Space Management and Usage Guide

TEXAS TECH UNIVERSITY
Operations Division Planning & Administration™
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# TTU Space Management Guide

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1 Principles/Tenants

The following tenets of space management at Texas Tech University provide a framework to guide decision making, direct discussions, and ensure a collaborative approach to the process of managing TTU’s capital assets:

1. **All space at Texas Tech University belongs to the university and the State of Texas.** While individual units are responsible for being good stewards of the space they are assigned, ultimately the space belongs to TTU and the State.

2. **Space and the use of space should be treated with the same care and control as that given to financial assets.** Treating space like money facilitates a clear conceptualization of the importance of proper accountability of not only existence, but also use.

3. **All TTU space will be managed to ensure effective and efficient utilization as well as an equitable allocation and reallocation based on measured need.** While there are numerous qualitative considerations, objective analysis serves as the foundation for all decisions regarding space management issues.

4. **All space data, analysis, and reports are in the public domain and available for inspection.** Transparency of data, decisions, and the space management process is paramount.

5. **Space should be used effectively and efficiently.** Efficient use should be rewarded, while inefficiencies should carry a cost. Since the quantity of infrastructure support funding is based on activity, increased efficiency results in increased quality of facilities.

6. **Space standards are applied uniformly for comparative analysis.** The THECB Space Model determines the amount of space an institution should have, based on various factors. The modeled amount of space is what determines the formula amount of infrastructure support funding, and supports a large portion of the Higher Education Assistance Fund (HEAF) allocation. Any discussion regarding space must be informed by the impacts on the space model. This will also serve as the vehicle for inter-university comparison.

7. **Allocation of increased square footage must be consistent with a demonstrated campus-wide need.** Although individual units have a large amount of autonomy, campus space follows a zero-sum game pattern. Increases to one unit involve decreases to another, unless it is a new construction situation. Even then, it is critical to consider the entire campus’ space need(s), regardless of source of funding, individual need, or merit of other considerations.

8. **Allocation of space does not imply permanence.** Rather, it is a commitment based upon continued program justification and in consideration of the campus-wide response to ever changing program priorities.
2 TTU Facilities Information Uses

- Emergency Action Plan (EAP) Development/Maintenance
  - Floor plans are used to create emergency evacuation plans and identify hazards.
  - Facilities information is used to identify disaster impact areas, uses, organizational allocations, and develop failover strategies.
- Education & General (E&G) Determination
- Decision Support System for TTU Space Decisions at multiple levels
  - Campus
  - Building
  - Departmental
- Responsibility Center Management (RCM) – Space Charges
- Telecommunications
- 911 Services
- Physical Plant
  - Work Order System
  - Maintenance
  - Maintenance Planning
  - Utility Planning
- EH&S
  - AIMS System
  - Campus Safety
  - Chemical Bar Code
- Course Scheduling
- Property Inventory
- Property Insurance
- Communication Services
- Risk Management

3 State Reporting

3.1 Texas Higher Education Coordinating Board (THECB) Audit Objectives

The Texas Education Code requires the Board to periodically conduct a comprehensive audit of all educational and general facilities on the campuses of public senior colleges and universities. The objectives of the audit are to determine whether selected institutions of higher education:

1. Are accurately reporting their facilities data to the Board,
2. Have control systems in place over their facilities development and management programs,
3. Have followed the Board rules and received approval by the Board and the institutional governing board for facilities projects, and
4. Approved facilities projects have been completed as specified in the request.
3.2 THECB Audit Sample

The sample will be verified for accuracy for the following goals:

1. Rooms are identified by a unique alphabetic or numeric code and are numbered;
   a. Room numbers must match other Coordinating Board Manual (CBM) reports.
2. Space Use codes accurately reflect actual use;
3. Functional Category codes accurately reflect actual use;
4. Classification of Instructional Programs (CIP) codes accurately reflect actual use;
5. Prorated use accurately reflects the time used for each function;
6. Reported room area
   a. Total square footage is accurate and verifiable;
   b. Number of rooms with a 10% or more variance in square footage; and
7. Inventory control systems are in place and in use. Such systems include:
   a. Formal processes that are efficient, effective, and enforced;
   b. Reporting mechanisms to provide for feedback to and from data input to executive management are effective;
   c. Changes (renovations, conversions, etc.) are reflected in the inventory data in a timely and accurate manner; and
   d. Checks to ensure data between various internal reporting systems to and from external entities are compatible and reconcilable.

3.3 State Property Accounting (SPA)

Planning & Administration is responsible for tracking and verifying expenditure coding, and reporting the following State Property Accounting (SPA) information.

- Land and Land Improvements
- Buildings and Building Improvements
- Construction in Progress
- Facilities and Other Improvements

SPA information that is collected directly affects the Facilities Inventory and can be used on the front-end analysis of building renovations and new construction. In order to create a cradle-to-grave process Operations Division Planning and Administration (ODPA) will be required to track renovations and new construction from inception to completion. An added benefit will be an increase in Facilities Inventory accuracy.
3.4 THECB Space Usage Efficiency (SUE)

SUE scores measure teaching space efficiency and can be used as a global assessment mechanism for construction projects. Scoring is dependent upon accurate teaching space coding.

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<thead>
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<th>Score (weight = 8)</th>
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<tr>
<td>&lt; 25</td>
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</table>

3.5 THECB Campus Condition Index (CCI)

CCI is an advanced Deferred Maintenance comparison tool that can be used to monitor and prioritize maintenance projects by building. CCI depends on accurate facilities inventory information to accurately calculate building replacement values.

4 National Science Foundation (NSF) Reporting

Operations Division Planning & Administration has been assigned the responsibility of reporting research space information to the NSF every 2 years. Accurate NSF reporting is important and data is used by several publications for national comparisons.

5 Facilities Information Levels

5.1 Campus

A campus can be made up of land or any combination of land, buildings, infrastructure, and structures.

5.2 Building

The THECB defines a building as a roofed structure with at least two walls for permanent or temporary shelter for persons, animals, plants, equipment, or supplies. It is attached to a foundation, roofed, serviced by a utility (exclusive of lighting), and is a source of maintenance and repair activities.
5.3 Organization Footprint

Organization Footprint is a collection of multiple rooms that fall under the direct control of an organization.

*Notification Trigger 1.1: If an organization needs to move beyond their current organization footprint or if space is given to a different organization.*

5.4 Room

A room is a space normally enclosed on all sides, including alcoves and recesses. A room must have at least a six-foot, six inch clear ceiling height. Covered play areas and covered walkways are not considered rooms.

*Notification Trigger 1.1: If any of the walls of a Room are moved or if a new door is added.*

6 Facilities Categories

6.1 Unassigned Space

This is the sum of building custodial service and mechanical areas, all of which are not assigned directly to support programs. Public restrooms, shell space, or space mothballed/permanently incapable of use is also unassigned space. Unassigned space is determined by room type and room use data fields.

6.2 Teaching Space

Teaching space is comprised of classrooms (type 100 rooms); class labs, special class labs, and self-study labs (type 210-235 rooms); physical education, demonstration, audiovisual, and animal quarters (type 500 rooms); and assembly, exhibition, lounge, meeting rooms, and locker rooms (type 600 rooms).

6.3 Research Space

Research space includes all type 250 and 255 rooms, which are non-class (research) laboratories and service rooms.
6.4 Office Space
Office space includes all type 300 rooms, which are offices, conference rooms and associated service areas. Type 300 rooms reported with a 41 (library) usage code used in the library factor formula are omitted from the office space calculation to eliminate duplication.

6.5 Library Space
Library space includes all room type 400 -- reading/study rooms, stack space, and associated service areas -- and all room type 300 with a 41 (library) usage code.

6.6 Support Space
Support space is calculated at 9 percent of the sum of predicted space from the teaching, library, research, and office factors. Support space includes all type 700 rooms, which are data processing/computer rooms, shops, storage, vehicle storage, and associated service areas.

6.7 Auxiliary
Income-generating structures and space such as dormitories, cafeterias, student union buildings, stadiums, athletic facilities, housing or boarding facilities used by a fraternity, sorority, or private club, and alumni centers used solely for those purposes. Auxiliary space is not supported by state appropriations.

6.8 Athletics
Any facility used primarily to support intercollegiate athletics, including stadiums, arenas, multi-purpose centers, playing fields, locker rooms, coaches' offices, and similar facilities.

7 Coordination

7.1 ODPA Change Communications

7.1.1 Building Change
ODPA will send updated floor plans and inventory changes to several units including: Telecommunications, Academic Support &Facilities Resources (ASFR), Lock Shop, Risk Management, Sign Shop, Communication Services, Building Maintenance & Construction and Lubbock Emergency Communication District
7.1.2  *Floor Plan Change*
ODPA will send updated floor plans and inventory changes to several units including: Telecommunications, ASFR, Lock Shop, and City of Lubbock 911

7.2  *Space Request and Approval (SRA) Levels*
Level I – Requires approval through ODPA, CFO, and the President’s Office
Level II – Requires approval/notification through ODPA and ASFR
Level III – Requires approval/notification through ODPA

7.3  *Space Controller*
Typically at the Organization or College level and includes Vice President’s and Deans

7.4  *Space Coordinator*
Assigned by the Space Controller and will serve as the primary contact for space communications. Space Coordinators are typically at the building level.

7.5  *Certification of Inventory*
Texas Tech University certifies the facilities inventory each year in a submission to the THECB. Along these same lines, Space Controllers use the Annual Space Use Survey to validate the veracity of the facilities inventory information.

8  *Notification/Approval Triggers*
In order to coordinate the use of facilities and proper reporting, certain procedures must be followed to create the synergy required for an effective space management effort.

8.1  *SRA Level I*

8.1.1  *Loaning of Space*
Any OSC that allows another unit to use space within his or her footprint must understand the need to have a clear understanding as to the duration of the loan, composition of the space, limitations on modifications, and financial arrangements. This is best accomplished through the drafting and signing of a Memorandum of Understanding (MOU) that will be the tool needed to reclaim the space at a future date. Absent an MOU, it is understood the agreement to be of an indefinite time period. Loaning of space must be approved through the SRA process.

8.1.2  *Co-use of Space*
The rules pertaining to loaning of space 8.1.1 above apply.
8.1.3 Vacated Space
When an organization vacates space, which usually occurs as a result of new construction, the previously occupied space does not remain within the footprint of the previous OSC. It is subject to reassignment as the discretion of the SRA.

8.1.4 Back-fill
Occupation of new construction almost always leaves vacated space for reassignment. The units receiving space on backfill is determined by the SRA. Vacating units are not at liberty to promise space, nor are units able to reserve space with anyone, unless the SRA has authorized such a procedure.

8.1.5 Request for Additional Space (outside footprint)
If a unit requires additional space, the request and supporting information is sent to the Managing Director of ODPA, who will review the request, identify impacts, and arrange the inclusion on the SRA agenda. This will include leased or temporary spaces.

8.1.6 Request for Reassignment
If a unit requires reassignment to a new footprint, this must be requested through the SRA.

8.2 SRA Level II

8.2.1 Teaching Space Changes
Changes to Teaching Space or changes in Teaching Space Usage must follow OP 61.06 http://www.depts.ttu.edu/opmanual/OP61.06.pdf

8.3 SRA Level III

8.3.1 Non-Teaching Space Changes in Use
Any changes to space use must be reported to ODPA via the SUS, VIP, RMS or direct contact.

8.3.2 Renovations
Renovations must be reported to ODPA via the SUS, VIP, RMS or direct contact. If the renovations require new room numbers then OP 61.21 must be applied http://www.depts.ttu.edu/opmanual/OP61.21.pdf

8.3.3 Research Space Registration

- Phase I - Research Space Startup Checklist
- Phase II - Research Space Checklist (Post Award)
- Registration – Research Space that meets all criteria will be included in the Facilities Inventory database tagged by ODPA.
  - Quarterly Reminder to update/verify Research Space registrations
9 Controls

9.1 Room Numbering OP
OP 61.21 must be applied http://www.depts.ttu.edu/opmanual/OP61.21.pdf

9.2 Teaching Space OP
OP 61.06 http://www.depts.ttu.edu/opmanual/OP61.06.pdf

9.3 Move Approval Process (Banner)
All moves submitted through Procurement require approval through the Managing Director of ODPA. In order to expedite the process please submit the following information as early as possible and include it in the PO.

- Organization
- Moving From (Building(s)/Room(s))
- Moving To (Building(s)/Room(s))
- Brief Description of the purpose of the move.

10 Quality Assurance

10.1 Annual Facilities Inventory Certification by College
Each College will be required to complete an annual Space Use Survey (SUS).

10.2 Annual Building Random Sample Survey
30 Rooms from all buildings (that have more than 30 rooms) on main campus are randomly selected and go through an internal audit process.

10.3 Bi-Annual Campus Random Sample Survey
30 Rooms from buildings on main campus are randomly selected and go through an internal audit process.

10.4 Dashboard/Reconciliation Reports
- CIP to Organization Code
- Room Occupant – Organization Code
- Teaching Space Usage/Utilization Reports
- Scheduled Activity (CIP/Organization Usage Report)
- Room Capacity Report
- Research Equipment Assessment
- Employee Hiring Location Comparison
o New Employees
o Terminated Employees

10.5 Construction Report Analysis

All construction projects will be entered into RMS with a specified Deadline (Substantial Completion Date).

- Building Maintenance & Construction (Physical Plant)
- Facilities Planning & Construction
- SPA – State Property Accounting (Track and categorize Capital Construction Projects)

10.6 Relocation Project Management

All relocation projects will be entered into RMS with a specified Deadline (Completion Date). Relocation projects managed by ODPA will include documents that show room occupants and room usage.

10.7 TechSID Quality Controls

- Virtual Information Portal – Combines graphical and tabular data
- Room Occupant – Organization Code
- Scheduled Activity
- Research Equipment
- Research Registration Entries
- Edit History Audit Logs
- Mass Migration Interface
  o Organization Codes
  o CIP Codes
- General Room Entry Errors
  o Capacity Required
  o Invalid Code Combination
- Static Definitions – Pre-defined room detail values for Functional Category Code, Organization Code, and CIP Code.
  o Static Definitions can be overridden.
11 Systems Relationship Overview

Footprint Change? (Building or Room)

- Yes: Update CAD Drawings
- No:
  - ODPA Facilities Information
  - Update VIP/PDF

Emergency Action Plans (EAP) and Emergency Operations Center (EOC)

- Risk Management
- Telecommunications
- 911 Services
- Physical Plant
- EH&S
- Housing/Dining
- THECB/State Reporting
- NSF Reports
12 Definitions

Predominant Use – Teaching Space Room Types are determined by evaluating the type of activity that is scheduled in a room. If at least 50% of a room’s activity is lecture and it is scheduled for more than 20 Hours Per Week it will be classified as a Classroom (110).

Classroom – Room Type: 110 with lecture as a predominant use and regularly scheduled for 20 Hours Per Week or more.

Class Laboratory – Room Type: 210 with class labs as a predominant use and regularly scheduled for 20 Hours Per Week or more.

Space Usage Efficiency (SUE) – Multi-metric space usage efficiency standards that are used to measure Classroom/Class Laboratory efficiency and capture activity scheduled outside of Classrooms/Class Laboratories. SUE includes utilization, demand, and percent fill to generate aggregate scores by Campus, Classroom, or Class Laboratory.

Space Use Survey (SUS) – End-user survey process implemented by ODPA that allows departments to verify how their space is being used.

Virtual Information Portal (VIP) – Interactive Geographic Information System that can be used by departments and administrators to manage space, inform decisions, and obtain specific space information.

Position Class Space Tier – Each Banner Position Class has specific space needs so each position class is assigned a Space Tier (1 – 7) that can be used to analyze space surpluses/deficits, develop migration strategies, and inform disaster planning initiatives.

Hours Per Week (HPW) – The Hours Per Week that a room is scheduled. Hours Per Week serve as the basis for utilization and demand metrics.

ODPA Report Portal – Enterprise Report Portal that provides DSS style reports related to space including SUE metrics, Research Space, Office Space Analysis, and basic inventory reports.

ODPA Request Management System (RMS) – Work order and project tracking system.

Education & General Net Assignable Square Feet (E&G NASF) - This is net assignable space used to carry out institutional missions of instruction, research, and support. It does not include auxiliary enterprise space, space that is permanently unassigned, or space used for operations independent of the institution’s mission.
13 Appendix

13.1 Teaching Space

FTSE (Full Time Student Equivalent) is used to evaluate current space and determine future space requirements. FTSE growth can be forecasted to determine future needs.

13.2 Classrooms

- Space Use Code: 110
- Predominant Use: Lecture
- Hours Per Week Thresholds
  - < 20 HPW – Not a (110) Classroom
  - Standard: 38 HPW
  - 43 HPW – Monitor conditions and develop a strategy for additional classrooms
  - 45 HPW – Alert for additional Classrooms (Critical)
- Regularly Scheduled for 20 Hours Per Week or more
- 18 Sq Ft – 24 Sq Ft per 1 Student Station for Classrooms and Meeting Rooms with 10 Sq Ft minimum. Between 10 Sq Ft and 18 Sq Ft is acceptable. Sq Ft per student station can vary between disciplines and function. Computer labs may require more area than fixed seating. This standard will be used to capture room capacities that may be incorrect.
- Tiered Seating is generally recommended for Classrooms that have a station capacity greater than 50.

<table>
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<th>Capacity Tier</th>
<th>Tiered Seating</th>
<th>Average Capacity</th>
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<td>Tiered Seating</td>
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<td>Tier 5 (&gt; 150)</td>
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13.3 Class Labs

- Space Use Code: 210
- Predominant Use: Lab, Studio
- Hours Per Week Thresholds
  - < 20 HPW – Not a (210) Class Lab
  - Standard: 25 HPW
  - 30 HPW – Monitor conditions and develop a strategy for additional Class Labs
  - 35 HPW – Alert for additional Class Labs (Critical)
- Regularly Scheduled for 20 Hours Per Week or more
- Class Lab Sq Ft per student station varies between .
  - 30 Sq Ft per student station should be allocated for Computer Labs
  - 70 – 120 Sq Ft per student station depending on discipline.

13.4 Research Space

250 Research/Non-class Laboratory

*Definition:* A space used for laboratory experimentation, research, or training in research methods; professional research and observation; or structured creative activity within a specific program or for sponsored research (whether sponsored with federal, state, private, or institutional funds).

255 Research/Non-class Laboratory Service

*Definition:* A space that directly serves one or more research/non-class laboratories as an extension of the activities in those spaces.

21 Institutes and Research Centers

22 Individual or Project Research

- Space Use Code: 250/255
- Functional Category Code: 21/22 (Predominant Functional Category Code)
- Guidelines for inactive planned research spaces must be developed.
### Criteria Description Met

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<tr>
<th>Criteria</th>
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<td>Separately Budgeted and Accounted for</td>
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*Excludes departmental research that is not separately budgeted and accounted for.*

If all of the above criteria are met then the room Functional Category Code will be a 21 or 22. If the predominant Functional Category Code is 21 or 22 then the room will be coded as a (250) Research Lab or (255) Research Lab Service.

- **Offices used for research will be coded as (310) Office and 21 or 22.**
  - THECB plans on including 21/22 in Research Allocations
- **Isolate Research Labs from other spaces (Offices, Classrooms, etc.) for 24/7 HVAC demands.**
- **Group Research Labs together for shared HVAC utilization.**
- **Remove Office Space from Research Labs**

### 13.5 Office Space Tiers

<table>
<thead>
<tr>
<th>Tier</th>
<th>Tier Sq Ft</th>
<th>Tier Sq Ft (Max)</th>
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<td>351</td>
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<tr>
<td>Tier 2</td>
<td>240</td>
<td>280.8</td>
</tr>
<tr>
<td>Tier 3</td>
<td>170</td>
<td>198.9</td>
</tr>
<tr>
<td>Tier 4</td>
<td>150</td>
<td>175.5</td>
</tr>
<tr>
<td>Tier 5</td>
<td>120</td>
<td>140.4</td>
</tr>
<tr>
<td>Tier 6</td>
<td>40</td>
<td>46.8</td>
</tr>
<tr>
<td>Tier 7</td>
<td>15</td>
<td>17.55</td>
</tr>
</tbody>
</table>
Office Space Tier (Examples) A complete list of all Tiers is available upon request.

<table>
<thead>
<tr>
<th>Position Type</th>
<th>Position Class</th>
<th>Tier</th>
<th>Tier Sq Ft</th>
<th>Tier Sq Ft (Max)</th>
<th>Est Rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Time</td>
<td>Academic Dean</td>
<td>Tier 2</td>
<td>240</td>
<td>280.8</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>Chancellor</td>
<td>Tier 1</td>
<td>300</td>
<td>351</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>Executive Director</td>
<td>Tier 3</td>
<td>170</td>
<td>198.9</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>President</td>
<td>Tier 1</td>
<td>300</td>
<td>351</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>Professor</td>
<td>Tier 4</td>
<td>150</td>
<td>175.5</td>
<td>1</td>
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<tr>
<td>Part Time</td>
<td>Co-Investigator</td>
<td>Tier 5</td>
<td>60</td>
<td>60</td>
<td>0.5</td>
</tr>
<tr>
<td>Part Time</td>
<td>Engineer</td>
<td>Tier 5</td>
<td>60</td>
<td>60</td>
<td>0.5</td>
</tr>
<tr>
<td>Full Time</td>
<td>Associate Archivist</td>
<td>Tier 5</td>
<td>120</td>
<td>140.4</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>Engineer</td>
<td>Tier 5</td>
<td>120</td>
<td>140.4</td>
<td>1</td>
</tr>
<tr>
<td>Part Time</td>
<td>Head Golf Pro</td>
<td>Tier 7</td>
<td>7.5</td>
<td>7.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Full Time</td>
<td>Photographer II</td>
<td>Tier 5</td>
<td>120</td>
<td>140.4</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>Asst Vice President</td>
<td>Tier 2</td>
<td>240</td>
<td>280.8</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>Assoc General Counsel</td>
<td>Tier 4</td>
<td>150</td>
<td>175.5</td>
<td>1</td>
</tr>
<tr>
<td>Full Time</td>
<td>Admin Assistant</td>
<td>Tier 6</td>
<td>40</td>
<td>46.8</td>
<td>0.25</td>
</tr>
<tr>
<td>Full Time</td>
<td>PC/Ntwk Support IV</td>
<td>Tier 5</td>
<td>120</td>
<td>140.4</td>
<td>1</td>
</tr>
<tr>
<td>Part Time</td>
<td>Sr Evaluator</td>
<td>Tier 5</td>
<td>60</td>
<td>60</td>
<td>0.5</td>
</tr>
<tr>
<td>Full Time</td>
<td>Utility Operator II</td>
<td>Tier 5</td>
<td>120</td>
<td>140.4</td>
<td>1</td>
</tr>
<tr>
<td>Part Time</td>
<td>Assistant Managing Dir</td>
<td>Tier 5</td>
<td>60</td>
<td>60</td>
<td>0.5</td>
</tr>
<tr>
<td>Part Time</td>
<td>Research Associate</td>
<td>Tier 4</td>
<td>75</td>
<td>75</td>
<td>0.5</td>
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<tr>
<td>Part Time</td>
<td>Sr Sales Clerk</td>
<td>Tier 7</td>
<td>7.5</td>
<td>7.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Office Tier Benefits (Samples)

Sample 1

<table>
<thead>
<tr>
<th>Total Assigned ASF</th>
<th>1,200</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Office Size Options</th>
<th>Option 1</th>
<th>Option 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office SQ FT</td>
<td>120</td>
<td>180</td>
</tr>
<tr>
<td>Individual Offices</td>
<td>10</td>
<td>7</td>
</tr>
</tbody>
</table>

In a space approximately 1,200 SF, one has the option of ten (10) 20 SF offices or seven (7) 180 square feet.
Sample 2

| Total Assigned ASF | 20,000 |

<table>
<thead>
<tr>
<th>Office Size Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Option 1</strong></td>
</tr>
<tr>
<td>Office SQ FT</td>
</tr>
<tr>
<td>Individual Offices</td>
</tr>
</tbody>
</table>

Similarly, in a 20,000 SF space, one has the opportunity to have one hundred sixty-seven (167) 120 SF offices while only one hundred eleven (111) 180 SF offices.

Note: These totals and calculations do not account for the need of mechanical rooms, varying walk thicknesses, and other construction and maintenance considerations.
Tier 1 – 300 Sq Ft

Tier 1

311 SF
13.5.1 D.2 Tier 2 – 240 Sq Ft
13.5.2 D.3 Tier 3 – 170 Sq Ft
13.5.3 D.4 Tier 4 – 150 Sq Ft
13.5.4 D.5 Tier 5 – 120 Sq Ft
13.5.5 D.6 Tier 6 – 80 Sq Ft
13.5.6 D.7 Tier 7 – 30 Sq Ft
Occupants included in Tier 7 usually do not require office space including Cooks, Grounds Maintenance, Cashiers, etc.
13.6 Room Information Sources

Step 1 – CAD Drawings

Use CAD Drawings to determine the room numbers, number of rooms, room location (within the building), and room area. As-built drawings will be used when available.

CAD Drawing

Red Polyline provides room area (120 SQ FT)

Step 2 – Site Verification

Site Verifications are used to verify the accuracy of the CAD Drawing and to collect additional room information.
Site Verification

Use a disto (Laser Measuring Device) to measure the length and width of a room. If a room’s shape is unusual, length and width measurements can be compared to CAD length and width measurements.

Step 2 – Room Information Collection/Verification

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Source Primary</th>
<th>Secondary Field Sources</th>
<th>Potential Change Indicators/Trigger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Number</td>
<td>CAD Drawing</td>
<td>Site Survey</td>
<td>Construction Project</td>
</tr>
<tr>
<td>Floor</td>
<td>CAD Drawing</td>
<td>Site Survey</td>
<td></td>
</tr>
<tr>
<td>Space Use Code</td>
<td>Site Survey</td>
<td>Space Use Survey, Feedback, and Predominant Functional Category Code</td>
<td>Change in Scheduled Activity, Change in Use, Relocation Project, Construction Project</td>
</tr>
<tr>
<td>Room Area</td>
<td>CAD Drawing</td>
<td>Site Survey</td>
<td>Construction Project</td>
</tr>
</tbody>
</table>
### Room Details (Can be Multiple Entries Per Room)

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Source Primary</th>
<th>Secondary Field Sources</th>
<th>Potential Change Indicators/Trigger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity(ies)</td>
<td>Room Occupant</td>
<td>Course Schedule or Usage Information</td>
<td>Construction, Relocation Project, Change in Use, Change in Scheduled Activity</td>
</tr>
<tr>
<td>Organization(s)</td>
<td>Room Occupant</td>
<td>Course Schedule or Usage Information</td>
<td>Construction, Relocation Project, Change in Use, Change in Scheduled Activity</td>
</tr>
<tr>
<td>CIP(s)</td>
<td>Organization</td>
<td>Course Schedule, and Room Occupant</td>
<td>Construction, Relocation Project, Change in Use, Change in Scheduled Activity</td>
</tr>
<tr>
<td>Functional Category Code(s)</td>
<td>Organization</td>
<td>Room Occupant, Usage Information, and Feedback</td>
<td>Construction, Relocation Project, Change in Use, Change in Scheduled Activity</td>
</tr>
<tr>
<td>Percentage(s)</td>
<td>% of Time Used</td>
<td>% of Scheduled Activity between alternate uses or between departments</td>
<td>Construction, Relocation Project, Change in Use, Change in Scheduled Activity</td>
</tr>
</tbody>
</table>

### Step 4 – Data Entry

- Enter room data for all rooms.
  - Room Information
  - Room Details
  - Room Occupants
Step 5 – Virtual Information Portal

- Link Polylines to Room Database
- Run Floor Plan to Database Verification Report
- Verify Floor Plan, Space Use, and Organization Layers
13.7 General Purpose Classrooms

In 2010 a classroom quality/condition review project was completed and based off of the results a General Purpose Classroom project was implemented through the Facilities Allocation Committee by ASFR and Planning & Administration. General Purpose Classrooms go through an initial upgrade process to bring the room up to TTU standards which includes room cosmetic, furniture, access control (Proximity ID Card), and technology. After the initial renovation the rooms are centrally controlled and maintained through the Office of the Provost-ASFR and technology is supported by Classroom Technology Support.

Under the pilot project in 2010 five Classrooms with the lowest condition score were selected and converted to General Purpose Classrooms. Five rooms have been renovated each year since 2010 and all Classrooms included in the (Old) Business Administration renovation will be considered General Purpose Classrooms.

Initial Pilot Rooms

<table>
<thead>
<tr>
<th>Location/Room</th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holden Hall 152</td>
<td><img src="image1.png" alt="Before Image" /> <img src="image2.png" alt="After Image" /></td>
<td><img src="image3.png" alt="Before Image" /> <img src="image4.png" alt="After Image" /></td>
</tr>
<tr>
<td>Human Sciences 273</td>
<td><img src="image5.png" alt="Before Image" /> <img src="image6.png" alt="After Image" /></td>
<td><img src="image7.png" alt="Before Image" /> <img src="image8.png" alt="After Image" /></td>
</tr>
</tbody>
</table>
13.8 ODPA Metrics/Goals

Operational Excellence = Accuracy + Speed + Agility

- Accuracy (100% Accurate)
  - Record Ownership
  - Error Reports
  - BRSS/CRSS Results
  - Space Use Survey Results
- Speed – Real Time Information
  - RMS Turnaround Time
  - Customer Surveys
  - Data Entry Analysis
  - Back Log Analysis
• Agility
  o Response to new projects
  o Customer Response Surveys

14 ODPA Reporting Cycle

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Type</th>
<th>Report</th>
<th>Description</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual</td>
<td>THECB</td>
<td>CBM011 - Room Inventory</td>
<td>Facilities Inventory Room Report for TTU/TT System</td>
<td>October 15th</td>
</tr>
<tr>
<td>Annual</td>
<td>THECB</td>
<td>CBM014 - Building Inventory</td>
<td>Facilities Inventory Building Report for TTU/TT System</td>
<td>October 15th</td>
</tr>
<tr>
<td>Annual</td>
<td>State</td>
<td>State Property Accounting</td>
<td>Capital Construction Project reports for buildings and real property.</td>
<td>October 1st</td>
</tr>
<tr>
<td>Biennial</td>
<td>Private</td>
<td>NSF - Research Space Report</td>
<td>Research Space by Discipline</td>
<td>December 21st</td>
</tr>
<tr>
<td>Annual</td>
<td>THECB</td>
<td>CCI - Campus Condition Index</td>
<td>Deferred Maintenance/Maintenance Report</td>
<td>October 15th</td>
</tr>
</tbody>
</table>

15 References

THECB Facilities Inventory Classifications and Procedures Manual
Utah State Space Management Policy & Procedures
NMSU Facilities Space Management Policy
Stanford
Auburn