTH FLORIDA, TAMPA

PUBLISHED-MAY67

120 PAGES

DESCRIPTORS- \*FACILITY CASE STUDIES, \*FACILITY REQUIREMENTS, \*FACILITY UTILIZATION RESEARCH, \*INTERIOR SPACE, \*SPACE UTILIZATION, CLASS SIZE, COLLEGE BUILDINGS, DATA, SCHOOL SPACE

THIS REPORT IS AN ANALYSIS OF THE UTILIZATION OF INSTRUCTIONAL SPACE AT THE UNIVERSITY OF SOUTH FLORIDA CONDUCTED FOR THE FALL TRIMESTER, 1965. UTILIZATION IS TABULATED BY ROOM TYPE, AND COLLEGE AND COURSE LEVEL. THESE ARE BROKEN DOWN FURTHER BY (1) DAYS OF THE WEEK, (2) HOURS OF THE DAY, (3) BUILDING, (4) SIZE OF ROOM, (5) FLOOR SPACE, AND (6) FULL TIME EQUIVALENT STUDENT. (FS)

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Tampa, Florida 33620

PHYSICAL FACILITIES, COLORADO COLLEGES AND UNIVERSITIES

BY- WALKER, CHARLES R. AND KOBLER, R. DALE  
COLORADO STATE COMMISSION ON HIGHER EDUCATION, DENVER

PUBLISHED-JAN69

AVAILABLE FROM- COLORADO COMMISSION ON HIGHER EDUCATION, 719  
STATE SERVICE BLDG., DENVER, COLORADO 80203

152 PAGES

DESCRIPTORS- \*BUILDING DESIGN, \*COLLEGE BUILDINGS, \*FACILITY  
INVENTORY, \*STATISTICAL STUDIES, \*STATE SURVEYS, COSTS,  
EDUCATIONAL RESOURCES, INTERIOR SPACE, RESEARCH METHODOLOGY,  
UNIVERSITIES

AN INVENTORY AND EVALUATION OF PHYSICAL FACILITIES OF ALL  
COLORADO PUBLIC COLLEGES AND UNIVERSITIES, WITH MINOR EXCEPTIONS,  
AND FOUR PRIVATE COLLEGES. THE STUDY WAS CONDUCTED IN ACCORDANCE  
WITH THE USOE SYSTEM FOR GATHERING UNIFORM EDUCATIONAL STATISTICS  
AND HAS BEEN COMPUTERIZED FOR FUTURE USE. THE INVENTORY AND  
EVALUATION ARE CLASSIFIED UNDER THE HEADINGS OF 1 INSIDE SPACE, 2  
BUILDING CHARACTERISTICS, 3 BUILDING EVALUATION, 4 BUILDING  
COSTS, AND 5 LAND. (FPO) //

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INDIANA FACILITIES UTILIZATION SURVEY FOR COLLEGES AND  
UNIVERSITIES, FALL 1967. HIGHER EDUCATION IN INDIANA. NEEDS AND  
RESOURCES 1968-85. CURRENT STATUS REPORT 5. FACILITIES  
INVENTORY-UTILIZATION

PUBLISHED- 68

298 PAGES

DESCRIPTORS- \*CAMPUS PLANNING, \*FACILITY CASE STUDIES, \*FACILITY  
INVENTORY, \*FACILITY UTILIZATION RESEARCH, \*SPACE UTILIZATION,  
COLLEGE PLANNING, FACILITY EXPANSION, FACILITY REQUIREMENTS,  
HIGHER EDUCATION, INSTRUCTIONAL PROGRAMS

RESOURCE AND DEMAND CHARACTERISTICS OF THE PUBLIC AND  
PRIVATE INSTITUTIONS OF HIGHER EDUCATION IN INDIANA ARE REVIEWED.  
A SUMMARY AND UTILIZATION STUDY OF THE PHYSICAL FACILITIES  
AVAILABLE ARE PRESENTED AS IS- A PROFILE OF THE INSTRUCTIONAL  
ACTIVITY FOR THESE COLLEGES AND UNIVERSITIES DURING THE FALL  
TERM, 1967. SPACE INVENTORY SUMMARIES ARE PRESENTED FOR BOTH  
RESIDENTIAL AND NON-RESIDENTIAL SPACE WITH EMPHASIS ON THE  
NON-RESIDENTIAL ANALYSIS. STATISTICS FOR INDIVIDUAL SCHOOLS ARE  
NOT REPORTED, BUT COMPARISONS ARE MADE ON A GROUP BASIS BY CAMPUS  
SIZE, PROGRAM EMPHASIS, OR SOURCE OF SUPPORT. WHERE APPROPRIATE,  
COMPARISONS ARE MADE WITH FACILITIES STUDIES OF OTHER STATES.  
(FS)

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A NEW PROJECTION OF BUILDING SPACE NEEDS AT THE UNIVERSITY OF MINNESOTA BY THE YEAR 1975. BASED ON METHODS DEVELOPED IN THE 1956 STUDY. 2ND ED. AUG 1967

UNIVERSITY OF MINNESOTA, OFFICE OF ROOM ASSIGNMENTS AND SCHEDULING, MINNEAPOLIS, MINN.

PUBLISHED-JUN64

041 PAGES

DESCRIPTORS- \*CAMPUS PLANNING, \*FACILITY EXPANSION, \*FACILITY REQUIREMENTS, \*MASTER PLANS, \*SPACE UTILIZATION, CONSTRUCTION PROGRAMS, DESIGN NEEDS, FACILITY GUIDELINES, FACILITY UTILIZATION RESEARCH, SCHOOL BUILDINGS

METHODS FOR DETERMINING TEACHING LOAD MEASUREMENTS AND FOR PROJECTING BUILDING SPACE NEEDS FOR THE VARIOUS FUNCTIONAL ACTIVITIES OF THE UNIVERSITY OF MINNESOTA ARE DISCUSSED AND EVALUATED. VARIOUS FACTORS WHICH MIGHT INFLUENCE THE SPACE NEEDS OF THE INDIVIDUAL DEPARTMENTS ARE IDENTIFIED AND EVALUATED. ASSIGNABLE SQUARE FOOT BUILDING SPACE NEEDS ARE PROJECTED IN LARGE AGGREGATES. (FS)

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