State System of Higher Education

Introduction to

Facilities Inventory and Classification Manual

The Facilities Inventory and Classification Manual was developed to provide guidelines to the universities of the State System of Higher Education to survey facilities for the gathering of data pertaining to the physical condition of the facilities and to establish a comprehensive inventory of space.

Modern educational programs are inherently dependent upon the quality of the facilities in which the programs are conducted. In order to support the System’s directed goal of providing a quality education for its students, quality facilities must be routinely built and maintained for the System. In order to achieve this end, a capital facilities planning and programming process must be implemented System-wide.

The capital facilities planning and programming process must include, at a minimum, a universally acceptable facilities inventory data base, a standardized method of auditing and assessing the condition of each facility, a facilities master plan for each university that has been prepared according to published guidelines, and criteria for planning and programming capital facilities.

This manual is the first step in formalizing the State System of Higher Education capital facilities planning and programming process. The manual will provide uniform continual guidelines for the physical inventory of the facilities of the State System of Higher Education.

The State System of Higher Education recognizes the value of the contribution of the National Center for Education Statistics, Postsecondary Education Facilities Inventory and Classification Manual. This document is the basis for the State System of Higher Education’s Facilities Inventory and Classification Manual.

The System also acknowledges the donation of time and the benefit of the knowledge provided by the committee, which included representation from several System universities. These individuals were instrumental in the development of this manual.
POSTSECONDARY
EDUCATION
FACILITIES
INVENTORY
AND
CLASSIFICATION
MANUAL

NOVEMBER 1992

WORKING GROUP
ON
POSTSECONDARY
PHYSICAL FACILITIES

ROSLYN KORB
NATIONAL CENTER FOR EDUCATION STATISTICS
National Center for Education Statistics

“The purpose of the Center shall be to collect, and analyze, and disseminate statistics and other data related to education in the United States and in other nations.”—Section 406(b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e–1).

November 1992
CHAPTER 4
BUILDING DEFINITIONS AND DATA ELEMENTS

This chapter provides the technical definitions, measurement procedures, and coding structures for building data elements. The interrelationships between these components of building area are illustrated by the conceptual framework in Figure 1. The technical definitions and codes for the room use categories are found in Chapter 5.

Definitions Of Building Areas

The definitions and procedures provided in this chapter are intended to clarify and provide guidelines for the most commonly used types of data to be collected and compiled on buildings. These guidelines are based on the definitions and standards established during the 1960s for the Federal Construction Council and published by the National Academy of Sciences. The Federal Construction Council standards were intended for use by federal agencies, but they have been widely adopted and used by colleges and universities.

The definitions and guidelines in this chapter attempt to clarify and update some of the earlier standards by providing additional guidance on how to interpret and apply measurement procedures. The guidelines also are intended to establish a common standard for the minimum amount of data to be included in a building inventory in order to provide a database that is usable for both intra-institutional and inter-institutional purposes. Institutions are not precluded by these guidelines from collecting additional building data or from including other types of structures in their facilities inventory.

1. Gross Area

   A. Definition: The sum of all areas on all floors of a building included within the outside faces of its exterior walls, including floor penetration areas, however insignificant, for circulation and shaft areas that connect one floor to another.

   B. Basis for Measurement: Gross area is computed by physically measuring or scaling measurements from the outside faces of exterior walls, disregarding cornices, pilasters, buttresses, etc., which extend beyond the wall faces. Exclude areas having less than a six-foot, six-inch clear ceiling height unless the criteria of a separate structure are met. (See the sections in Chapter 2 on buildings to be included in the inventory.)


Building Definitions and Data Elements 27
FIGURE 1: Conceptual Framework for Analyzing Building Space

<table>
<thead>
<tr>
<th>Gross Area</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Net Usable Area</th>
</tr>
</thead>
</table>

| Assignable Area |

Classified By:

1. Room Use Category

<table>
<thead>
<tr>
<th>Classroom</th>
<th>Laboratory</th>
<th>Office</th>
<th>Study</th>
<th>Special Use</th>
<th>General Use</th>
<th>Support</th>
<th>Health Care</th>
<th>Residential</th>
<th>Unclassified</th>
</tr>
</thead>
</table>

2. Academic Discipline, Institutional Unit Assignment, or Program

Categories Determined by Institution
(For external data sharing and reporting, a “crosswalk” to the NCES Classification of Instruction Programs is recommended.)

3. Standard Functional Codes

<table>
<thead>
<tr>
<th>Instruction</th>
<th>Research</th>
<th>Public Service</th>
<th>Academic Support</th>
<th>Student Services</th>
<th>Institutional Support</th>
<th>Physical Plant O &amp; M</th>
<th>Auxiliary Enterprises</th>
<th>Independent Operations</th>
<th>Hospitals</th>
</tr>
</thead>
</table>

Nonassignable Consists of:
1. Building Service Area
2. Circulation Area
3. Mechanical Area

Structural Area is:

Residual Amount of Gross Less Net Usable
Measured in terms of gross square feet (GSF),

\[ \text{Gross Area} = \text{Net Usable Area} + \text{Structural Space}. \]

C. **Description:** In addition to all the internal floored spaces obviously covered above, gross area should include the following: excavated basement areas; mezzanines, penthouses, and attics; garages; enclosed porches, inner or outer balconies whether walled or not, if they are utilized for operational functions; and corridors whether walled or not, provided they are within the outside face lines of the building, to the extent of the roof drip line. The footprints of stairways, elevator shafts, and ducts (examples of building infrastructure) are to be counted as gross area on each floor through which they pass.

D. **Limitations:** Exclude open areas such as parking lots, playing fields, courts, and light wells, or portions of upper floors eliminated by rooms or lobbies that rise above single-floor ceiling height.

E. **Exception:** Include top, unroofed floor of parking structures where parking is available. (See the section on Parking Structures at the end of this chapter.)

2. **Assignable Area (Net Assignable Square Feet — NASF)**

A. **Definition:** The sum of all areas on all floors of a building assigned to, or available for assignment to, an occupant or specific use.

B. **Basis for Measurement:** Assignable area is computed by physically measuring or scaling measurements from the inside faces of surfaces that form the boundaries of the designated areas. Exclude areas having less than a six-foot, six-inch clear ceiling height unless the criteria of a separate structure are met. (See the section, Buildings To Be Included, in Chapter 2.)

Measured in terms of assignable square feet (ASF),

\[ \text{Assignable Area} = \text{Sum of Area Designated by the Ten Assignable Major Room Use Categories}. \]

C. **Description:** Included should be space subdivisions of the ten major room use categories for assignable space — classrooms, labs, offices, study facilities, special use, general use, support, health care, residential and unclassified—that are used to accomplish the institution’s mission.

D. **Limitations:** Deductions should not be made for necessary building columns and projections. Areas defined as building service, circulation, mechanical, and structural should not be included.
3. Nonassignable Area

A. **Definition:** The sum of all areas on all floors of a building not available for assignment to an occupant or for specific use, but necessary for the general operation of a building.

B. **Basis for Measurement:** Nonassignable Area is computed by physically measuring or scaling measurements from the inside faces of surfaces that form the boundaries of the designated areas. Excludes areas having less than six-foot, six-inch clear ceiling height unless the criteria of a separate structure area met.

Measured in terms of area,

Nonassignable Area = Sum of the Area Designated by Three Nonassignable Room Use Categories.

C. **Description:** Included should be space subdivisions of the three nonassignable room use categories—building service, circulation and mechanical—that are used to support the building’s general operation.

D. **Limitations:** Deductions should not be made for necessary building columns and projections. Areas defined as assignable should not be included.

4. Building Service Area

A. **Definition:** The sum of all areas on all floors of a building used for custodial supplies, sink rooms, janitorial closets, and for public rest rooms. (NOTE: Building service area includes all areas previously classified as custodial area. Building service area also includes public rest rooms that were previously classified as mechanical area. Building Service Area does not include assignable areas (e.g., areas classified as 730-Central Storage and 870-Central Supplies are not part of Building Service Area).

B. **Basis for Measurement:** Building service area is computed by physically measuring or scaling measurements from the inside faces of surfaces that form boundaries of the designated areas. Exclude areas having less than a six-foot, six-inch clear ceiling height unless the criteria of a separate structure are met.

C. **Description:** Included should be janitor closets or similarly small cleanup spaces, maintenance material storage areas, trashrooms exclusively devoted to the storage of nonhazardous waste created by the building occupants as a whole, and public toilets.

D. **Limitations:** Deductions should not be made for necessary building columns and
minor projections. Areas defined as central physical plant shop areas, or special purpose storage or maintenance rooms, such as linen closets and housekeeping rooms in residence halls, should not be included. Does not include private rest rooms.

5. Circulation Area

A. Definition: The sum of all areas on all floors of a building required for physical access to some subdivision of space, whether physically bounded by partitions or not.

B. Basis for Measurement: Circulation area is computed by physically measuring or scaling measurements from the inside faces of surfaces that form the boundaries of the designated areas. Exclude areas having less than a six-foot, six-inch clear ceiling height unless the criteria of a separate structure are met.

C. Description: Included should be, but is not limited to, public corridors, fire towers, elevator lobbies, tunnels, bridges, and each floor’s footprint of elevator shafts, escalators and stairways. Receiving areas, such as loading docks, should be treated as circulation space. Any part of a loading dock that is not covered is to be excluded from both circulation area and the gross building area. A loading dock which is also used for central storage should be regarded as assignable area and coded as central storage (730). Also included are corridors, whether walled or not, provided they are within the outside facelines of the buildings to the extent of the roof drop line.

D. Limitations: Deductions should not be made for necessary building columns and minor projections. When determining corridor areas, only spaces required for public access should be included. Restricted access private circulation aisles used only for circulation within an organizational unit’s suite of rooms, auditoria, or other working areas should not be included.

6. Mechanical Area

A. Definition: The sum of all areas on all floors of a building designed to house mechanical equipment, utility services, and shaft areas.

B. Basis for Measurement: Mechanical area is computed by physically measuring or scaling measurements from the inside faces of surfaces that form the boundaries of the designated areas. Exclude areas having less than six-foot, six-inch clear ceiling height unless the criteria of a separate structure are met.

C. Description: Included should be mechanical areas such as central utility plants,
boiler rooms, mechanical and electrical equipment rooms, fuel rooms, meter and communications closets, and each floor’s footprint of air ducts, pipe shafts, mechanical service shafts, service chutes, and stacks.

D. Limitations: Deductions should not be made for necessary building columns and projections. Areas designated as private toilets are not included.

7. **Net Usable Area**

A. *Definition:* The sum of all areas on all floors of a building either assigned to, or available for assignment to, an occupant or specific use, or necessary for the general operation of a building.

B. *Basis for Measurement:* Net usable area is computed by summing the assignable area and the nonassignable area.

Measured in terms of net usable square feet (NUSF),

\[
\text{Net Usable Area} = \text{Assignable Area} + \text{Nonassignable Area}.
\]

C. *Description:* Included should be space subdivisions of the ten assignable major room use categories and the three nonassignable space categories.

D. *Limitations:* Deductions should not be made for necessary building columns and projections. Areas defined as structural should not be included.

8. **Structural Area**

A. *Definition:* The sum of all areas on all floors of a building that cannot be occupied or put to use because of structural building features.

B. *Basis for Measurement:* Precise computation by direct measurement is not possible under these definitions. It is determined by calculating the difference between the measured gross area and the measured net usable area.

Measured in terms of area,

\[
\text{Structural Area} = \text{Gross Area} - \text{Net Usable Area}.
\]

C. *Description:* Examples of building features normally classified as structural areas

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8Referred to as “construction area” in TR-50.
include exterior walls, fire walls, permanent partitions, unusable areas in attics or basements, or comparable portions of a building with ceiling height restrictions, as well as unexcavated basement areas.

**Other Building Information**

1. **Estimated Replacement Cost**
   
   A. **Definition:** The estimated cost to replace the building at the time of inventory.
   
   B. **Basis for calculation:** Determined in terms of the cost to replace the building’s gross floor area at current construction costs in accordance with current building and public safety codes, and standard construction methods. The Engineering News Record, R.S. Means\(^9\), or Boeckh\(^10\) are examples of frequently used sources of information for determining construction cost indices. The selected source of information should be locally determined. The replacement cost of fixed equipment in the building should be included.

2. **Condition**
   
   A. **Definition:** The physical status of the building at the time of the inventory or audit, based on the best judgment of those persons familiar with the physical characteristics and condition of the campus.
   
   B. **Derivation:** The most useful facilities management information is produced when the inventory or audit rates each subsystem of a building. This approach documents the building’s overall composite rating and provides information about needed repairs or replacements. A facilities audit should tie subsystem and overall composite ratings to the estimated building replacement value to provide a rough estimate of the cost of rehabilitating or renovating the facility.\(^11\)

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\(^9\)R.S. Means Company, Inc., Construction Consultants and Publishers, publishes an historical cost index. In addition, the Commercial/Industrial/Institutional section of one of the Means’ manuals contains base building costs per square foot or floor area for seventy model buildings.

\(^10\)The Boeckh Division of the American Appraisal Company computes a construction cost index that appears applicable to the mix and types of buildings found on college and university campuses. The index is reported in the *Higher Education Price Indexes* by Research Associates of Washington (Washington, D.C.).

### Table 3: Outline of Room Use Codes

<table>
<thead>
<tr>
<th>100</th>
<th>Classroom Facilities</th>
<th>500</th>
<th>Special Use Facilities</th>
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<tbody>
<tr>
<td>110</td>
<td>Classroom</td>
<td>510</td>
<td>Armory</td>
</tr>
<tr>
<td>115</td>
<td>Classroom Services</td>
<td>515</td>
<td>Armory Service</td>
</tr>
<tr>
<td>200</td>
<td>Laboratory Facilities</td>
<td>520</td>
<td>Athletic or Physical Education</td>
</tr>
<tr>
<td>210</td>
<td>Class Laboratory</td>
<td>523</td>
<td>Athletic Facilities Spectator</td>
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<td>215</td>
<td>Class Laboratory Service</td>
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<td>Physical Education Service</td>
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<td>220</td>
<td>Open Laboratory</td>
<td>530</td>
<td>Media Production</td>
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<td>225</td>
<td>Open Laboratory Service</td>
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<td>Media Production Service</td>
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<tr>
<td>250</td>
<td>Research/Nonclass Laboratory</td>
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<td>Clinic</td>
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<tr>
<td>255</td>
<td>Research/Nonclass Laboratory Service</td>
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<td>Clinic Service</td>
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<tr>
<td>300</td>
<td>Office Facilities</td>
<td>550</td>
<td>Demonstration</td>
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<tr>
<td>305</td>
<td>Faculty Office</td>
<td>555</td>
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<td>Faculty Office Service</td>
<td>560</td>
<td>Field Building</td>
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<td>315</td>
<td>Administrative Office</td>
<td>570</td>
<td>Animal Quarters</td>
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<td>320</td>
<td>Administrative Office Service</td>
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<td>325</td>
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<td>326</td>
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<td>330</td>
<td>Clerical Office Service</td>
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<td>Other (All Purpose)</td>
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<tr>
<td>332</td>
<td>Doctoral Student Office Service</td>
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<td>Special Use Facilities</td>
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<td>510</td>
<td>Armory</td>
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<td>515</td>
<td>Armory Service</td>
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<td>Athletic or Physical Education</td>
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<td>523</td>
<td>Athletic Facilities Spectator</td>
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<td>Physical Education Service</td>
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<td>Media Production Service</td>
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<td>545</td>
<td>Clinic Service</td>
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<tr>
<td>550</td>
<td>Demonstration</td>
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<tr>
<td>555</td>
<td>Demonstration Service</td>
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<tr>
<td>560</td>
<td>Field Building</td>
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<tr>
<td>570</td>
<td>Animal Quarters</td>
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<td>Animal Quarters Service</td>
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<td>585</td>
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<td>590</td>
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<tr>
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### Table 3: Outline of Room Use Codes (cont.)

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<tr>
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<th>Facilities</th>
<th>Code</th>
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<td><strong>Support Facilities</strong></td>
<td>919</td>
<td>Toilet or Bath</td>
</tr>
<tr>
<td></td>
<td>710 Central Computer or</td>
<td>920</td>
<td>Sleep/Study with Toilet or Bath</td>
</tr>
<tr>
<td></td>
<td>Telecommunications</td>
<td>935</td>
<td>Sleep/Study Service</td>
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<td></td>
<td>715 Central Computer or</td>
<td>950</td>
<td>Apartment</td>
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<td></td>
<td>Telecommunications Service</td>
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<td>Apartment Services</td>
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<td>820 Patient Bath</td>
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### Nonassignable Area Definitions

#### WWW Circulation
- WW1 Corridor
- WW2 Stairwell
- WW3 Elevator
- WW4 Vestibule

#### XXX Building Systems
- XX1 Restroom, Male
- XX2 Restroom, Female
- XX3 Restroom, Unisex
- XX4 Custodial
- XX5 Maintenance Storage (unique to building)

#### YYY Mechanical
- YY1 Electrical
- YY2 Machine
- YY3 Elevator
- YY4 Telecommunications

#### ZZZ Structural
Room Use Codes: Definitions, Descriptions, And Limitations

100 - Classroom Facilities

General

This category aggregates classroom facilities as an institution-wide resource, even though these areas may fall under different levels of organizational control. The term “classroom” includes not only general purpose classrooms, but also lecture halls, recitation rooms, seminar rooms, and other rooms used primarily for scheduled nonlaboratory instruction. Total classroom facilities include any support rooms that serve the classroom activity (e.g., 110 plus 115 as defined below). A classroom may contain various types of instructional aids or equipment (e.g., multimedia or telecommunications equipment) as long as these do not tie the room to instruction in a specific subject or discipline. (For treatment of such space, see 200-Laboratory Facilities).

Institutions may use extension codes to distinguish control over classroom areas, discipline use, type of instruction, contained equipment or other classroom variables (e.g., 120/125 departmental classroom). These extension codes should be capable of aggregation to total classroom space (110) as needed.

110 Classroom

Definition: A room used for classes and that is also not tied to a specific subject or discipline by equipment in the room or the configuration of the room.

Description: Includes rooms generally used for scheduled instruction that require no special, restrictive equipment or configuration. These rooms may be called lecture rooms, lecture-demonstration rooms, seminar rooms, and general purpose classrooms. A classroom may be equipped with tablet armchairs (fixed to the floor, joined in groups, or flexible in arrangement), tables and chairs (as in a seminar room), or similar types of seating. These rooms may contain multimedia or telecommunications equipment. A classroom may be furnished with special equipment (e.g., globes, pianos, maps) appropriate to a specific area of study, if this equipment does not render the room unsuitable for use by classes in other areas of study.

Limitations: This category does not include Conference Rooms (350), Meeting Rooms (680), Auditoria (610), or Class Laboratories (210). Conference rooms and meeting rooms are distinguished from seminar rooms according to primary use; rooms with chairs and tables that are used primarily for meetings (as opposed to classes) are conference rooms or meeting rooms (see room codes 350 and 680 for distinction). Auditoria are distinguished from lecture rooms based on primary use. A large room with seating oriented toward some focal point, and which is used for dramatic or musical productions, is an Assembly (610) facility (e.g., an auditorium normally used for purposes other than
scheduled classes). A class laboratory is distinguished from a classroom based on equipment in the room and by its restrictive use. If a room is restricted to a single or closely related group of disciplines by special equipment or room configuration, it is a laboratory (see 200 series).

115 Classroom Service

Definition: A room that directly serves one or more classrooms as an extension of the activities in that room.

Description: Includes projection rooms, telecommunications control booths, preparation rooms, coat rooms, closets, storage areas, etc., if they serve classrooms.

Limitations: Does not include projection rooms, coat rooms, preparation rooms, closets or storage areas, if such rooms serve laboratories, conference rooms, meeting rooms, assembly facilities, etc. A projection booth in an auditorium (not used primarily for scheduled classes) is classified as Assembly Service (615).
200 - Laboratory Facilities

General

A laboratory is a facility characterized by special purpose equipment or a specific room configuration which ties instructional or research activities to a particular discipline or a closely related group of disciplines. These activities may be individual or group in nature, with or without supervision. Laboratories may be found in all fields of study including letters, humanities, natural sciences, social sciences, vocational and technical disciplines, etc. Laboratory facilities can be subdivided into three categories: class, open, and research/nonclass laboratory. A class laboratory is sued for scheduled instruction. An open laboratory supports instruction but is not formally scheduled. A research/nonclass laboratory is used for research, experimentation, observation, research training, or structured creative activity which supports extension of a field of knowledge. Institutions may wish to further distinguish various types of class, open, and research laboratories through the use of extension or special codes.

NOTE: Within comprehensive research universities, it is difficult to draw precise lines between instruction and research activities. At institutions with medical and health science programs, it is even more complicated because of the difficulty in distinguishing between patient care and instruction or research activities. The problem of joint activities makes the classification of space very difficult.

The complexity of “research” and how it may affect room use classification decisions needs discussion at the institutional level. In general, there are three categories of research activities: externally budgeted or funded projects or centers, and separately organized centers or projects that are funded from institutional resources; departmental research activities that are neither separately budgeted or organized; and creative and intellectual activities of faculty in some disciplines that are the equivalent of departmental research (e.g., visual and performing arts are common examples).

When this complexity exists, institutions may elect to use standard room use codes for laboratories, office space, etc., and rely upon the actual activities of the faculty and staff housed within the space to determine the distinction between instruction and research. The room inventory data elements include a designation of function as a separate code for each room. If combined with financial and activity information, the combination of function and room use codes can accurately represent allocations of space for research more effectively and accurately than reliance upon only the room use code.

210 Class Laboratory

Definition: A room used primarily for formally or regularly scheduled classes that require special equipment or a specific room configuration for student participation, experimentation, observation, or practice in an academic discipline.
Description: A class laboratory is designed for or furnished with equipment to serve the needs of a particular discipline for group instruction in formally or regularly scheduled classes. This special equipment normally limits or precludes the room’s use by other disciplines. Included in this category are rooms generally called teaching laboratories, instructional shops, typing or computer laboratories, drafting rooms, band rooms, choral rooms, (group) music practice rooms, language laboratories, (group) studios, theater stage areas used primarily for instruction, instructional health laboratories, and similar specially designed or equipped rooms, if they are used primarily for group instruction in formally or regularly scheduled classes. Computer rooms used primarily to instruct students in the use of computers are classified as class laboratories if that instruction is conducted primarily in formally or regularly scheduled classes.

Limitations: Does not include Classrooms (110). Does not include informally scheduled or unscheduled laboratories (see 220). This category does not include rooms generally defined as Research/Nonclass Laboratories (250). It does not include gymnasiums, pools, drill halls, laboratory schools, demonstration houses, and similar facilities that are included under Special Use Facilities (500 series). Computer rooms in libraries or used primarily for study should be classified as Study Rooms (410).

215 Class Laboratory Service

Definition: A room that directly serves one or more class laboratories as an extension of the activities in those rooms.

Description: Includes any room that directly serves a class laboratory. Included are projection rooms, telecommunications control booths, coat rooms, preparation rooms, closets, material storage (including temporary hazardous materials storage), balance rooms, cold rooms, stock rooms, dark rooms, equipment issue rooms, etc., if they serve class laboratories.

Limitations: Does not include service rooms that support classrooms (see 115), Open Laboratories (225), or Research/Nonclass Laboratories (255). Animal Quarters (570) and Greenhouses (580) are categorized separately.

220 Open Laboratory

Definition: A laboratory used primarily for individual or group instruction that is informally scheduled, unscheduled, or open.

Description: An open laboratory is designed for or furnished with equipment that serves the needs of a particular discipline or discipline group for individual or group instruction where 1) use of the room is not formally or regularly scheduled, or 2) access is limited to specific groups of students. Included in this category are rooms generally called music practice rooms, language laboratories used for individualized instruction, studios for
individualized instruction, special laboratories or learning laboratories if discipline restricted, individual laboratories, and computer laboratories involving specialized restrictive software or where access is limited to specific categories of students. For example, a computer laboratory with only engineering or CAD software or a computer-based writing laboratory available only to English Composition students would be classified as an open laboratory because of the restricted usage of the room for a particular discipline or discipline group. Rooms containing computer equipment that is not restricted to a specific discipline or discipline group are classified as Study Rooms (see 410).

**Limitations:** Laboratories with formally or regularly scheduled classes are Class Laboratories (210). This category also does not include rooms defined as Research/Nonclass Laboratories (250). A room that contains equipment (e.g., typewriters, microcomputers) which does not restrict use to a specific discipline or discipline group, and which is typically used at a student’s convenience, should be classified as a Study Room (410).

225 **Open Laboratory Service**

*Definition:* A room that directly serves one or more open laboratories as an extension of the activities in those rooms.

*Description:* Includes only those rooms that directly serve an open laboratory. Included are projection rooms, telecommunications control booths, coat rooms, preparation rooms, closets, material storage (including *temporary* hazardous materials storage), balance rooms, cold rooms, stock rooms, dark rooms, equipment issue rooms, and similar facilities, if they serve open laboratories.

*Limitations:* does not include service rooms that support classrooms (see 115), Class Laboratories (215), or Research/Nonclass Laboratories (255). Animal Quarters (570), Greenhouses (580), and Central Service (750) facilities are categorized separately.

250 **Research/Nonclass Laboratory**

*Definition:* A room used primarily for laboratory experimentation, research or training in research methods; or professional research and observation; or structured creative activity within a specific program.

*Description:* A research/nonclass laboratory is designed or equipped for faculty, staff, and students for the conduct of research and controlled or structured creative activities. These activities are generally confined to faculty, staff and assigned graduate students and are applicable to any academic discipline. Activities may include experimentation, application, observation, composition, or research training in a structured environment directed by one or more faculty or principal investigator(s). These activities do not include practice or independent study projects and activities which, although delivering “new knowledge” to a student, are not intended for a broader academic (or sponsoring)
community (e.g., a presentation or publication). This category includes labs that are used for experiments, testing or “dry runs” in support of instructional, research or public service activities. Nonclass public service laboratories which promote new knowledge in academic fields (e.g., animal diagnostic laboratories, cooperative extension laboratories) are included in this category.

Limitations: Student practice activity rooms should be classified under Open Laboratory (220). A combination office/music or art studio or combination office/research laboratory should be coded according to its primary use if only a single room use code can be applied. Determination also should be made whether the “studio” or “research lab” component involves developing new knowledge (or extending the application or distribution of existing knowledge) for a broader academic or sponsoring community (and not merely for the practitioner), or the activity is merely practice or learning within the applied instructional process. Primary use should be the determining criterion in either case. Does not include testing or monitoring facilities (e.g., seed sampling, water or environmental testing rooms) that are part of an institution’s Central Service (750) system. Also does not include the often unstructured, spontaneous or improvisational creative activities of learning and practice within the performing arts, which take place in (scheduled) Class Laboratories (210) or, if not specifically scheduled, (practice) Open Laboratories (220). Such performing arts (and other science and non-science) activities, which are controlled or structured to the extent that they are intended to produce a specific research or experimental outcome (e.g., a new or advanced technique), are included in the Research/Nonclass Laboratory (250) category.

255 Research/Nonclass Laboratory Service

Definition: A room that directly serves one or more research/nonclass laboratories as an extension of the activities in those rooms.

Description: Includes only those rooms that directly serve a research/nonclass laboratory. Included are projection rooms, telecommunications control booths, coat rooms, preparation rooms, closets, material storage, balance rooms, cold rooms, stock rooms, dark rooms, equipment issue rooms, temporary hazardous materials storage areas, and similar facilities, if they serve research/nonclass laboratories.

Limitations: Does not include service rooms that support classrooms (see 115), Class Laboratories (215), or Open Laboratories (225). Animal Quarters (570), Greenhouses (580), and Central Service (750) facilities are categorized separately.
Office facilities are individual, multi-person, or workstation space specifically assigned to academic, administrative, and service functions of a college or university.

305 Faculty Office

Definition: A room housing a faculty member working at one or more desks, tables, or workstations. (See description and limitations below.)

315 Administrative Office

Definition: A room housing an administrative official working at one or more desks, tables, or workstations. (See description and limitations below.)

325 Clerical Office

Definition: A room housing a clerical employee working at one or more desks, tables, or workstations. (See description and limitations below.)

326 Doctoral Student

Definition: A room housing a student enrolled as a doctoral candidate working at one or more desks, tables, or workstations. (See description and limitations below.)

335 Graduate Student Assistant Office

Definition: A room housing a graduate student employee working at one or more desks, tables, or workstations. (See description and limitations below.)

336 Student Worker Office

Definition: A room housing a student employee working at one or more desks, tables, or workstations. (See description and limitations below.)

345 Teaching Assistant Office

Definition: A room housing a teaching assistant employee working at one or more desks, tables, or workstations. (See description and limitations below.)
355  Student Activities Office

Definition: A room housing students performing functions other than academic instruction, living, study, or recreational activities who work at one or more desks, tables, or workstations. (See description and limitations below.)

Description and Limitations for Categories 305, 315, 325, 326, 335, 336, 345, and 355

Description: An office is typically assigned to one or more persons as a station or work area. It may be equipped with desks, chairs, tables, bookcases, filing cabinets, computer workstations, microcomputers, or other office equipment. Included are faculty, administrative, clerical, graduate and teaching assistant, and student offices, etc.

Limitations: Any other rooms, such as glass shops, printing shops, study rooms, classrooms, research/nonclass laboratories, etc., that incidentally contain desk space for a technician or staff member, are classified according to the primary use of the room, rather than an office. Office areas do not need to have clearly visible physical boundaries; examples include open reception areas and library staff areas which would not otherwise be classified as Processing Rooms (440). In such cases, logical physical boundaries (phantom walls) may be assigned to calculate square footage. An office is differentiated from Office Service by the latter’s use as a casual or intermittent workstation or service room. For example, a room with a microcomputer intermittently used by one or more people separately assigned to an office should be coded as Office Service. A combination office, studio or research/nonclass laboratory should be coded according to its primary use if multiple room use codes with prorations are not used. A receptionist room that includes a waiting area should be coded as Clerical Office (325).

310  Faculty Office Service

Definition: A room that directly serves a faculty office or group of faculty offices as an extension of the activities in those rooms. (See description and limitations below.)

320  Administrative Office Service

Definition: A room that directly serves an administrative office or group of administrative offices as an extension of the activities in those rooms. (See description and limitations below.)
330 Clerical Office Service

Definition: A room that directly serves a clerical office or group of clerical offices as an extension of the activities in those rooms. (See description and limitations below.)

332 Doctoral Student Office Service

Definition: A room that directly serves a doctoral office or group of doctoral offices as an extension of the activities in those rooms. (See description and limitations below.)

340 Graduate Student Office Service

Definition: A room that directly serves a graduate student office or group of graduate student offices as an extension of the activities in those rooms. (See description and limitations below.)

342 Student Worker Office Service

Definition: A room that directly serves a student worker office or group of student worker offices as an extension of the activities in those rooms. (See description and limitations below.)

350 Teaching Assistant Office Service

Definition: A room that directly serves a teaching assistant office or group of teaching assistant offices as an extension of the activities in those rooms. (See description and limitations below.)

360 Student Activities Office Service

Definition: A room that directly serves a student activities office or group of student activities offices as an extension of the activities in those rooms. (See description and limitations below.)

Description and Limitations for Categories 310, 320, 330, 332, 340, 342, 350, and 360

Description: Includes file rooms, break rooms, kitchenettes serving office areas, copy and FAX rooms, vaults, closets, private rest rooms, records rooms, office supply rooms, first aid rooms serving office areas, student counseling rooms and testing (non-health and non-discipline-related) rooms, and open and private (restricted access) circulation areas.
Limitations: Waiting, interview, and testing rooms are included as office service if they serve a specific office or office area and not a classroom or laboratory; a student counseling (non-health) testing room should be coded as Administrative Office Service (320). A receptionist room that includes a waiting area should be coded as Administrative Office Service (320). Lounges which serve specific office areas and which are not generally available to the public should be coded as Administrative Office Service (320). Centralized mail rooms, shipping or receiving areas, and duplicating or printing shops that serve more than one building (or department or school, etc.) or that are campus-wide in scope should be classified as Central Service (750).

365 Conference Room

Definition: A room serving an office complex and used primarily for staff meetings and departmental activities.

Description: A conference room is typically equipped with tables and chairs. Normally it is used by a specific organizational unit or office area, whereas Meeting Rooms (680) are used for general purposes such as community or campus group meetings not associated with a particular department. If a room is used for both conference and meeting room functions, then the room should be classified according to its principal use. A conference room is distinguished from facilities such as seminar rooms, lecture rooms, and Classrooms (110) because it is used primarily for activities other than scheduled classes. A conference room is intended primarily for formal gatherings whereas a lounge is intended for relaxation and casual interaction. This category includes teleconference rooms.

Limitations: Does not include classrooms, seminar rooms, lecture rooms (see 110), auditoria (see 610), departmental lounges (see 315), open lounges (see 650), and Meeting Rooms (see 680).

370 Conference Room Service

Definition: A room that directly serves one or more conference rooms as an extension of the activities in those rooms.

Description: Includes kitchenettes, storage rooms, telecommunications control booths, projection rooms, sound equipment rooms, etc., if they serve conference rooms.

Limitations: Excluded are service rooms that support meeting rooms (see 685) or offices (see 315).
400 - Study Facilities

General

Study space is classified into five categories: study room, stack, open-stack study room, processing room, and study service. Offices used for library activities are coded as office facilities. A study room may contain equipment or materials which aid the study of learning process (e.g., microcomputers, computer terminals, multimedia carrels, typewriters, records and tapes) and which do not restrict the room to a particular academic discipline or discipline group. Whereas a Study Room (410) may appear in almost any type of building on campus (e.g., academic, residential, student service), Stacks (420), Open-Stack Study Rooms (430), and Processing Rooms (440) are typically located in, but not limited to, central, branch, or departmental libraries. Identification of library space should be made through the use of function codes, and departmental space through the combined use of academic discipline and function codes.

410 Study Room

Definition: A room or area used by individuals to study at their convenience, which is not restricted to a particular subject or discipline by contained equipment.

Description: Includes study or reading rooms located in libraries, residential facilities, academic or student service facilities, study carrel and booth areas, and similar rooms which are intended for general study purposes. Study stations may be grouped, as in a library reading room, or individualized, as in a carrel. Study stations may include microcomputers, typewriters, computer terminals, microform readers, or other multime- dia equipment. The category study Room includes rooms commonly termed “learning labs” or “computer labs” if they are not restricted to specific disciplines by contained equipment of software. Study rooms are primarily used by students or staff for learning at their convenience, although access may be restricted by a controlling unit (e.g., departmental study room).

Limitations: Does not include Open Laboratories (220) that are restricted to a particular discipline or discipline group. This category also does not include Lounges (650) that are intended for relaxation and casual interaction.

420 Stack

Definition: A room used to house arranged collections of educational materials for use as a study resource.

Description: Stacks typically appear in central, branch, or departmental libraries and are characterized by accessible, arranged, and managed collections. Collections can include books, periodicals, journals, monographs, micro-materials, electronic storage media (e.g., tapes, disks, slides, etc.), musical scores, maps, and other educational materials.
Limitations: Does not include general storage areas for such materials that serve a particular room or area; such rooms would take the appropriate service code. Examples of these service rooms include tape storage rooms for language laboratories (see 225), book storage rooms for classrooms (see 115), music for general listening enjoyment (see 675). Also does not include collections of educational materials, regardless of form or type (i.e., from books to soils collections), which are for exhibition use as opposed to a study resource (see 620).

430 Open-Stack Study Room

Definition: A combination study room and stack, generally without physical boundaries between the stack and study areas.

Description: Seating areas include those types of station and seating arrangements described under Study Room (410). The stack areas of these rooms may include any of the educational material collections described under Stack (420).

Limitations: Does not include Study Rooms (410) which have no stack areas. Those stack areas that have only a few incidental chairs or other seating, without a formally arranged study seating area, should be coded Stack (420). Institutions may wish to separate and code the seating or study areas (see 410) and stack areas (see 420) into separate room records. As with Stack (420) and Processing Rooms (440), Open-Stack Study Rooms (430) appear primarily in central, branch, and departmental libraries.

440 Processing Room

Definition: A room or area devoted to processes and operations in support of library functions.

Description: A processing room is intended for specific library operations which support the overall library mission. Included are card, microfiche, and on-line catalog areas; reference desk and circulation desk areas; bookbinding rooms; on-line search rooms; multimedia materials processing areas; interlibrary loan processing areas; and other areas with a specific process or operation in support of library functions.

Limitations: Areas which serve both as office stations and processing rooms should be coded according to primary use. Small incidental processing areas in larger stack or study areas should be included within the larger primary activity category (see 410, 420, 430). Does not include typical support rooms that serve study and other primary activity areas, such as storage rooms, copy rooms, closets, and other service-type rooms (see 455). Acquisitions work areas with a primary office use should be classified as Office (310).
455 Study Service

*Definition:* A room that directly serves study rooms, stacks, open-stack study rooms, or processing rooms as a direct extension of the activities in those rooms.

*Description:* Includes storage rooms, copy rooms, closets, locker rooms, coat rooms, and other typical service areas that support a primary study facilities room (see 410, 420, 430, 440).

*Limitations:* Does not include Processing Rooms (440) that house specific library support processes and operations (e.g., bookbinding rooms, multimedia processing rooms).
500 - Special Use Facilities

General

This category includes several room use categories that are sufficiently specialized in their primary activity or function to merit a unique room code. Areas and rooms for military training, athletic activity, media production, clinical activities (outside of separately organized health care facilities), demonstration, agricultural field activities, and animal and plant shelters are included here. Although many of these special use facilities provide service to other areas, their special use or configuration dictates that these areas not be coded as service rooms.

510 Armory

**Definition:** A room or area used by Reserve Officer Training Corps (ROTC) and ancillary units for military training and/or instructional activities.

**Description:** Rooms that are obviously designed or equipped for use in a military training or instructional program, such as indoor drill areas, indoor rifle ranges, and specially designed or equipped military science rooms, are included in this category. Ancillary units may include special rifle and drill teams.

**Limitations:** Conventional room use types such as Classrooms (110), Class Laboratories (210), Offices (310), and Study Rooms (410) are designated as such, even though they are located in an armory building. Military supply and weapons rooms are coded Armory Service (515).

515 Armory Service

**Definition:** A room that directly serves an armory facility as an extension of the activities in that facility.

**Description:** This category includes supply rooms, weapons rooms, and military equipment storage rooms.

**Limitations:** Rooms directly serving conventional primary activity areas are classified with the appropriate corresponding service code (e.g., 115-Classroom Service, 215-Class Laboratory Service, 315-Office Service, and 455-Study Service).

520 Athletic Or Physical Education

**Definition:** A room or area used by students, staff, or the public for athletic or physical education activities.
**Descriptions:** Includes gymnasia, basketball courts, handball courts, squash courts, wrestling rooms, weight or exercise rooms, racquetball courts, indoor swimming pools, indoor putting areas, indoor ice rinks, indoor tracks, indoor stadium fields, and field houses. This category includes rooms used to teach dancing and bowling only if they are part of the physical education instructional program.

**Limitations:** This room use code does not distinguish instructional from intercollegiate, intramural, or recreational use of these areas. Additional classification through function and academic discipline codes makes this distinction.

Classroom Facilities (100 series), Laboratory Facilities (200 series), Office Facilities (300 series) and other primary room use categories are coded as such, even though these areas may be located in an athletic or physical education building. Permanent spectator seating areas associated with athletic facilities are coded 523. Outdoor athletic areas, such as outdoor tennis and basketball courts, archery ranges, golf courses, and other outdoor fields, do not meet the definition of buildings and, therefore, are not assignable area. Recreational or amusement areas such as billiards rooms, game or arcade rooms, bowling alleys, table tennis rooms, ballrooms, chess and card playing rooms, and hobby and music listening areas are classified Recreation (670), if they are not used for instructional purposes.

### 523 Athletic Facilities Spectator Seating

**Definition:** The seating area used by students, staff, or the public to watch athletic events.

**Description:** Includes indoor permanent or fixed seating areas in gymnasia, field houses, ice arenas, covered stadia, natatorium, and cycling arenas.

**Limitations:** Does not include temporary or movable seating areas (e.g., movable bleachers). Outdoor permanent seating is not assignable space although it may contain assignable areas under it (e.g., locker rooms, offices, etc.).

### 525 Athletic Or Physical Education Service

**Definition:** A room that directly serves an athletic or physical education facility as an extension of the activities in that facility.

**Description:** Includes locker rooms; shower rooms; nonoffice coaches’ rooms; ticket booths; and rooms for dressing, equipment, supply storage, first-aid, skate-sharpening, towels, etc.

**Limitations:** Does not include public rest rooms which should be classified as nonassignable building service space. Rooms which directly serve offices, classrooms, laboratories, etc., are classified with the appropriate corresponding service code. Cashiers’
desks serving recreation facilities (see 670) are classified Recreation Service (675). Central ticket outlets serving multiple facilities or services are classified as Merchandising (660).

530 Media Production

**Definition:** A room used for the production or distribution of multimedia materials or signals.

**Description:** Includes rooms generally called TV studios, radio studios, sound studios, photo studios, video or audio cassette and software production or distribution rooms, and media centers. These rooms have a clearly defined production or distribution function that serves a broader area (e.g., department, entire campus) than would a typical service room.

**Limitations:** Does not include rooms that merely store media materials and equipment. Such rooms would be coded as Media Production Service (535) rooms if serving the primary production or distribution room (see 530), or the appropriate service category for the room(s) they serve. Radio or TV broadcasting areas and other media rooms used for teaching broadcasting to students for instructional purposes should be coded as laboratories (see 210, 220). This classification also does not include centralized computer-based data processing and telecommunications equipment facilities (see 710).

535 Media Production Service

**Definition:** A room that directly serves a media production or distribution room as an extension of the activities in that facility.

**Description:** The primary criterion here is that the room should serve a media production or distribution room and not another primary activity room. Examples include film, tape, or cassette libraries or storage areas; media equipment storage rooms; recording rooms; engineering maintenance rooms; darkrooms; preparation rooms; studio control booths; and other support areas that specifically serve a media production or distribution room (see 530).

**Limitations:** Those rooms containing media materials, equipment or operations which serve a primary activity room other than a 530 should be assigned the appropriate corresponding service code.

540 Clinic

**Definition:** A room used for providing diagnosis, consultation, treatment, or other services to patients or clients in facilities other than those separately organized health care facilities related to medicine, veterinary medicine, dentistry, or student health care.
**Description:** Included are patient or client examination rooms, testing rooms, and consultation rooms. Clinics are typically associated with such educational areas as psychology, law, speech, hearing, and similar areas.

**Limitations:** Does not include clinics associated with student health care, student counseling services, or clinics for the medical or dental treatment of humans or animals (see 800 series). Also does not include rooms used for remedial instruction which should be classified as classrooms or laboratories (see 100 and 200 series) or testing or counseling rooms in non-health or non-discipline-related programs (see 315).

545 **Clinic Service**

**Definition:** A room that directly serves a clinic facility as an extension of the activities in that facility.

**Description:** Included are waiting rooms, observation rooms, control rooms, records rooms, and similar supporting rooms.

**Limitations:** Does not include rooms that serve separately organized health care facilities (see 800 series). Also does not include first-aid treatment rooms that serve other primary activity areas (e.g., 525-Athletic Or Physical Education Service, 645-Day Care Service).

550 **Demonstration**

**Definition:** A room or group of rooms used to practice, within an instructional program, the principles of certain disciplines such as teaching, child care or development, and home management or economics.

**Description:** The key criterion here is practice activity within an instructional program which closely simulates a real-world or occupational setting. Includes demonstration day care and development centers, laboratory schools and home economics or management houses, when these facilities are used for practice as a part of collegiate training or instruction.

**Limitations:** Does not include day care and development centers which are not used as part of an instructional program (see 640). This category also does not include laboratories (see 200 series) that are used for direct delivery of instruction as opposed to practice. Demonstration schools, laboratory schools, day care centers, and home management houses in which students serve as the subjects for a research study are classified as Research/Nonclass Laboratories (250).

555 **Demonstration Service**

**Definition:** A room that directly serves a demonstration facility as an extension of the activities in that facility.
Description: Includes facilities generally called storerooms, pantries, etc., in a home-demonstration facility; and kitchens, lockers, shower rooms, etc., in a laboratory school. Similar support rooms which directly serve primary care and training areas in a demonstration day care center (see 550) are included in this category.

Limitations: Generally, the primary activity areas—such as kitchen, dining room, living room (in a home-demonstration house), or classrooms, laboratories, gymnasiums that serve nursery, elementary, or secondary school students (in a laboratory school)—should be designated as Demonstration (550). Primary care and training areas in a (practice) day care center are also Demonstration (550) rooms. Kitchen and food preparation rooms in a demonstration day care facility are classified as service areas. Eating or break rooms for staff in demonstration day care centers are classified as service areas; eating or training rooms for children are classified as primary activity areas (see 550).

560 Field Building

Definition: A barn or similar agricultural structure used for animal shelters or for the handling, storage, or protection of farm products, supplies, vehicles, or implements.

Description: Includes barns, animal and poultry shelters, sheds, silos, feed units, and hay storage. Structures are typically of light-frame construction with unfinished interiors and are frequently located outside the central campus area. Also includes storage space for farm vehicles and implements. Service areas that support field buildings are classified within this category.

Limitations: Animal quarters directly supporting research or instructional laboratories should be coded 570. Location of a building, on or off the main campus, is not sufficient justification for classification as a field building. Finished rooms with other uses (e.g., laboratories, classrooms, etc.) should be coded as appropriate. Does not include buildings that house nonagricultural or nonfarm related vehicles (see 740).

570 Animal Quarters

Definition: A room that houses laboratory animals used for research or instructional purposes.

Description: Includes animal rooms, cage rooms, stalls, wards, and similar rooms for instruction and research.

Limitations: Animal Quarters are typically subject to the rules and regulations of agencies regarding the care and use of laboratory animals (e.g., requirements of the American Association for Accreditation of Laboratory Animal Care [AAALAC]). Does not include areas for treatment of veterinary patient animals (see Health Care Facilities-800 series).
Does not include agricultural field buildings sheltering animals that do not directly support instruction or research (see 560).

575 Animal Quarters Service

Definition: A room that directly serves an animal quarters facility as an extension of the activities in that facility.

Description: Includes feed storage rooms, feed mixing rooms, cage washing rooms, nonpatient surgery rooms, casting rooms, or instrument rooms.

Limitations: Does not include areas that directly serve facilities used for the treatment of veterinary patient animals (see Health Care Facilities-800 series).

580 Greenhouse

Definition: A building or room, usually composed chiefly of glass, plastic, or other light transmitting material, which is used for the cultivation or protection of plants or seedlings for research, instruction, or campus physical maintenance or improvement purposes.

Description: The primary criterion here is the combination of structural design as a greenhouse and the use for cultivation or protection. An example would be a greenhouse that serves as a laboratory or service area for a botany or vocational (e.g., horticulture) educational program. This category includes any facility serving the greenhouse function (e.g., warehouse facilities equipped with special lighting controls for the cultivation or protection of plants).

Limitations: Greenhouses that are not used for plant cultivation or protection should be classified according to specific use (e.g., a greenhouse used for central storage should be coded 730).

585 Greenhouse Service

Definition: A room that directly serves a greenhouse facility as an extension of the activities in that facility.

Description: Includes equipment or materials storage areas and rooms generally called headhouses.

Limitations: Excludes storage areas that do not directly serve greenhouses.
590 Other

*Definition:* A category of last resort.

*Description:* Included as a category of last resort to be used only for those rooms or facilities that cannot be described, even approximately, with other codes and definitions.

*Limitations:* Should have very limited use, if used at all.
General Use Facilities

General

General use facilities are characterized by a broader availability to faculty, students, staff, or the public than are Special Use Facilities (500 series), which are typically limited to a small group or special population. General use facilities comprise a campus general service or functional support system (assembly, exhibition, dining, relaxation, merchandising, recreation, general meetings, day care) for the institutional and participant community populations.

610 Assembly

Definition: A room designed and equipped for the assembly of many persons for such events as dramatic, musical, devotional, livestock judging, or commencement activities.

Description: Includes theaters, auditoria, concert halls, arenas, chapels, and livestock judging pavilions that are used primarily for general presentations (speakers), performances (dramatic, musical, dance), and devotional services. Seating areas, orchestra pits, chancels, arenas, aisles, and stages (if not used primarily for instruction) are included in and usually aggregated into the assembly space. This category also includes chapels located in health care, residential, or other facilities. Institutions may wish to separate the seating area from the stage and other specially configured areas through the use of additional codes.

Limitations: Stage areas used primarily for instruction or practice (dance, music, drama) are typically coded separately as laboratory space (see 210, 220). Assembly facilities that are used primarily as instructional lecture halls are classified as Classroom (110) space.

615 Assembly Service

Definition: A room or area that directly serves an assembly facility as an extension of the activities in that facility.

Description: Includes check rooms, coat rooms, ticket booths, dressing rooms, projection booths, property storage, make-up rooms, costume and scenery shops and storage, green rooms, multimedia and telecommunications control rooms, etc.

Limitations: Entrance lobbies and other circulation areas outside of the primary assembly room are classified as nonassignable (circulation) space. A concession stand in an assembly facility is classified as Merchandising (660). Lounge areas that are remote from the assembly area within an assembly facility are classified by the appropriate service code or the Lounge (650) code.
620 Exhibition

**Definition:** A room or area used for exhibition of materials, works of art, artifacts, etc., and intended for general use by faculty, students, staff, and the public.

**Description:** Includes both departmental and institution-wide museums, galleries, and similar exhibition areas which are used to display materials and items for viewing by both the institutional population and the public. Planetariums used primarily for exhibition are also included in this category. Planetariums used primarily for research should be classified in the laboratory (200) series.

**Limitations:** Displays that are intended only for instructional purposes and not for general exhibitions (e.g., departmental instructional displays of anthropological, botanical, or geological specimens) should be classified as laboratory or laboratory service (see 200 series). Does not include bulletin boards and similar temporary or incidental displays in hallways, student centers, etc. Also does not include collections of educational materials, regardless of form or type (e.g., books, tapes, soils collections), which are for study resource as opposed to exhibition use (see 420).

625 Exhibition Service

**Definition:** A room that directly serves an exhibition facility as an extension of the activities in that facility.

**Description:** Includes preparation workrooms, storage rooms, vaults, etc., that serve general exhibition areas (see 620).

**Limitations:** Research areas in museums are classified as Research/Nonclass Laboratory (250) or Research/Nonclass Laboratory Service (255). Service Areas for displays that are part of an instructional program are classified as classroom service or laboratory service areas.

630 Food Facility

**Definition:** A room used for eating.

**Description:** Includes dining halls, cafeterias, snack bars, restaurants, and similar eating areas, including such areas in residence halls, faculty clubs, etc. This category includes facilities open to students, faculty, staff, or the public at large. The primary distinction of a Food Facility (630) area is the availability of some form of accommodation (seating, counters, tables) for eating or drinking. This is, therefore, an area intended for the actual consumption of food and drink. Vending areas with seating, counters or tables and sit-down lunch or vending rooms that serve a shop facility are included in this category.
Limitations: Vending areas not provided with seating, counters or tables are classified as Merchandising (660) or with the appropriate service code if the vending directly supports or is adjacent to a specific room for consuming the products (e.g., a 635-vending room serving a 630-dining hall).

Lounges (650) with vending machines that are incidental to the primary use of the room (i.e., relaxation) are coded as part of the lounge, if within the room, or as Lounge Service (655) if separate from and directly supporting the main lounge facility (see 650). Break rooms serving specific office areas are classified as Office Service (315). Eating areas for children in demonstration or day care facilities are classified as primary activity categories within these respective areas (see 550, 640); staff-only eating or break rooms in these facilities are classified as service areas (see 555, 645).

635 Food Facility Service

Definition: A room that directly serves a food facility as an extension of the activities in that facility.

Description: Includes kitchens and other preparation areas, cold storage and freezer refrigeration rooms, dishwashing rooms, food serving areas, cleaning areas, etc. Includes first aid and vending areas directly serving food facilities, or adjacent to an eating area.

Limitations: Does not include any type of food preparation room which does not serve a food facility or eating area (see 630). Kitchenettes in residence facilities that do not serve a dining area are classified as Sleep/Study Service (665). Kitchens and food preparation areas in demonstration or day care facilities are classified as service areas to those facilities (see 555, 645).

640 Day Care

Definition: A room used to provide day or night, child or elderly adult care as a nonmedical service to members of the institutional community.

Description: Includes all primary activity rooms that provide oversight, supervision, developmental training and general personal care for assigned children or adults (e.g., play areas, nonstaff eating areas, and child training rooms). This type of facility serves as a central service center for faculty, staff, and students, with members or the community being served as needed. This is not a medical care facility (i.e., medical attention is strictly limited to maintaining prescribed medication schedules and providing first aid).

Limitations: Does not include those support rooms (e.g., storage rooms, closets, and pantries) typically used as service rooms (see 645). This category also does not include
demonstration houses, laboratory schools or other facilities with a primary function of providing collegiate practice as part of the instructional process (see 550). Also excluded from this category are those service areas classified as Central Service (750), and Laboratory Facilities (200 series) that directly support instruction (e.g., vocational training programs for parent education and early childhood education).

645  **Day Care Service**

*Definition:* A room that directly serves a primary activity room in a day care facility as an extension of the activities in that room.

*Description:* Includes storage rooms, closets, kitchens, pantries, private or staff rest rooms, and other typical service rooms that support a primary activity area.

*Limitations:* Does not include those rooms (e.g., child training rooms, playrooms—see 640) where primary day care activities are conducted. Rest rooms designed for child training should be coded 640; staff-only rest rooms should be coded 645. Kitchen or food preparation areas in a day care facility are classified as service areas (see 645). Staff eating or break areas should be coded 645, whereas eating or training areas for children are classified as primary activity space (see 640). Staff office areas should be coded 310.

650  **Lounge**

*Definition:* A room used for rest and relaxation that is not restricted to a specific group of people, unit or area.

*Description:* A lounge facility is typically equipped with upholstered furniture, draperies, or carpeting, and may include vending machines. A general use lounge (see 650) differs from an office area or break room lounge (see 315) by virtue of its public availability. If a room is open for use by people visiting or passing through a building or area, it is coded Lounge (650). Such a room may have vending machines if the primary use of the room is rest, relaxation, informal socializing and not for eating (see 630).

*Limitations:* A lounge facility is distinguished from a Conference Room (350) and a Meeting Room (680), both of which are intended for formal meetings, by its more informal function of rest, relaxation or casual interaction and its public availability. A lounge area associated with a public rest room is included with the rest room as nonassignable (building service area) space. A room devoted to vending machines without accommodation (seating, counters or tables) for local food or drink consumption is classified as Merchandising (660). A lounge that directly serves a specific or restricted area is classified by the appropriate corresponding service code (e.g., a lounge serving an assembly facility is classified 615-Assembly Service). A lounge differs from a lobby (nonassignable circulation area) in placement, use, and intent. A lobby is generally located at a...
major entrance with openings to hallways on more than one side; and although it may have seating furniture, it is designed more for walking through (or having standing conversations) than for sitting and relaxing. Separate waiting rooms in other than health care facilities are classified with the appropriate service code according to the room or area they serve. A receptionist room that includes a waiting area should be classified as Office (310). Public waiting areas in health care facilities are coded as 880.

**655 Lounge Service**

*Definition:* A room that directly serves a general use lounge facility.

*Description:* Includes kitchenettes, storage areas, and vending rooms that directly serve a general use lounge facility (see 650).

*Limitations:* This category does not include kitchenettes, storage rooms, and small vending areas that directly serve other room use types (e.g., a small vending area serving a dining hall eating area should be classified as 635-Food Facility Service).

**660 Merchandising**

*Definition:* A room used to sell products or services.

*Description:* Includes product and service sales areas such as bookstores, student supply stores, barber or beauty shops, post offices, campus food stores, walk-away vending machine rooms, and central ticket outlets servicing multiple facilities or activities.

*Limitations:* Does not include dining rooms, restaurants, snack bars, and similar Food Facilities (630). A vending machine room that directly serves a dining, lounge or other primary activity area is classified with the appropriate service code; a vending machine area within a general use lounge is included in the Lounge (650) space. Vending areas that include accommodations (seating, counters or tables) for consuming the products are classified as Food Facility (630). Meeting and conference rooms in hotels or motels are classified as Meeting Rooms (680). Sleeping rooms in hotels or motels are classified in the appropriate category of Residential Facilities (900 series). Cashiers’ desks that serve a specific recreational facility or area are classified as service space for that area (see 670, 675). Day care centers used for practice within an instructional program are classified as Demonstration (550). Day care centers that are not part of such a program are classified under Day care (640).

**665 Merchandising Service**

*Definition:* A room that directly serves a merchandising facility as an extension of the activities in that facility.

600 - General Use Facilities
Description: Includes storage rooms and closets, sorting rooms, private rest rooms, and other support rooms if they directly serve a Merchandising (660) facility.

Limitations: Storage rooms, sorting rooms, and private rest rooms that do not serve a merchandising area should be classified using the appropriate service code for the corresponding room use type.

670 Recreation

Definition: A room used by students, staff or the public for recreational purposes.

Description: Includes exercise and general fitness rooms, billiards rooms, game and arcade rooms, bowling alleys, table tennis rooms, dance or ballrooms, chess rooms, card playing rooms, hobby rooms, TV rooms, reading (nonstudy) rooms, and music listening rooms that are used for recreation and amusement and not for instructional purposes. Recreation rooms and areas are used for relaxation, amusement-type activities, whereas Athletic Or Physical Education (520) facilities are typically used for the more vigorous pursuits within physical education, intercollegiate athletics, and intramural programs.

Limitations: Does not include gymnasium, basketball courts, weight rooms, racquetball courts, handball courts, squash courts, wrestling rooms, indoor swimming pools, indoor ice rinks, indoor tracks, indoor stadium fields, indoor golf and other areas primarily used for physical education, intramural or intercollegiate athletic activities (see 520). Outdoor athletic and physical education fields, courts, and other nonenclosed areas are also excluded because they are not building space. This category also does not include bowling alleys, dance rooms, or any other activity areas that are primarily used for instruction. Reading or media use rooms that are designed and intended as study rooms are also excluded from this category (see 410).

675 Recreation Service

Definition: A room that directly serves a recreation facility as an extension of the activities in that facility.

Description: Includes storage rooms, closets, equipment issue rooms, cashiers’ desks, first aid, and other support areas that directly serve a Recreation (670) facility.

Limitations: Does not include kitchens, snack bars, or other Food Facilities (630) and Food Facility Service (635) areas. Locker rooms, shower rooms, ticket booths, dressing rooms, equipment rooms, and other areas directly serving Athletic Or Physical Education (520) facilities are classified as service rooms (see 525) to those facilities. Central ticket outlets serving multiple facilities or services are classified as Merchandising (660).
680 Meeting Room

*Definition:* A room that is used by the institution or the public for a variety of nonclass meetings.

*Description:* The key concept here is public availability. Conference Rooms (350) are often confused with meeting rooms because they are both primarily used for nonclass meetings. However, conference rooms are restricted service components of an office complex or used by office occupants of a specific area and are generally limited to staff meetings or other departmental nonclass activities. Although it may be assigned to a specific organizational unit, a meeting room is more available and open to study groups, boards, governing groups, community groups, various student groups, nonemployees of the institution, and various combinations of institutional and community members. Meeting rooms in institutional hotels or motels and other for-fee meeting rooms are included in this category.

Meeting rooms may be configured like classrooms (i.e., with participant focus to the front of the room), and may be equipped with a variety of furniture types (e.g., tables and chairs, lounge-type furniture, tablet armchairs, or a large table) in various combinations and arrangements.

*Limitations:* Rooms serving an office complex and used primarily for staff meetings are classified as Conference Room (350). Seminar and lecture rooms used primarily for scheduled classes are classified as Classroom (110). Rooms designed and equipped for the assembly of many persons for such events as dramatic, musical or devotional activities, etc., should be classified as Assembly (610).

685 Meeting Room Service

*Definition:* A room that serves a meeting room as an extension of the activities in that room.

*Description:* Includes kitchenettes, multimedia storage and control rooms, furniture storage rooms, and other support rooms that directly serve a meeting room.

*Limitations:* Does not include kitchenettes, storage rooms, and other support areas that serve a Conference Room (355) or Assembly Facility (615).

690 Locker Room

*Definition:* A room that serves as a place to change and store clothing or personal belongings, usually including shower and toilet facilities.

*Description:* Includes rooms containing lockers other than those in athletic facilities (525), as well as separate rooms containing lockable storage cabinets in shops and storage facilities.

*Limitations:* Does not include locker areas in athletic facilities (525), hallways, or nonassignable space within the circulation areas.
700 - Support Facilities

General

Support Facilities, which provide centralized space for various auxiliary support systems and services of a campus, help keep all institutional programs and activities operational. While not as directly accessible to institutional and community members as General Use Facilities (600 series), these areas provide a continuous, indirect support system to faculty, staff, students, and the public. Support facilities are centralized in that they typically serve an area ranging from an entire building or organizational unit to the entire campus. Included are centralized areas for computer-based data processing and telecommunications, shop services, general storage and supply, vehicle storage, central services (e.g., printing and duplicating, mail, shipping and receiving, environmental testing or monitoring, laundry, or food stores), and hazardous materials areas.

710 Central Computer Or Telecommunications

Definition: A room used as a computer-based data processing or telecommunications center with applications that are broad enough to serve the overall administrative or academic primary equipment needs of a central group of users, department, college, school, or entire institution.

Description: A Central Computer or Telecommunications rooms may be one of a group of rooms which constitute a center for delivering computer-based data processing or telecommunications services to various levels of user groups. Although the ongoing primary activity of this category is tied more closely to equipment than human activity, these areas require technical support staff, and physical access may be restricted to these personnel. These central equipment rooms appear most frequently at the campus-wide and large organizational unit levels and are generally subject to environmental and security controls and procedures limiting users to electronic terminal, telephone or modem access. Includes central rooms housing computer or computers (e.g., large mainframe, minicomputers, etc.), peripheral input (e.g., data entry terminals, input tape or disk drives, etc.) devices. This category also includes rooms in a central computer complex which are primarily or exclusively dedicated to data or program code entry or job submissions through one or more terminals.

Computer-based telecommunications equipment rooms, ranging from micro-driven LAN (local area) to the larger PBX (private branch) network centers, including central rooms housing satellite signal reception or transmission equipment, should be assigned the 710 code. This equipment may be dedicated to data, audio or telephone, video or any combination of these electronic transmissions.
Limitations: Does not include office space (see 310) assigned to programmers, analysts, engineers, data entry personnel, and other technical staff even though these rooms usually contain an access terminal. Also does not include instructional laboratories and study rooms equipped with personal computers or terminals (see 210, 220, 410), or offices with data processing equipment used as office tools (see 310, 315). Personal computer or terminal work rooms and printer rooms that serve an office area should be coded Office Service (315). Small closet areas housing reception or distribution telecommunications equipment and wiring which are not used by technical or support staff on a regular basis (i.e., repair or modification only) should be classified as nonassignable mechanical space.

715 Central Computer Or Telecommunications Service

Definition: A room that directly serves a central computer or telecommunications facility as an extension of the activities in that facility.

Description: Includes paper and forms storage, off-line tape and disk storage, separate control or console rooms or booths, tool and parts rooms, bursting and decollating rooms, areas used to store only inactive support equipment (e.g., multiplexers, modems, spoolers, etc.), and separate areas used for delivering tapes or picking up printouts. Also includes the repair and assembly rooms that directly serve the central computer or telecommunications facility.

Limitations: Does not include office areas for personnel (e.g., technicians, engineers, analysts, programmers) assigned to the central computer facility (see 310), primary equipment (computer, I/O device) rooms (see 710), and office areas containing data processing or networking office service equipment or materials (see 310, 315). Also does not include rooms directly supporting study rooms (see 455) or laboratories (see 215, 225, 255) that contain special computer equipment used for study, instruction or research. A nonoffice workroom containing a remote printer or data/job entry terminal that is part of an office area, and not the central computer facility, should be coded Office Service (315). A printer room serving a general purpose terminal room in a dormitory should be classified as Study Service (455).

720 Shop

Definition: A room used for the manufacture, repair, or maintenance of products or equipment.

Description: Includes carpenter, plumbing, HVAC, electrical and painting shops, and similar physical plant maintenance facilities. This category also includes centralized shops for construction or repair of research or instructional equipment, and repair and maintenance of multimedia equipment and devices. Special purpose shops (e.g., glass
blowing, machining) supporting multiple rooms for scientific instruction and research are included in this category.

**Limitations:** Does not include instructional “shops” (i.e., industrial arts or vocational-technical shops used for instruction), which should be classified as Laboratory Facilities (200 series). Facilities used for producing and distributing multimedia materials and signals are classified as Media Production (530). Architectural and engineering drafting rooms serving the physical plant operation are classified as Office (310). Blueprint storage rooms are classified as Office Service (315). Small, incidental equipment repair, assembly or cleaning rooms that directly serve an adjacent or nearby primary activity room should be classified according to the appropriate corresponding service code. This category also does not include areas used for the repair and maintenance of institution owned vehicles (see 745) or rooms directly serving media production or distribution areas (see 535). Also excludes costume and scene “shops” serving theater areas (see 615). Greenhouses used for campus physical maintenance or improvements should be coded 580.

**725 Shop Service**

**Definition:** A room that directly serves a shop facility as an extension of the activities in that facility.

**Description:** Includes tool storage rooms, materials storage rooms, and similar equipment or material supply or storage rooms. Locker, shower, first aid, and similar nonpublic areas that serve the shop facility should be included.

**Limitations:** Does not include service areas for class laboratories (see 215) or research/nonclass laboratories (see 255). Also does not include vehicular repair facilities (garages) classified as Vehicle Storage Service (745). Blueprint storage rooms should be classified as Office Service (315). Rooms directly serving media production or distribution facilities are coded 535. Sit-down lunch or vending rooms that serve a shop facility are classified Food Facility (630).

**730 Central Storage**

**Definition:** A room or building that is used to store equipment or materials and that serves multiple room use categories, organizational units, or buildings.

**Description:** The concept of central or general is key to applying this code correctly. The vast majority of storage rooms on a campus are service rooms (e.g., 115, 215, 355, 615, etc.) that directly support a primary activity room or room group; for example, a paper storage room (see 315) can serve several offices (see 310) in an area. Service storage rooms are somewhat close to the areas they serve and are used more than occasionally. Central storage areas include areas commonly called warehouses, surplus stor-
age, central campus supply or storage and inactive storage. A storage room incidentally used to store janitorial supplies would remain in this category. It also includes storage rooms in a building or building area that serve multiple room use categories and which are used for general or surplus (e.g., furniture, equipment) collection or storage. The 730 code can usually be used for all storage areas that do not qualify as service rooms.

Limitations: Does not include a storage room directly serving a primary room use category or group of such rooms (i.e., a room that is clearly a service room). Also, this category does not include nonassignable area (circulation, building service, or mechanical areas). Offices within warehouses or other central storage buildings are coded as Office (310). Centralized food stores and laundries are classified Central Service (750).

735 Central Storage Service

Definition: A room that directly serves a central storage facility as an extension of the activities in that facility.

Description: Central storage service rooms are typically limited to support rooms associated with the transporting of materials in and out of large central storage facilities and warehouses. Storage rooms for hand trucks and other moving equipment, shelving storage, and other rooms supporting the central storage function are included.

Limitations: Only those rooms directly supporting the (usually) larger Central Storage (730) area should be classified with this code.

740 Vehicle Storage

Definition: A room or structure that is used to house or store vehicles.

Description: Includes structures, buildings, and rooms generally called garages, boathouses, and airplane hangars. The definition of “vehicle” is broadly interpreted here to include forklifts, moving equipment, and other powered transport devices or equipment.

Limitations: This category does not include unroofed surface parking lots. It also does not include structures that house or store farm vehicles and implements (see 560). (See final section of Chapter 4 for suggested classification of parking structures.)

745 Vehicle Storage Service

Definition: A room that directly serves a vehicle storage facility as an extension of the activities in that facility.

Description: Includes any areas or rooms directly serving a vehicle storage facility, such as storage rooms and areas used for maintenance and repair of automotive equipment, boats, airplanes, and other vehicles as defined in Vehicle Storage (740).
Limitations: Does not include shops as defined in Shop (720) above (e.g., carpenter, plumbing, electrical, painting, etc.). Offices within a Vehicle Storage facility should be classified as such (see 310).

750 Central Service

Definition: A room or area that is used for the processing, preparation, testing, or delivery of a complex-central or campus-wide support service.

Description: The central service delivery may be provided by special equipment, human activity, the special availability of space, or any combination of these elements. Includes centralized food stores and laundries which typically serve the occupants or activities of more than one building. Also includes central facilities for printing and duplicating services, central mail facilities, central shipping and receiving areas, and central environmental testing or monitoring facilities, if they serve the occupants and activities of more than one building. Institutions may wish to differentiate individual central services through the use of additional codes in this series. Most of these centralized areas have a campus-wide service scope.

Limitations: Does not include those rooms providing the above listed functions if they support other primary activity rooms in the same building. For example, a food storage area in a cafeteria should be coded 635; a laundry room in a residence hall should be coded 935; a copy or mail room in an office area is coded 315. Media Production (530) or distribution facilities and computer-based data processing and telecommunications equipment centers (see 710) are coded separately. Facilities used for the manufacture, repair or maintenance of products or equipment should be coded Shop (720). Central Storage (730) or supply facilities and Vehicle Storage (740) facilities also have separate codes.

755 Central Service Support

Definition: A room that directly serves a central service facility as an extension of the activities in that facility.

Description: Central Service Support rooms are typically limited to extension storage rooms for supplies, parts, and moving or nonactive equipment; and adjacent, directly supporting repair and maintenance areas.

Limitations: Offices within a central service area or complex should be coded Office (310). Centralized physical plant repair and maintenance facilities that do not directly support a Central Service (750) facility should be coded Shop (720).
760 Hazardous Materials

Definition: A centralized facility used for the storage, treatment, or disposal of hazardous or toxic waste materials.

Description: Hazardous or toxic materials include any materials which have been designated for specific or formal regulation or controls on the basis of a potential harm to plant or animal life. Includes facilities devoted to the treatment or disposal of toxic or hazardous waste.

Limitations: Does not include temporary storage or disposal sites located near or adjacent to instructional or research facilities (see 215, 225, 255).

765 Hazardous Materials Service

Definition: A facility that serves a centralized facility used for the storage, treatment, or disposal of hazardous or toxic waste materials.

Description: Includes those facilities that directly serve the Hazardous Materials (760) facility.

Limitations: Does not include facilities that serve temporary storage or disposal sites located near or adjacent to instructional or research facilities.

770 Utility Production

Definition: A building that contains equipment to generate steam, hot, chilled, or cold water, electricity, potable water, or facilities used in the treatment of sewage.

Description: Includes boiler plants, water treatment plants, chilled water plants, sewage treatment plants, cogeneration plants, electric generation stations, telephone switch buildings.

Limitations: Does not include the distribution systems from the plant to the end user, including substations, transformer banks, telephone cabinets, or closets.
800 - Health Care Facilities

General

This series provides room use classifications for patient care rooms that are located in separately organized health care facilities: student infirmaries, teaching hospitals and clinics, and veterinary and medical schools. Room codes and definitions apply to both human and animal health care areas; excluded are clinic facilities located outside of separately organized health care facilities (see 540). Whereas the codes in this series are confined to the settings listed, these facilities usually house areas that are classified using applicable codes from the other use classification series (e.g., classroom, laboratory, office, special use, general use, supporting facilities, etc.).

810 Patient Bedroom

Definition: A room equipped with a bed and used for patient care.

Description: This category includes general nursing care, acute care, semiconvalescent and rehabilitative adult or pediatric bedrooms, intensive care units, progressive coronary care units, emergency bed care units, observation units, infant care nurseries, incubator units, wards, etc. Connected clothes closets may be aggregated with the 810 space or classified separately as 815. Stalls for animal patients are also included, although specific bedding areas may not be provided. Veterinary facility areas commonly called veterinary quarters, small or large animal ward, equine stall, bovine stall, etc., are included in this category.

Limitations: Student residence quarters should be classified with the Residential Facilities (900 series) codes. Staff on-call rooms for resting and sleeping are coded 890. Does not include nonpatient animal shelters used for farm animals (see 560) or nonveterinary school laboratory animals (see 570).

815 Patient Bedroom Service

Definition: A room that directly serves one or more patient bedrooms as an extension of the activities in those rooms.

Description: Included are linen closets, patient lounges, children’s play rooms and any other service areas that are used primarily by patients as opposed to staff. Also includes small anterooms and closets connected to the patient bedrooms if these areas are not aggregated with the 810 space. Veterinary facility areas commonly called ward storage and groom rooms should be classified within this category.

Limitations: Excludes the small, connected clothes closets in patient bedrooms, which are included in the 810 space. Support areas that do not directly serve a patient bedroom or patient bedroom ward should be classified with the service code corresponding to the
primary activity area being served. Also not included are the utility, storage, medication preparation and other work rooms that serve a nurse station (see 835). Does not include feed storage or mixing rooms, cage washing areas, surgery, casting or instrument rooms that serve a laboratory animal quarters facility (see 575). Veterinary institution feed storage and food preparation rooms are classified as Nurse Station Service (835).

820 Patient Bath

Definition: A room containing patient bath and toilet facilities.

Description: Included in this category are toilet and bath facilities adjoining or in conjunction with patient bedrooms. These rooms may contain various configurations of toilet, tub, shower or commode facilities; individual types of Patient Bath (820) may be distinguished through the application of extension codes. Animal cleaning rooms in veterinary schools are included in this classification unless the cleaning rooms are specifically used for surgery preparation (see 845).

Limitations: Public rest rooms and private rest rooms serving areas other than patient bedrooms (e.g., 315, 835) are excluded. Special tub rooms used by nursing staff for cleaning patients are classified Nurse Station Service (835). Animal groom rooms should be coded 815.

830 Nurse Station

Definition: A room or area used by nurses or other patient care staff who are supervising or administering health care services.

Description: This is the primary workstation area used by nurses and other patient care staff; these personnel are typically assigned to a specific ward of the facility. Includes ward reception and admissions desks and records or charting work areas.

Limitations: Rooms that are used as offices should be classified appropriately (see 310).

835 Nurse Station Service

Definition: A room that directly serves one or more nurse station rooms as an extension of the activities in those rooms.

Description: Includes nurse lounges or break rooms, locker rooms, private staff rest rooms, utility rooms, storage (e.g., medications, supplies, etc.), formula and medication preparation areas, equipment sterilization and other work rooms directly serving the nurse station. Also includes special tub rooms, nourishment rooms and separate storage rooms for records and charts. Animal or poultry maintenance service rooms in veteri-
nary institutions, including tack rooms, horseshoeing rooms, food preparation and feed storage rooms, are also included in this category.

Limitations: Rooms used as offices should be classified appropriately (see 310). Pharmacy and other central supply areas are classified Central Supplies (870). Areas directly serving patient bedrooms are coded 815. Additional codes may be used to distinguish clean and soiled utility rooms, medication and nourishment rooms, etc., as needed.

840 Surgery

Definition: A room used for surgery.

Description: Included in this category are major and minor surgery rooms, delivery rooms and special procedures operating rooms (e.g., OB-GYN, ophthalmic operating rooms). These rooms are typically equipped with operating tables, sterile lights, anesthesia machines and various types of monitoring equipment. Institutions may wish to distinguish specific types of surgery or operating rooms through extension coding. Also includes rooms in veterinary facilities typically referred to as large animal surgery, small animal (includes poultry) surgery, bovine surgery, bull surgery, etc.

Limitations: Does not include the various surgery support rooms that are used as a direct extension of surgery activities (see 845). Also does not include rooms used for the minor invasive procedures (e.g., blood withdrawal, cardiac catheterization) of the diagnostic examination process (see 850).

845 Surgery Service

Definition: A room that directly serves a surgery room as an extension of the activities in that facility.

Description: Included are recovery rooms, labor rooms, special support equipment rooms (e.g., anesthesia, heart, lung, X-ray, etc.), dictation booths, scrub-up rooms, gown rooms, locker rooms, instrument cleanup and storage rooms, sterile supply storage rooms, patient (surgery preparation) cleaning rooms, monitor rooms, gas and gurney storage areas, postoperative and operating room repair rooms, clean and dirty linen areas, and animal holding rooms if these rooms directly serve the surgery facility.

Limitations: Storage and other support rooms that do not directly serve a Surgery (840) facility should be classified with the appropriate service room category. Rooms used for the direct implementation of surgical procedures are classified Surgery (840).
850 Treatment/Examination

Definition: A room used for diagnostic and therapeutic treatment.

Description: Included are rooms used for radiology, fluoroscopy, angiography, physical and occupational therapy, dialysis, body (e.g., CAT, MRI, ultrasound) scanning, cardiac catheterization, pulmonary function and vascular testing, EEG, ECG, EMC, EMR, linear acceleration, and dental examination and treatment. Also includes combined doctor’s office and treatment/examination rooms. In veterinary institutions, rooms commonly called isolation treatment, small or large animal treatment, small or large animal X-ray, swine treatment, etc., are included.

Limitations: Does not include rooms used for the more radically invasive treatment procedures of surgery (see 840). Treatment/Examination (850) diagnosis differs from Diagnostic Service Laboratory (860) testing and diagnosis in that the former requires the presence of the patient.

855 Treatment/Examination Service

Definition: A room that directly serves a treatment examination room as an extension of the activities in that facility.

Description: Included are dressing rooms, X-ray and film reading or viewing rooms, film processing rooms, dark rooms, work preparation areas, equipment and supply storage areas, sound proof rooms, patient dressing rooms, and clean and dirty linen rooms if these areas directly serve the primary activity treatment/examination facility. Also includes rooms in veterinary institutions commonly called animal holding, swine holding pen, etc., if these areas serve a treatment/examination area.

Limitations: Does not include service areas for diagnostic service laboratories (see 860, 865), which typically support the entire health care facility. Primary activity rooms that are used to deliver therapeutic and diagnostic treatment should be coded Treatment/Examination (850). Treatment or examination waiting rooms are classified as Public Waiting (880) facilities.

860 Diagnostic Service Laboratory

Definition: A room used to provide diagnostic support services to an entire health care facility.

Description: Includes pathology, pharmacy, autopsy, isotope rooms or labs, etc., providing such services as hematology, chemistry tissue, bacteriology, serology, blood bank and basal metabolism. Also includes areas commonly termed canine, feline, poultry, bovine or equine necropsy rooms in veterinary institutions.

800 - Health Care Facilities
Limitations: Laboratories used primarily for instructional purposes should be classified with the Laboratory Facilities (200) series. Rooms used for diagnostic and therapeutic examination or treatment of patients should be classified as Treatment/Examination (850) facilities.

865 Diagnostic Service Laboratory Support

Definition: A room that directly serves a diagnostic service laboratory as an extension of the activities in that facility.

Description: Included are cadaver storage rooms, morgues, autoclave and centrifuge rooms, warm and cold rooms, locker, scrub-up and gown rooms, special processing rooms, and supply and storage areas that directly serve one or more diagnostic service laboratories. Also includes carcass refrigerators and other areas with the above service functions in veterinary institutions.

Limitations: Does not include storage areas, dressing rooms, work preparation rooms and other areas that support a patient treatment or examination room (see 855).

870 Central Supplies

Definition: A room used centrally to store health care supplies in a health care facility.

Description: This classification, which serves a central storage or supply function similar to the Central Storage (730) classification, applies only to health care materials and supplies in a health care facility. Storage is relatively inactive in comparison to (usually smaller) standard service rooms. Included are pharmacy supply and storage rooms, dispensary areas and central linen storage rooms. Additional codes may be used by institutions that wish to differentiate among the specific materials being stored.

Limitations: Does not include central storage areas for materials or equipment which is not directly health care related (e.g., furniture, office equipment); such areas should be classified Central Storage (730). Linen closets that serve nurse stations and other limited scope service areas should be classified with the appropriate service code.

880 Public Waiting

Definition: A room used by the public to await admission, treatment or information within a health care facility.

Description: Included are lobby areas that are specifically configured and furnished for public waiting; physical boundaries should be assigned, as needed, to define nonassignable areas of entrance lobbies which simply serve a circulation function. Also includes patient waiting rooms, reception and visiting areas, viewing rooms and ward day rooms.
Limitations: Open lounges (see 650) and other service room lounges (e.g., patient lounge—see 815) should be classified appropriately. Only areas specifically assigned to public waiting, for admission, treatment or information, should be classified with this code.

890 Staff On-Call Facility

Definition: A room or quarters used by health care staff to rest or sleep while on-call to assigned duties within a health care facility.

Description: Includes areas or rooms used by doctors, nurses, emergency medical technicians, flight care crews, etc., to rest or sleep while on-call to specific duties within the facility.

Limitations: Staff on-call rooms or quarters differ from open and service area lounges (see 650) in that specific provisions are made for sleeping, and use is restricted to staff who typically work a long shift. Bedrooms for patients should be coded 810; student residence quarters should be classified with the Residential Facilities (900 series) codes.

895 Staff On-Call Facility Service

Definition: A room that directly serves a staff on-call room as an extension of the activities in that facility.

Description: Includes kitchens, baths, laundry rooms, lounges, closets, storage rooms, and other service areas that directly serve the on-call quarters.

Limitations: Does not include storage and other support rooms that serve patient bedrooms (see 815). Also excluded are central supply areas (see 870).
900 - Residential Facilities

General

Residential facilities include housing for students, faculty, staff, and visitors to the institution. Hotel or motel and other guest facilities are included in this series if they are owned or controlled by the institution and used for purposes associated with defined institutional missions (i.e., excluding commercial investment).

Note: Not all space in residential facilities is coded using the 900 series. Conventional primary activity and service codes, as with libraries, apply to specific areas. Included are Offices (310), Lounges (650), Study Rooms (410), dining areas (see 630), recreational rooms (see 670), and their corresponding service codes. Service rooms that typically appear in residential facilities are specified in the Sleep/Study Service (935) description.

910 Sleep/Study Without Toilet Or Bath

Definition: A residential room for one or more individuals typically furnished with bed(s), wardrobe(s), closet(s), desk(s), and chair(s), without an internally connected bath, toilet, or either.

Description: Includes single or multiple sleep/study rooms. A sleep/study facility may be a room for combined sleep/study, a room exclusively for sleeping, or a room for living and study. Connected closets are considered part of the room.

Limitations: Study rooms for general use, available and open to the dormitory residents at large, and not part of bedroom or sleeping room suites, should be classified as Study Room (410). Residential quarters equipped with internal cooking facilities are coded Apartment (950). Separate food preparation rooms serving sleep/study areas, including small kitchens used by the occupants, are coded Sleep/Study Service (935) unless there is an accompanying eating area (see 630) that the food preparation area directly serves. The appropriate service code of 635 would then be applied.

919 Toilet Or Bath

Definition: A toilet or bathroom intended only for the occupants of the residential facilities, rather than for the public.

Description: Includes common or shared bathroom facilities which may consist of full or half-bath, shower, or toilet and shower combinations, used by the residents and accessible from a corridor or other general circulation area.
Limitations: Does not include public rest rooms. Bathrooms internal to a sleep/study room (see 920), Apartment (950), or House (970) are included in those respective categories. Private rest room areas that serve offices are Office Service (315).

920 Sleep/Study With Toilet Or Bath

Definition: A residential room for one or more individuals, typically furnished with bed(s), wardrobe(s), closet(s), desk(s), and chair(s), with an internally connected bath or toilet.

Description: Includes single or multiple sleep/study rooms with bath facilities internal to the suite and not separately classified Toilet Or Bath (919). A sleep/study facility with toilet or bath may be a room for combined sleep/study, a room exclusively for sleeping, or a room for living and study, and includes connected closets. A sleep/study with toilet or bath facility, by definition, has a private toilet or bath that is accessible without having to go out to a hallway or other general circulation area. Suites may have a study and living room which is private to the residents of the suite area. These areas are included as part of the Sleep/Study With Toilet Or Bath (920) space.

Limitations: Study rooms for general use, available and open to the dormitory residents at large, and not part of bedroom or sleeping room suites, should be classified as Study Rooms (410). Residential quarters equipped with cooking facilities are coded as Apartment (950). Sleep/Study Rooms Without Toilet Or Bath (910) and their corresponding external Toilet Or Bath (919) rooms are coded separately.

935 Sleep/Study Service

Definition: A room that directly serves the occupants of sleep/study rooms.

Description: This is the service code for the 910 and 920 residential facility categories. Includes mail rooms, laundry and pressing rooms, linen closets, maid rooms, serving rooms, trunk storage rooms, and telephone rooms that serve the occupants of sleep/study facilities. Kitchen or food preparation rooms that serve sleeping areas and do not serve an accompanying eating or dining area (see 630) are also classified as Sleep/Study Service (935).

Limitations: Does not include Offices (310), Lounges (650), Study Rooms (410), eating or dining areas (see 630), toilet/bath areas for occupants of Sleep/Study rooms (see 919), Recreation (670) areas or Meeting Rooms (680) in any residential facility, including institutionally controlled hotels or motels.

950 Apartment

Definition: A complete living unit, with private cooking facilities, that is not a separate structure.
Description: This is the basic module or group of rooms designed as a complete housekeeping unit (i.e., it contains bedroom(s), living room(s), kitchen, and toilet facilities). It is not intended that individual rooms be specifically identified within the apartment, but only that the total interior space be included. Includes apartments provided for faculty, staff, students, or visiting guests. Apartments need not be located in a residential building. A duplex unit should be classified as an Apartment (950) because it is not a separate, freestanding structure.

Limitations: Does not include single, freestanding structures (see 970) or any residential units that do not contain private cooking facilities (see 910, 920).

955 Apartment Service

Definition: A room or area that directly serves an apartment or group of apartments as an extension of the activities in that facility.

Description: Includes laundry rooms, mail rooms, linen closets, maintenance, housekeeping or security rooms, trunk storage rooms, telephone rooms, and weight or exercise rooms that serve apartment facilities. Apartment service facilities may be located in a separate building that serves an apartment complex. Service rooms (laundry, storage, etc.) that are internal to an apartment unit are included in the Apartment (950) space.

Limitations: Does not include service rooms (laundry, mail, trunk, etc.) that directly serve residential facilities which have no internal cooking facilities (see 910, 920, 935). This category also excludes service rooms within a separate, freestanding residential unit (see 970).

970 House

Definition: A complete living unit, with private cooking facilities, that is a separate structure. Should include fraternities and sorority houses only if owned or controlled by the institution (See Question 7 in Chapter 6).

Description: This is the basic module or group of rooms designed as a complete housekeeping unit (i.e., it contains bedroom(s), living room(s), kitchen, and toilet facilities). It is not intended that individual rooms be specifically identified within the structure, but only that the total interior area be accounted for. Includes houses provided for faculty, staff, or students. Should include fraternities and sorority houses only if owned by the institution (see Question 7 in Chapter 6).

Limitations: Houses and other residential properties that are owned or controlled by an institution as commercial investments, and that do not serve the institution’s primary missions, are often excluded from the formally coded facilities inventory. Does not include complete living units that are part of a larger structure (see 950). Houses used as office areas should be classified with the Office Facilities (300 series) codes.
Student Union

Definition: A room or area within an auxiliary building used for student activities that directly serves student activities for other than academic instruction, recreation, residence, dining, or athletics, including service areas.

Description: Includes student meeting rooms, television rooms, student lounges, student government offices, student newspaper offices, radio broadcast rooms, multi-purpose rooms, movie theaters and club rooms, and assembly areas used primarily for entertainment or student activities.

Limitations: Does not include Offices (310), Recreation (670), Public Meeting Rooms (680), Lounges (650), Merchandising (660), and assembly areas used primarily for instruction (610).
General

Unclassified facilities include those assignable areas that are inactive or unassigned; in the process of being altered, renovated, or converted; or in an unfinished state.

050 Inactive Areas

Definition: Rooms available for assignment to an organizational unit or activity but unassigned at the time of the inventory.

Limitations: Rooms being modified or not completed at the time of the inventory are classified as Alteration or Conversion Area (060) or Unfinished Area (070).

060 Alteration Or Conversion Area

Definition: Rooms temporarily out of use because they are being altered, remodeled, or rehabilitated at the time of the inventory.

Limitations: Rooms inactive or not completed at the time of the inventory are classified as Inactive Area (050) and Unfinished Area (070), respectively.

070 Unfinished

Definition: All potentially assignable areas in new buildings, shell space, or additions to existing buildings not completely finished at the time of the inventory.

Limitations: Intended only for the unfinished part or shell area of a building or addition; the parts that are in use should be appropriately classified.
Nonassignable Area

The following categories are included to complete the list of room use categories for institutions that choose to include nonassignable space in the facilities room inventory. Institutions may wish to include these areas and apply a different coding convention (e.g., numeric codes). Definitions of these categories of nonassignable space are provided in Chapter 4. As with all other room use classifications, institutions also may wish to track nonassignable areas with special physical characteristics, functions or equipment (e.g., elevators, various types of public rest rooms, handicapped equipped rooms, janitorial sink closets, various circulation areas and mechanical rooms, etc.) through the development and application of additional codes.

WWW  Circulation Area
XXX  Building Service Area
YYY  Mechanical Area

Structural Area

The remaining area within the gross square footage of a building is structural or “construction” area, which cannot be occupied or put to use. (See Chapter 4 definitions of building areas.) Institutions may wish to include this area using a ZZZ code or some other appropriate designation for space which is neither assignable nor nonassignable.

ZZZ  Structural Area
APPENDIX 2

TAXONOMY OF FUNCTIONS

This Taxonomy is adapted from the Financial Accounting and Reporting Manual for Higher Education and the earlier Management Reporting and Accounting for Colleges, Second Edition (1988) by the National Association of College and University Business Officers (NACUBO). While the taxonomy was originally designed for financial reporting, it may be readily adapted to facilities reporting through limited modifications. For example, the category of Scholarships And Fellowships would not be used as a function in a facilities inventory. Categories for Independent Operations and Hospitals have been added to the taxonomy because they are necessary categories for facilities reporting. The following represents a brief synopsis of a possible adaptation of this taxonomy.

Definitions Of Functional Categories

1.0 Instruction. This category includes all activities that are part of an institution’s instruction program. Credit and noncredit courses, for academic, vocational, and technical instruction, for remedial and tutorial instruction, and for regular, special, and extension sessions should be included.

1.1 General Academic Instruction: Includes formally organized and/or separate instructional activities that are: 1) carried out during the academic year, 2) associated with academic disciplines, and 3) offered for credit as part of a formal postsecondary education degree or certificate program.

1.2 Vocational/Technical Instruction: Formally organized and/or separate instructional activities that are 1) carried out during the academic year, 2) usually associated with academic disciplines, and 3) offered for credit as part of a formal postsecondary education degree or certificate.

1.3 Special Session Instruction: Includes formally organized and/or separately budgeted instructional activities (offered either for credit or not for credit) that are carried out during a summer session, interim session, or other period not common with the institution’s regular term.

1.4 Community Education: Includes formally organized and/or separate instructional activities that do not generally result in credit toward any formal postsecondary degree or certificate.

1.5 Preparatory/Remedial Instruction: Includes formally organized and/or separate instructional activities that give students the basic knowledge and skills required by
the institution before they can undertake formal academic coursework leading to a postsecondary degree or certificate.

2.0 Research. This category should include all activities specifically organized to produce research outcomes, whether commissioned by an agency external to the institution or separately by an organizational unit within the institution.

2.1 Institutions and Research Centers
2.2 Individual and Project Research

3.0 Public Service. This category should include activities that are established primarily to provide noninstructional services beneficial to individuals and groups external to the institution.

3.1 Community Services
3.2 Cooperative Extension Services
3.3 Public Broadcasting Services

4.0 Academic Support. This category should include support services for the institution’s primary missions—instruction, research, and public service.

4.1 Libraries
4.2 Museums and Galleries
4.3 Educational Media Services
4.4 Academic Computing Services
4.5 Ancillary Support
4.6 Academic Administration
4.7 Academic Personnel Development
4.8 Course and Curriculum Development

5.0 Student Services. This category should include offices of admissions and registrar and those activities whose primary purpose is to contribute to the student’s emotional and physical well-being and to his or her intellectual, cultural, and social development outside the context of the formal instruction program.

96  APPENDIX 2
5.1 Student Services Administration
5.2 Social and Cultural Development
5.3 Counseling and Career Guidance
5.4 Financial Aid Administration
5.5 Student Admissions
5.6 Student Records
5.7 Student Health Services

6.0 Institutional Support. This category should include 1) central executive-level activities concerned with management and long-range planning of the entire institution, such as the governing board, planning and programming, and legal services; 2) fiscal operations, including the investment office; 3) administrative data processing; 4) space management; 5) employee personnel and records; 6) logistical activities that provide procurement, storerooms, safety, security, printing, and transportation services to the institution; 7) support services to faculty and staff that are not operated as auxiliary enterprises; and 8) activities concerned with community and alumni relations, including development and fund raising.

6.1 Executive Management
6.2 Fiscal Operations
6.3 General Administrative and Logistical Services
6.4 Administrative Computing Services
6.5 Public Relations/Development

7.0 Operation And Maintenance Of Plant. This category should include the operation and maintenance of physical plants for all institutional activities, including auxiliary enterprises, and independent operations.

7.1 Physical Plant Administration
7.2 Building Maintenance
7.3 Custodial Services

Taxonomy of Functions 97
7.4 Utilities
7.5 Landscape and Grounds
7.6 Major Repairs and Renovations

8.0 This category includes Scholarships and Fellowships but is not used in facilities.

9.0 Auxiliary Enterprises. An auxiliary enterprise is an entity that exists to furnish goods or services to students, faculty, or staff, and that charges a fee directly related to, although not necessarily equal to, the cost of the goods or services.

9.1 Auxiliary Enterprises—Student
9.2 Auxiliary Enterprises—Faculty/Staff
9.3 Intercollegiate Athletics

10.0 Independent Operations. This category includes those operations that are independent of, or unrelated to, but which may enhance the primary missions of the institution.

11.0 Hospitals. This category includes patient care operations of the hospital, including nursing and other professional services, general services, administrative services, fiscal services, and physical plant operations and institutional support.
### CIP DISCIPLINE CATEGORY

<table>
<thead>
<tr>
<th>CIP Code</th>
<th>CIP Discipline Category</th>
<th>250/255 Modules</th>
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<tbody>
<tr>
<td>0300</td>
<td>Renew Natural Resources</td>
<td>A</td>
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<tr>
<td>0400</td>
<td>Arch and Environmental Design</td>
<td>A</td>
</tr>
<tr>
<td>0500</td>
<td>Area Ethnic Studies</td>
<td>B</td>
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<tr>
<td>0800</td>
<td>Marketing and Distribution</td>
<td>B</td>
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<tr>
<td>0900</td>
<td>Communication</td>
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<td>1100</td>
<td>Computer and Info Sciences</td>
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<tr>
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<tr>
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<tr>
<td>3000</td>
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<tr>
<td>3200</td>
<td>Basic Skill</td>
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<td>3400</td>
<td>Health Related Activities</td>
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<tr>
<td>5200</td>
<td>Business Management and Administrative Services</td>
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</tr>
</tbody>
</table>

Modules A and B apply to Research Laboratory Space Allocation only.
# Functional Use (SCUBS DATA)

## 1.0 Instructional Data
- 1.1 General Academic Instruction
- 1.2 Community Education
- 1.3 Preparatory/Remedial Instruction

## 2.0 Organized Research
- 2.1 Individual and Project Research

## 3.0 Public Service
- 3.1 Community Service
- 3.2 Public Broadcasting Service
- 3.3 Direct Patient Care

## 4.0 Academic Support
- 4.1 Libraries
- 4.2 Museums and Galleries
- 4.3 Educational Media Services
- 4.4 Academic Computing
- 4.5 Ancillary Support
- 4.6 Academic Administration
- 4.7 Course and Curriculum Development
- 4.8 Academic Personnel Development

## 5.0 Student Service
- 5.1 Student Service Administration
- 5.2 Social and Cultural Development
- 5.3 Counseling and Career Guidance
- 5.4 Financial Aid Administration
- 5.5 Student Recruitment and Admissions

## 5.6 Student Records
## 5.7 Student Health/Medical Services

## 6.0 Institutional Support
- 6.1 Executive Management
- 6.2 Financial Management and Operations
- 6.3 General Administration and Logistics
- 6.4 Administrative Computing
- 6.5 Public Relations/Development

## 7.0 Physical Plant Operations
- 7.1 Physical Plant Administration
- 7.2 Building Maintenance
- 7.3 Custodial Services
- 7.4 Utilities
- 7.5 Landscape and Ground Maintenance
- 7.6 Major Repairs and Renovations
- 7.7 Major Construction and Purchase

## 8.0 Scholarships and Fellowships
- 8.1 Scholarships and Fellowships

## 9.0 Auxiliary Enterprises
- 9.1 Auxiliary Enterprises
- 9.2 Student Health/Medical Services
- 9.3 Major Repairs and Renovations
- 9.4 New Construction
- 9.5 Auxiliary Enterprises—Other
# Building Condition

The condition of the facility must be placed in one of the following categories:

<table>
<thead>
<tr>
<th>Category Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td><strong>Satisfactory</strong></td>
</tr>
<tr>
<td></td>
<td>Suitable for continued use with normal maintenance.</td>
</tr>
<tr>
<td>#2</td>
<td><strong>Remodeling - A</strong></td>
</tr>
<tr>
<td></td>
<td>Requires restoration to present acceptable standards without major room use changes, alterations, or modernization.</td>
</tr>
<tr>
<td></td>
<td>Last restoration to acceptable standards was 12 to 17 years.</td>
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<tr>
<td>#3</td>
<td><strong>Remodeling - B</strong></td>
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<td>Requires major updating or modernization of the building.</td>
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<td>Last major updating or modernization was 18 to 34 years.</td>
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<tr>
<td>#4</td>
<td><strong>Remodeling - C</strong></td>
</tr>
<tr>
<td></td>
<td>Requires major remodeling of the building.</td>
</tr>
<tr>
<td></td>
<td>Last major remodeling was greater than 34 years.</td>
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<tr>
<td>#5</td>
<td><strong>Demolition</strong></td>
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<tr>
<td></td>
<td>Should be demolished or abandoned because the building is unsafe, structurally unsound, or not cost effective to remodel.</td>
</tr>
<tr>
<td>#6</td>
<td><strong>Termination</strong></td>
</tr>
<tr>
<td></td>
<td>Planned termination or relinquishment of occupancy for reasons other than unsafeness or structural unsoundness, such as abandonment of temporary units or vacating of leased space.</td>
</tr>
</tbody>
</table>
TYPE OF CONSTRUCTION—BOCA Code Definitions

The following definitions are taken from *The BOCA National Building Code/1990.*

**SECTION 402.0 TYPE 1 CONSTRUCTION**

402.1 General: Buildings and structures Type 1 construction are those in which the walls, partitions, structural elements, floors, ceilings, roofs and the exits are constructed of approved noncombustible materials and protected to afford the fireresistance rating specified in Table 401, except as otherwise specifically regulated in Article 9. Buildings of Type 1 construction shall be further classified as Type 1A or 1B. Fireretardant-treated wood shall only be used as specified in Table 401 and Section 1702.4.

**SECTION 403.0 TYPE 2 CONSTRUCTION**

403.1 General: Buildings and structures of Type 2 construction are those in which the walls, partitions, structural elements, floors, ceilings, roofs and exits are constructed of approved noncombustible materials and protected to afford the fireresistance rating specified in Table 401, except as otherwise specifically regulated in Article 9. Buildings of Type 2 construction shall be further classified as Type 2A, 2B or 2C. Fireretardant-treated wood shall only be used as specified in Table 401 and Section 1702.4.

**SECTION 404.0 TYPE 3 CONSTRUCTION**

404.1 General: Buildings and structures of Type 3 construction are those in which: the exterior, fire walls and party walls are constructed of masonry or other approved noncombustible materials of the required fireresistance rating and structural properties; the floors, roofs and interior framing are wholly or partly constructed of wood, metal or other approved construction; the fire walls and party walls are ground supported, except that girders and their supports carrying masonry walls shall be protected to afford the same fireresistance rating as the walls supported thereon; and all structural elements shall have the required fireresistance rating specified in Table 401. Buildings of Type 3 construction shall be further classified as Type 3A or 3B.

404.2 Type 3A: Structures of Type 3A construction shall include all buildings of Type 3 construction in which the interior structural elements are wholly or partly constructed of protected wood not less than 2 inches nominal in thickness, of other approved protected combustible materials, or of metal protected and insulated to afford the fireresistance rating specified in Table 401.

404.3 Type 3B: Structures of Type 3B construction shall include all buildings of Type 3 construction in which the interior structural members are constructed of wood not less than 2 inches nominal in thickness or consist of combustible or noncombustible materials protected with less than a 1-hour fireresistance rating.
SECTION 405.0 TYPE 4 CONSTRUCTION

405.1 General: Buildings and structures of Type 4 construction are those in which the exterior walls are constructed of noncombustible materials having a fire-resistance rating not less than that specified in Table 401 and the interior structural members are of solid or laminated wood without concealed spaces. The elements of Type 4 construction shall comply with the provisions of this section (see Section 1703.1 for construction details).

405.2 Columns: Wood columns shall be sawn or glued laminated and shall not be less than 8 inches nominal in any dimension when supporting floor loads not less than 6 inches nominal in width, and not less than 8 inches nominal in depth when supporting roof and ceiling loads only. Columns shall be continuous or superimposed and connected in an approved manner.

405.3 Floor framing: Beams and girders of wood shall be constructed of sawn or glued-laminated timber and shall not be less than 6 inches nominal in width, and not less than 10 inches nominal in depth. Framed sawn or glued-laminated timber arches which spring from the floor line and support floor loads shall not be less than 8 inches nominal in any dimension. Framed timber trusses supporting floor loads shall have members of not less than 8 inches nominal in any dimension.

405.4 Roof framing: Framed or glued-laminated arches for roof construction which spring from the floor line or from grade and do not support floor loads shall have members not less than 4 inches nominal in width and not less than 8 inches nominal in depth for the lower half of the height, and not less than 6 inches nominal in depth for the upper half. Framed or glued-laminated arches for roof construction which spring from the top of walls or wall abutments, framed timber trusses and other roof framing which does not support floor loads shall have members not less than 4 inches nominal in width and not less than 6 inches nominal in depth. Spaced members shall be composed of two or more pieces not less than 3 inches nominal in thickness when blocked solidly throughout their intervening spaces or when such spaces are tightly closed by a continuous wood cover plate of not less that 2 inches nominal in thickness, secured to the underside of the members. Splice plates shall not be less than 3 inches nominal in thickness. Where equipped with an automatic sprinkler system installed in accordance with Section 1004.2.1, 1004.2.2 or 1005.0 under the roof deck, framing members shall not be less than 3 inches nominal in width.

405.5 Flooring: Floors shall be without concealed spaces and shall be constructed of sawn, glued-laminated, splined or tongue-and-groove planks not less than 3 inches nominal in thickness and covered with a 1-inch nominal dimension tongue-and-groove flooring, laid crosswise or diagonally, or 15/32-inch plywood or ½-inch particleboard; or of planks not less than 4 inches nominal in width that are set on edge close together and well spiked, and covered with 1-inch nominal dimension flooring, or 15/32-inch plywood, or ½-inch particleboard. The lumber shall be laid so that no continuous line of joints will occur except at points of support. Floors shall not extend closer than ½ inch (13 mm) to walls.

Such ½-inch (13 mm) spaces shall be covered by a molding fastened to the wall either above or below the floor and arranged such that the molding will not obstruct the swelling or shrinkage movements of the floor, or, as an alternative, corbeling of masonry walls under floor shall be used in place of molding.

405.6 Roofs: Roofs shall be without concealed spaces and roof decks shall be constructed of: sawn, glued-laminated, splined or tongue-and-groove planks not less than 2 inches nominal in
thickness; 1 1/8-inch-thick interior plywood (exterior glue); or of planks not less than 3 inches nominal in width that are set on edge close together and laid as required for floors. Other types of decking shall only be used if such decking provides equivalent fireresistance ratings and structural properties.

405.7 Walls: Walls shall be of solid wood construction formed by not less than two layers of 1-inch matched boards, laminated construction 4 inches in thickness or of 1-hour fireresistance rated construction.

405.8 Exterior structural members: Wood columns and arches conforming to heavy timber sizes shall only be used externally where a fire separation distance of 20 feet (6096 mm) or more is provided.

SECTION 406.0 TYPE 5 CONSTRUCTION

406.1 General: Buildings and structures of Type 5 construction are those in which the exterior walls, bearing walls, partitions, floors and roofs are constructed of any materials permitted by this code and in which the structural elements have the required fireresistance ratings specified in Table 401. Buildings of Type 5 construction shall be further classified as Type 5A or 5B.
Replacement Cost/Estimated Construction/Renovation Costs (FY 2003-04)
The replacement cost of each facility is determined by adding the assignable net square feet, times the cost for each room category, times the gross-to-net ratio*, times area cost factor**. The construction or facility renovation costs are determined by multiplying the square footage of the structure to be built or renovated, times the applicable square footage by category, times the average cost factor, plus site development and special equipment costs. The costs shown shall be used in the absence of detailed cost estimates from a feasibility study or from costs incurred on similar projects bid in the area. The costs shown for renovation are for a complete life cycle renewal building renovation, but do not include unusual demolition or hazardous material removal and disposal. Partial renovation projects or projects involving mid-life repair should use an appropriate smaller square foot or other unit cost.

<table>
<thead>
<tr>
<th>Pennsylvania State System of Higher Education</th>
<th>Square Foot Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Construction</td>
<td>Renovation****</td>
</tr>
<tr>
<td>000 Unclassified</td>
<td>$150</td>
</tr>
<tr>
<td>110-115 Classrooms</td>
<td>$153</td>
</tr>
<tr>
<td>210-220 Teaching Laboratory</td>
<td>$190</td>
</tr>
<tr>
<td>250-255 Research Laboratory</td>
<td>$225</td>
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<tr>
<td>300/360 Office/Conference</td>
<td>$132</td>
</tr>
<tr>
<td>400 Library</td>
<td>$150</td>
</tr>
<tr>
<td>510 Armory</td>
<td>$191</td>
</tr>
<tr>
<td>520 Athletic/Physical (Indoor)</td>
<td>$149</td>
</tr>
<tr>
<td>525 Athletic/Physical (Outdoor)</td>
<td>$92</td>
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<tr>
<td>530 Media production</td>
<td>$149</td>
</tr>
<tr>
<td>540 Clinic</td>
<td>$168</td>
</tr>
<tr>
<td>550 Demonstration</td>
<td>$153</td>
</tr>
<tr>
<td>560 Field Buildings</td>
<td>$79</td>
</tr>
<tr>
<td>570-575 Animal Quarters</td>
<td>$217</td>
</tr>
<tr>
<td>580-585 Greenhouse</td>
<td>$115</td>
</tr>
<tr>
<td>610-620 Assembly</td>
<td>$153</td>
</tr>
<tr>
<td>630-635 Food Facility</td>
<td>$195</td>
</tr>
<tr>
<td>640-645 Day Care</td>
<td>$146</td>
</tr>
<tr>
<td>650-660 Lounge/Merchandising</td>
<td>$112</td>
</tr>
<tr>
<td>670-675 Recreational</td>
<td>$139</td>
</tr>
<tr>
<td>680-685 Meeting Rooms</td>
<td>$144</td>
</tr>
<tr>
<td>690 Locker Rooms</td>
<td>$139</td>
</tr>
<tr>
<td>700 Support Facility</td>
<td>$97</td>
</tr>
<tr>
<td>710/715 Central Computers</td>
<td>$200</td>
</tr>
<tr>
<td>720/730/740/750 Shops Storage Vehicles</td>
<td>$114</td>
</tr>
<tr>
<td>770 Utility Production</td>
<td>$300</td>
</tr>
<tr>
<td>800 Health Care</td>
<td>$190</td>
</tr>
<tr>
<td>900 Residence Halls</td>
<td>$152</td>
</tr>
<tr>
<td>950 Apartment</td>
<td>$142</td>
</tr>
<tr>
<td>980 Student Unions</td>
<td>$149</td>
</tr>
</tbody>
</table>

* Gross Square Foot Factor = \( \frac{\text{Assignable + Structural + Nonassignable}}{\text{Assignable}} \)

** The area cost factor will be published by January 1 (FY 2003-04 attached).

*** See cost for space used (e.g., Classroom 110-115; Teaching Laboratory 210-220; Research Laboratory 250-255).

**** Costs for renovation of Historic facilities may be increased by 10-25%.
## Area Cost Factors for FY 2003-04

Replacement Cost Calculations

<table>
<thead>
<tr>
<th>University</th>
<th>Cost Factor</th>
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<tbody>
<tr>
<td>Bloomsburg</td>
<td>.93</td>
</tr>
<tr>
<td>California</td>
<td>.97</td>
</tr>
<tr>
<td>Cheyney</td>
<td>1.06</td>
</tr>
<tr>
<td>Clarion</td>
<td>.98</td>
</tr>
<tr>
<td>East Stroudsburg</td>
<td>.98</td>
</tr>
<tr>
<td>Edinboro</td>
<td>.96</td>
</tr>
<tr>
<td>Indiana</td>
<td>.96</td>
</tr>
<tr>
<td>Kutztown</td>
<td>.96</td>
</tr>
<tr>
<td>Lock Haven</td>
<td>.88</td>
</tr>
<tr>
<td>Mansfield</td>
<td>.93</td>
</tr>
<tr>
<td>Millersville</td>
<td>.92</td>
</tr>
<tr>
<td>Shippensburg</td>
<td>.93</td>
</tr>
<tr>
<td>Slippery Rock</td>
<td>.97</td>
</tr>
<tr>
<td>West Chester</td>
<td>1.06</td>
</tr>
<tr>
<td>Dixon University Center</td>
<td>.95</td>
</tr>
</tbody>
</table>

Source: R.S. Means *Square Foot Cost 2003*
Appendix 10: Miscellaneous Information

Stair Tower Calculations
Stairwells are to be measured at each floor; the landing is part of the stairwell.

Correction to Manual Pages 106 and 107
On page 106, Drawing #1 should be “assignable area.”
On page 107, Drawing #2 should be “gross area.”
APPENDIX 11: SUPPLEMENTS

SUPPLEMENT #1.......................................................CIP Discipline Category Codes
SUPPLEMENT #2....................................................... Functional Use Codes
SUPPLEMENT #3.........................................................Room Use Codes
SUPPLEMENT #4.........................................................Room Component Codes
SUPPLEMENT #5.........................................................Building Condition Codes
SUPPLEMENT #6.................................................... Type of Construction Codes
SUPPLEMENT #7.....Replacement Cost/Estimated Construction/Renovation Costs
Area Cost Factors Replacement Cost Calculation
APPENDIX 12: FORMS

Facilities Management Building Data Form

Facilities Management Room Data Component Form
<table>
<thead>
<tr>
<th>University:</th>
<th>Site:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Building:</td>
<td>Building No.:</td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Building Type:</th>
<th>Educational/General</th>
<th>Auxiliary</th>
<th>Both</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Replacement Cost:</th>
<th>Year of Construction:</th>
</tr>
</thead>
<tbody>
<tr>
<td>or Year of Acquisition:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year of Last Renovation:</th>
<th>Building Function (Supplement #2, pg. 14 of manual):</th>
</tr>
</thead>
</table>

| Disabled Access to Building (at option of university): | |
|--------------------------------------------------------| |

| Building Condition (Supplement #5): | |
|-------------------------------------| |

| Type of Construction (optional—Supplement #6): | |
|-----------------------------------------------| |

<table>
<thead>
<tr>
<th>Landmark Status:</th>
<th>Yes</th>
<th>No</th>
<th>Eligible</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Original Building Cost:</th>
<th>Cost of Last Major Renovation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>or Value at Acquisition:</td>
<td></td>
</tr>
</tbody>
</table>

**Data to be Provided by Survey Team**

<table>
<thead>
<tr>
<th>Gross Area:</th>
<th>Assignable Area:</th>
<th>Number of Floors:</th>
</tr>
</thead>
</table>

*Additional detail can be found in Chapters 4 and 5 of manual.
Facilities Management Data Component Form

<table>
<thead>
<tr>
<th>University:</th>
<th>Date:</th>
<th>Page Number:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Building Name:</th>
<th>Floor Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Number:</td>
<td>Room Number:</td>
</tr>
<tr>
<td>Room Use Code (Supplement #3):</td>
<td></td>
</tr>
<tr>
<td>Department:</td>
<td>Functional Use Code (Supplement #2):</td>
</tr>
<tr>
<td>Disabled Access:</td>
<td>Yes _____ No _____</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Floor Area:</th>
<th>CHECK ONE</th>
<th>Assignable Area:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling Height:</td>
<td>Nonassigned (Sup. #3)</td>
<td>Cir:</td>
</tr>
<tr>
<td>Number of Occupants:</td>
<td>Bldg. Sys.:</td>
<td>Stru:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component Number</th>
<th>Quantity</th>
<th>Description</th>
<th>Evaluation</th>
</tr>
</thead>
</table>

Notes: Data in unshaded areas to be provided by survey team.
Evaluation scale—1 (good) to 5 (replace).
*Differs from the drawings.
## Facilities Management Building Data *

### Change of Use

<table>
<thead>
<tr>
<th>University:</th>
<th>Site:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Building:</td>
<td>Building No.:</td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Building Type:</th>
<th>Educational/General</th>
<th>Auxiliary</th>
<th>Both</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ownership:</th>
<th>University:</th>
<th>Commonwealth:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Replacement Cost:</th>
<th>Year of Construction:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year of Last Renovation:</th>
<th>Building Function (Supplement #2, pg. 14 of manual):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disabled Access to Building (at option of university):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Building Condition (Supplement #5):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Construction (optional—Supplement #6):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Landmark Status:</th>
<th>Yes _______</th>
<th>No _______</th>
<th>Eligible _______</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Original Building Cost:</th>
<th>Cost of Last Major Renovation:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data to be Provided by Survey Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Area: Assignable Area: Number of Floors:</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Authority to convert from auxiliary to Education/General, or vice versa.

Date: ________________ Signature: ____________________________________________

Date revision entered into database: ____________

*Additional details can be found in Chapters 4 and 5 of manual.