GARY W. ROLLINS COLLEGE OF BUSINESS
THE UNIVERSITY OF TENNESSEE AT CHATTANOOGA

UTC ROLLINS COLLEGE OF BUSINESS
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Perkins + Will
Jeff Ziebarth, Principal, Higher Education
Dave Koenen, Designer and Renderings

KSi Structural Engineers, Structural
Newcomb & Boyd, MEP
CRJA-IBI Group, Landscape
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A MESSAGE FROM THE DEAN

I am pleased to share with you this programming and design document for a second business building that will connect with Fletcher Hall and create a Gary W. Rollins College of Business complex.

This 82,000-square-foot second building will provide the resources and infrastructure to support our growing student enrollment and our bold vision of becoming a nationally recognized business school centered on collaboration, active learning, entrepreneurial thinking, and student success/support. The design of the business complex creates a welcoming entry to campus, creates indoor and outdoor gathering areas while respecting and showcasing the historic architecture of Fletcher Hall. This new business complex is the next step in the upward trajectory of the college, a trajectory accelerated by the generous gift from Gary and Kathleen Rollins.

The design incorporates both a traditional and future-oriented approach to business education. There is no doubt the pandemic—which began about halfway through our planning process—is accelerating the push to digital instruction platforms. However, the pandemic also allowed us to learn that digital platforms are not a replacement for the social interaction and personal engagement that are critical to the learning process. Spaces in the new building were conceived, planned, and designed to support an educational model that uses virtual tools, high quality online instruction and hybrid curriculum delivery, while also providing areas for innovative face-to-face instruction and engagement.

At the heart of the new building are flat-floor, flexible learning environments featuring robust technology platforms. These areas are complemented with a series of new and innovative learning studios, specialized simulation labs, and digitally immersive learning spaces. These learning spaces can flex between online, hybrid, and in-person curriculum delivery while allowing for a variety of flexible and adaptable “social” learning spaces and environments. The new building also provides space for academic centers of excellence that promote interdisciplinary teaching, research and community engagement.

The most prominent location in the new building is an open atrium that provides much needed space for student and community interaction. The atrium can accommodate large events like awards dinners, and can also be configured for a number of smaller events like career fairs, networking events, student organization meetings and more. In addition to the atrium, the building offers a large presentation space that can be used as a high-capacity classroom or to accommodate campus and community events featuring guest speakers or multi-media presentations.

This programming and design document represents the hard work of our design team and hours of thoughtful discussion, collaboration and planning by our faculty, staff, students and community members. We are extremely pleased with the design and are incredibly excited about the building and the growth and innovation in business education it represents. It will be a physical representation of the vision we have for the college and will serve as a welcoming and inspiring entry to the campus for students and the Chattanooga community.
The renovation of Fletcher Hall provides an asset supporting the educational journey of the RCOB students. However, there are many more challenges and opportunities facing the College. While Fletcher Hall provides much needed dedicated space and resources supporting the RCOB, it is at capacity for supporting the College going forward. Steady enrollment growth over the past five years, a focus on low student to faculty ratios and learning spaces, changes in pedagogy and curricula, and a lack of interaction and collaboration spaces highlight the shortcomings of Fletcher Hall in meeting the future needs of the RCOB.

One other significant component of the Gary W. Rollins gift was an investment for expanding the physical footprint of the RCOB beyond the walls of Fletcher Hall. This gift provided the catalyst to

explore the creation of a transformational master plan to expand the RCOB beyond Fletcher Hall, while creating a gateway and front door to the UTC campus.

The existing renovated facilities will not support current pedagogy relating to ever-changing curricula, or provide an open, inviting environment inspiring energetic collaboration and interaction as envisioned by the school. Therefore an 82,000 gross square foot addition, and renovation of 17,000 net square feet within the existing footprint, will allow a reorganization of adjacencies and optimize collaboration and experiential learning opportunities.

The current enrollment in the Rollins College of Business is approximately 2,100 undergraduate students and 320 graduate students, for a total enrollment of approximately 2,400 students. The School’s approximate 47 full-time faculty, 15 part-time faculty, 34 adjunct faculty, and 33 staff are also housed in existing facilities. The goal of new facilities would be to allow for expansion of enrollment within all programs, elevating the level of student service and ultimately addressing all the programmatic and functional inadequacies of the existing building. New student enrollment plateaus are envisioned to be 3,000-3,500 total students upon completion of this addition.

The Rollins College of Business is housed in a 1939 building that was originally built as the Chattanooga City Library. The existing facilities consist of four stories, encompassing approximately 84,000 gross square feet and are currently undergoing an extensive renovation. The remodeling of Fletcher Hall was made possible by a generous gift of Gary Rollins and as one part of the Gary W. Rollins (GWR) gift. This generous gift enabled the renovation of Fletcher Hall to re-position the existing classrooms and teaching labs within the building, as well as create much needed space supporting the administration and 4 departments within the College. A signature element completed in a previous renovation is the Decosimo Student Success Center providing much needed resources in support of the RCOB students including professional development, advising, placement, tutoring, resume writing and a series of career focused workshops and networking opportunities.

The organizational format of the planning for the Rollins College of Business New Vision was a two-tier committee structure that included a day-to-day Departmental User Committee and a Campus Leadership Committee addressing more strategic College and University initiatives. The planning process was organized around 6 stages of investigation incorporating a series of collaborative in-person and virtual workshops involving the stakeholders.

The stages of investigation included the following:

- Visioning and Data Collection and Existing Building Assessment
- Program and Needs Assessment
- Program Space List Review
- Alternative Stacking, Concepts and Cost Analysis Studies
- Final Concept Development and Cost Evaluation
- Final Program Documentation and Presentation
GOALS & STRATEGIC PLAN

GOALS AND OBJECTIVES

Strategic Plan

The University of Tennessee at Chattanooga’s vision and direction, ensuring mission fulfillment, good stewardship, and purposeful use of resources, is based upon UTC’s strategic plan. The 2015-2020 strategic plan includes the following goals:

• Transform lives through meaningful learning experiences
• Inspire, nurture and empower scholarship, creativity, discovery, innovation and entrepreneurial initiatives
• Ensure stewardship of resources through strategic alignment and investments
• Embrace diversity and inclusion as a path to excellence and societal change

The University of Tennessee at Chattanooga’s mission is to actively engage students, faculty and staff, embrace diversity and inclusion, inspire positive change, and enrich and sustain our community.

Strategic RCOB Project Priorities

With input from members of UT Chattanooga’s administration, faculty and staff, the following priorities and goals for the Fletcher Hall renovation and addition were identified:

• Encourage formal and informal collaboration
• Maximize long-term flexibility and enrollment growth, up to 3,500 students
• Ensure flexibility for emerging and evolving technologies; include high-end presentation capabilities
• Integrate with the community via a community gathering space
• Provide balance (in square footage, program uses & adjacencies) between the existing Fletcher Hall and the new building
• Prioritize key components, including the Auditorium, Community Gathering space, Center of Centers, and Conference Center
• Project Visioning Statement

Purpose

Design a Gary W. Rollins College of Business complex that provides an exceptional student experience and supports students, faculty, and staff through lifelong learning, research, and engagement.

Greater Purpose

Enhance the value of business education by supporting intellectual growth and professional development.

Design Drivers/Strategic Platform

1. Unify students, faculty, staff, and community members within an interactive and engaging Rollins College of Business complex.
2. Create an environment that supports experiential and innovative learning through exploration, research, and hands-on applications.
3. Provide resources that support student success and inspire leadership and lifelong learning.
4. Utilize adaptable spaces to promote entrepreneurial thinking and transformational learning.
5. Enable an environment of lifelong learning through partnerships, community engagement, and participation.
6. Inspire dynamic, interactive conversations that promote experiential learning and discovery.
PROGRAM SUMMARY

WHAT IS PROGRAMMING?

Architectural programming is the research-based decision-making process that identifies the scope of work to be designed. This programming process includes six stages:

- Research of project type
- Establishment of goals and objectives
- Gathering of relevant information, including precedents
- Identification and development of design strategies
- Determination of quantitative requirements
- Summarization of the program

This process generates plans, models and room data sheets of various space types in order to illustrate and record programmatic relationships and requirements. Building systems narratives further clarify the scope of the project.

PROGRAM SUMMARY

The alignment of the strategic vision and project mission statement determined the future space needs for the RCOB. When considering the spaces being renovated within Fletcher Hall and the additional spaces required to support program and enrollment growth, expanding opportunities for collaboration and interaction, community engagement and changes in pedagogy and curricula, indicated a new addition of approximately 82,000 GSF.

In combination with 84,000 GSF in Fletcher Hall, the Gary W. Rollins College of Business Complex will provide 166,000 GSF of innovative, highly interactive and future focused business education facilities.

During the planning process, the goal was to utilize as much of the renovated Fletcher Hall space as possible to maximize that investment. Based on a future enrollment of 3,000 undergraduate and graduate students, this provides on average 56 GSF per student. In comparison, this puts the SF of the complex at the upper end of peer colleges of business.

The programming process was organized around activities to create an interdisciplinary focused outcome, with the new addition spaces summary including:

<table>
<thead>
<tr>
<th>New Addition</th>
<th>Fletcher Hall</th>
</tr>
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<tbody>
<tr>
<td>Renovation</td>
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<tr>
<td>1.0 Instructional Spaces</td>
<td>22,030 ASF</td>
</tr>
<tr>
<td>2.0 RCOB Administration</td>
<td>0 ASF</td>
</tr>
<tr>
<td>3.0 Departments and Faculty</td>
<td>0 ASF</td>
</tr>
<tr>
<td>4.0 Student Services</td>
<td>0 ASF</td>
</tr>
<tr>
<td>5.0 Outreach Centers</td>
<td>8,650 ASF</td>
</tr>
<tr>
<td>6.0 Community Spaces</td>
<td>10,675 ASF</td>
</tr>
<tr>
<td>7.0 Shared Resources</td>
<td>8,700 ASF</td>
</tr>
<tr>
<td>8.0 Building Support Systems</td>
<td>30,633 SF</td>
</tr>
<tr>
<td>Total Square Footage</td>
<td>81,688 GSF</td>
</tr>
</tbody>
</table>

Note: Fletcher Hall is approximately 83,943 Gross Square Feet of which 16,987 SF will be targeted for renovation within the new complex.
SITE ANALYSIS

The design team examined the University of Tennessee at Chattanooga Campus Master Plan report as a critical component of the planning for the addition to Fletcher Hall and the RCOB. This included:

- Proposed Building Use
- Transportation Systems
- Proposed Open Space
- Land Ownership

Master Plan 2012 - Proposed Building Use
Master Plan 2012 - Transportation Systems
Master Plan 2012 - Proposed Open Spaces
Master Plan 2012 - Land Ownership
SITE ANALYSIS

As part of the site analysis and planning the addition, the design team studied the existing campus functional organization, passage ways, site access and connections to campus open space (Chamberlain Field).
As part of the site exploration and capacity studies, the design team and the committee determined the appropriate site for the new addition was enhanced by the removal of the Development Office structure allowing a more prominent “gateway” element to be created with the new addition.
FINISHED FLOOR LEVEL AND SITE ELEVATION STUDY
EXISTING SPACE EVALUATION | FLETCHER HALL LEVEL 1

Program Legend

1.0 Instructional Space
6.0 Common Areas
7.0 Shared Facilities
8.0 Building Support
8.1.1 Building Circulation

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
EXISTING SPACE EVALUATION | FLETCHER HALL LEVEL 3

Program Legend

- 1.1 Instructional Space - Lab
- 2.0 RCOB Admin
- 3.0 Dept. Admin & Faculty Offices
- 4.0 Centers
- 6.0 Common Areas
- 8.0 Building Support
- 8.1.1 Building Circulation

The diagram shows the layout of Fletcher Hall Level 3 with various areas like faculty offices, dean's suite, conference room, and common areas. The program legend indicates different types of spaces and their color codes.
PROGRAM STATEMENT SUMMARY

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<th>NEW ADDITION</th>
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Note: Fletcher Hall is approximately 83,943 Gross Square Feet of which 16,987 SF will be targeted for renovation within the new complex.
## PROGRAM STATEMENT

### 1.0 Instructional Spaces

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### 2.0 Rollins College of Business Administration

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Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
## PROGRAM STATEMENT

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<th>Assign. SF</th>
<th>Location</th>
<th>Location</th>
<th>Location</th>
<th>Location</th>
<th>%</th>
<th>Comments</th>
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### 3.1 Accounting Faculty Offices

- **Department Chair**: 1
- **FT Faculty Offices**: 11
- **Student Faculty Interaction**: 1
- **Faculty Offices (growth)**: 2

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<th>Location</th>
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**Subtotal**: 1,980

### 3.2 Economics + Finance Faculty Offices

- **Department Chair**: 1
- **FT Faculty Offices**: 12
- **Student Faculty Interaction**: 1
- **Faculty Offices (growth)**: 2

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**Subtotal**: 2,110

### 3.3 Marketing + Entrepreneurship Faculty Offices

- **Department Chair**: 1
- **FT Faculty Offices**: 15
- **Student Faculty Interaction**: 1
- **Faculty Offices (growth)**: 4

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**Subtotal**: 2,760

### 3.4 Management Faculty Offices

- **Department Chair**: 1
- **FT Faculty Offices**: 22
- **Student Faculty Interaction**: 1
- **Faculty Offices (growth)**: 5

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**Subtotal**: 3,780

### 3.5 Center for Thought Leadership Shared Areas

- **Reception Area**: 1
- **Administrative Workstation**: 4
- **Department Head (growth)**: 2
- **Adjunct Faculty Area**: 4
- **Departmental Files Storage**: 1
- **Grad Assistants**: 4
- **Workroom/Supplies/Copy**: 1
- **Main Room**: 1
- **Large Conference Rooms**: 1
- **Small Conference Rooms**: 3
- **Kitchenette**: 1
- **Internal Circulation**: 1

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**Subtotal**: 4,770

### Faculty and Staff Growth

- **Faculty and Staff Growth**: 2

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**Subtotal**: 2,134

**Total Center for Thought Leadership**: 15,400

- **Location**: 15,400
- **Location**: 15,400
- **Location**: 15,400
- **Location**: 1,421
- **Location**: 1,520

*Repurpose graduate offices at Fletcher LV 3 - 4*
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Gary W. Rollins College of Business  
The University of Tennessee at Chattanooga
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Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
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**Total Assignable Areas:** 86,310

**Total Gross Building Area:** 165,637

**Square Footage per Student - 3000 Enrollment:** 83.949

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
PROGRAM HIGHLIGHTS & PRECEDENT IMAGERY

PROGRAM SYNOPSIS

The following pages offer a detailed summary of the UT Chattanooga Fletcher Hall program, as well as a conceptual project budget. The program includes organizational diagrams, site diagrams and conceptual massing models. These models and plans describe, in general terms:

• The layout and adjacency desires of the various departments, both to each other and to the rest of the program components
• The various constraints, in plan and section, that define the scope and design area
• The test fit of the proposed program within the development area

The program comprises administrative spaces, including individual offices, classrooms, specialized labs, conference rooms, break rooms, dining areas, bathrooms, collaboration spaces, storage areas, and support spaces for building systems.

Critical to the success of the Gary W Rollins College of Business is to address the needs of the institution going forward, and a commitment to provide the resources to be a great business school. Essential to this success and the effectiveness of the RCOB for future generations include the following components:

Innovative Learning – Embracing a new style of teaching and a shift in business school pedagogies and curricula are highlighted by the need for new and innovative learning environments. Visualization, Big Data Analysis, Design Thinking and Studio Classrooms are becoming more prevalent. The new addition to the RCOB is committed to this by providing such environments including:

• Experiential Active Learning Environments
• Ideation Lab (iLab) – Experimental Teaching Lab
• Data Analytics and Visualization Lab
• Professional Communication Studio
• Financial Markets Lab
• Enterprise “Studio” Classrooms

Student Success and Experience – Critical to the success of the RCOB students is a commitment to providing the proper resources. The RCOB Complex provides these critical resources supporting student professional development, placement, mentoring, advising and tutoring. Of equal importance is additional resources supporting learning and collaboration outside the classroom. These resources include:

• Decosimo Student Success Center
• Student Development Center (Tutoring and Writing Suite)
• Team Study Rooms and Touch Down Areas
• Student Incubator

Community, Engagement and Outreach – As highlighted in the project vision statement and throughout the RCOB strategic plan is the importance of nurturing the sense of community with the College and University as well as engagement opportunities with external businesses and industry partners. The RCOB Complex provides these critical resources supporting community, engagement and outreach by providing the following resources:

• Forum of Engagement (Community Gathering Space)
• Center for Lifelong Learning (CLL) (Executive Conference Center)
• Center of Centers (Business Solutions Center, hosting 5 different Centers of Distinction)
• RCOB Colloquium
• Executive in Residence
• Executive Boardroom
• “The Office” (College of Business Pub)
PRECEDEMTS: ACTIVE & EXPERIENTIAL CLASSROOMS
PRECEDEnts: EVENT SPACE & FLEX SPACE
PRECEDENTS: STUDENT SUCCESS CENTER
PRECEDETS: STUDENT SUCCESS CENTER
PROGRAM SPACE SHEET: AUDITORIUM

SPACE REQUIRED

Name: Auditorium
Occupancy: 250 Occupants
Net Square Footage: 3,750 SF
Space No.: 1.2

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: Locate contiguous to AV control room.
2. Adjacent: Locate adjacent to main entrance / building lobby for additional pre-function activity space.
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.24 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum three locations
   120 V general receptacle outlets, minimum 10' O.C. wall
   120 V ceiling mount for projectors, minimum two locations
   120 V ceiling mount for projector screens, minimum two locations
   120 V receptacle for Podium (with A/V rack)
   120 V receptacles for A/V equipment
4. Communications: Communication floor outlets, minimum three locations
   Communication ceiling mount outlet for projectors, minimum two locations
   Communication outlet for Podium (with A/V rack)
   Communication outlets for A/V equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: 2 Ceiling mounted Digital Projectors
   2 Ceiling recessed, motorized Projection Screens
   Sound system equipped with voice amplification and surround sound.
   AV system equipped with both audio and video capture.

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

The auditorium is intended to host both formal and informal events. It should be located contiguous to a pre-function space and should be convenient to public restrooms. The space is to be equipped with state of the art, audio and video technologies capable of audio capture, audio amplification, video capture, and video projection. Includes a 54-seat lecture area.

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board with Acoustic Wall Panels
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Room Perimeter
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system if required
f. Window Treatments: Black out shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
2 Projection Screens (20'-0” W x 12'-0” H)
2 Projector Mounts
192 Fixed Auditorium Seats
8 Fixed Curved Tables

B = Specified and procured through Interior Designer (not furnished by GC)
54 Conference Chairs

C = Specified and procured through A/V Consultant (not furnished by GC)
2 Digital Projectors
A/V and Sound System Rack
1 Podium with A/V Rack inside
AV Equipment Items (to be determined by the University)

D = Specified and procured through I.T. Consultant (not by GC)
N/A

E = Supplied by Owner (in project budget)
N/A

F = Supplied by Owner (not in project budget)
N/A
PROGRAM SPACE SHEET: AUDITORIUM

OCCUPANTS: 250
SF/EACH: 15

54 seats at tables, 192 at fixed seats = 246 seats
(LV 1 - 128 fixed seat, LV 2 - 64 fixed seats)
4,058 SF total

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: RCOB COLLOQUIUM

SPACER REQUIRED
Name: RCOB Colloquium
Occupancy: 100 Occupants
Net Square Footage: 2,500 SF
Space No.: 7.3

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: Outdoor Terrace
3. Convenient: Center for Lifelong Learning (CLL) and Executive Board Room

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.24 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum three locations
   120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V ceiling mount for projectors, minimum two locations
   120 V ceiling mount for projector screens, minimum two locations
   120 V receptacles for A/V equipment
4. Communications: Communication floor outlets, minimum three locations
   Communication ceiling mount outlet for projectors, minimum two locations
   Communication outlets for A/V equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: 2 Ceiling mounted Digital Projectors
   2 Ceiling recessed, motorized Projection Screens
   4 Wall mounted, Digital TV Display Monitors
   Sound system equipped with voice amplification and surround sound
   AV system equipped with both audio and video capture.

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Multifunctional and gathering space for events, executive functions, retreats and other large meetings.

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Resilient Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Room Perimeter
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system if required
f. Window Treatments: Black out shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
2 Projection Screens (20’-0” W x 12’-0” H)
2 Projector Mounts

B = Specified and procured through Interior Designer (not furnished by GC)
100 Conference Chairs
13 Conference Tables (6’-0” Diameter)

C = Specified and procured through A/V Consultant (not furnished by GC)
2 Digital Projectors
4 Digital TV Display Monitors
1 Teaching Lectern with A/V Rack inside
A/V and Sound System Rack
AV Equipment Items (to be determined by the University)

D = Specified and procured through I.T. Consultant (not by GC)
N/A

E = Supplied by Owner (in project budget)
N/A

F = Supplied by Owner (not in project budget)
N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
NAME: Seminar Room, Multipurpose Room
Occupancy: 30 Occupants
Net Square Footage: 900 SF
Space No.: 4.3, 5.7

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: Student Success Center
3. Convenient: Locate convenient to both student spaces and faculty spaces.

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.23 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum two locations
   120 V general receptacle outlets, minimum 10' O.C. wall
   120 V ceiling mount for projector
   120 V ceiling mount for projector screen
   120 V receptacle for Teaching Lectern (with A/V rack)
4. Communications: Communication floor outlets, minimum two locations
   Communication ceiling mount outlet for projector
   Communication outlet for Teaching Lectern (with A/V rack)
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: Ceiling mounted Digital Projector
   Ceiling recessed, motorized Projection Screen

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Quiet room to serve as a seminar style classroom. Room may also be used for Faculty Conference Space.

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Teaching Wall
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   8 Marker Boards (8'-0" W x 4'-0" H)
   2 Marker Boards (6'-0" W x 4'-0" H)
   1 Marker Board (3'-0" W x 4'-0" H)
   1 Projector Mount
B = Specified and procured through Interior Designer (not furnished by GC)
   15 Training Tables (60" W x 24" D)
   30 Student Chairs
C = Specified and procured through A/V Consultant (not furnished by GC)
   1 Digital Projector
   1 Teaching Lectern with A/V Rack inside
   AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
SPACE REQUIRED

Name: Conference Rooms, Meeting Room
Occupancy: 4-16 Occupants
Net Square Footage 120-480 SF
Space No.: 3.5, 4.3, 5.7

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Informal gathering area for both faculty and students to meet.

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: Locate convenient to both student spaces and faculty spaces.

Services and Features:
1. Atmospheric Criteria:
   Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination:
   Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.23 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical:
   120 V floor receptacle outlets, quantity per NFPA 70-2017
   120 V general receptacle outlets, quantity per NFPA 70-2017
   120 V receptacles for A/V equipment
4. Communications:
   Communication floor outlets, minimum one location
   Communication outlets for A/V equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video:
   1 Wall mounted, Digital TV Display Monitor

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   1 Marker Board (8'-0" W x 4'-0" H)
B = Specified and procured through Interior Designer (not furnished by GC)
   1 Conference Table (size varies)
   4-16 Conference Chairs
   1 Credenza
C = Specified and procured through A/V Consultant (not furnished by GC)
   1 Digital TV Display Monitor
   AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   N/A
PROGRAM SPACE SHEET: CONFERENCE ROOMS | MEETING ROOM

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: CENTER FOR LIFELONG LEARNING (CLL)

SPACE REQUIRED

Name: Center for Lifelong Learning (CLL) (Executive Conference Center)
Occupancy: 6-50 Occupants
Net Square Footage: 150-1,500 SF
Space No.: 7.6

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Comprises the meeting and breakout rooms, as well as a kitchen, storage and reception area.

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
3. Convenient: Executive Board Room and Colloquium

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.23 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical:
   120 V floor receptacle outlets, minimum two locations
   120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V ceiling mount for projectors, minimum two locations
   (meeting room)
   120 V ceiling mount for projector screens, minimum two locations
   (meeting room)
   120 V receptacle for Teaching Lectern (with A/V rack) (meeting room)
   120 V receptacles for A/V equipment (breakout room)
4. Communications:
   Communication floor outlets, minimum two locations
   Communication ceiling mount outlet for projectors, minimum two locations
   (meeting room)
   Communication outlet for Teaching Lectern (with A/V rack) (meeting room)
   Communication outlets for A/V equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video:
   2 Ceiling mounted Digital Projectors (meeting room)
   2 Ceiling recessed, motorized Projection Screens (meeting room)
   1 Wall mounted, Digital TV Display Monitor (breakout room)

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Teaching Wall
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   13 Marker Boards (8’-0” W x 4’-0” H)
   2 Projector Mounts
B = Specified and procured through Interior Designer (not furnished by GC)
   25 Training Tables (60” W x 24” D) (meeting room)
   50 Student Chairs (meeting room)
   1 Conference Table (breakout room)
   6 Conference Chairs (breakout room)
C = Specified and procured through A/V Consultant (not furnished by GC)
   2 Digital Projectors (meeting room)
   1 Digital TV Display Monitor (breakout room)
   1 Teaching Lectern with A/V Rack inside (meeting room)
   AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: EXECUTIVE BOARD ROOM

SPACE REQUIRED
Name: Executive Board Room
Occupancy: 40 Occupants
Net Square Footage: 1,400 SF
Space No.: 7.7

DESCRIPTION OF FUNCTIONAL REQUIREMENTS
Comprises the board room and adjacent pantry and serving area.

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: Pantry / Serving Area
2. Adjacent: Outdoor Terrace
3. Convenient: Center for Lifelong Learning (CLL) and Colloquium

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.23 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum 7 floor boxes per NFPA 70-2017
   120 V general receptacle outlets, quantity per NFPA 70-2017
   120 V ceiling mount for projectors, minimum four locations
   120 V ceiling mount for projector screens, minimum four locations
   120 V receptacle for Podium (with A/V rack)
4. Communications: Communication floor outlets, minimum two locations
   Communication ceiling mount outlet for projectors, minimum four locations
   Communication outlet for Podium (with A/V rack)
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: 4 Ceiling mounted Digital Projectors
   4 Ceiling recessed, motorized Projection Screens

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Teaching Wall
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   4 Glass Boards (custom size)
   4 Projector Mounts
B = Specified and procured through Interior Designer (not furnished by GC)
   1 Executive Conference Style Table
   40 Conference Chairs
C = Specified and procured through A/V Consultant (not furnished by GC)
   4 Digital Projectors
   1 Podium with A/V Rack inside
   AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: FORUM OF ENGAGEMENT

SPACE REQUIRED

Name: Forum of Engagement (Atrium / Community Gathering Space)
Occupancy: 300 Occupants
Net Square Footage: 4,500 SF
Space No.: 6.1

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: Entry
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 10-20 footcandles
   Lighting Power Density: 0.64 watts per square foot
   Lighting control system with automatic shutoff
3. Electrical: 120 V general receptacle outlets, minimum 10’ O.C. wall
4. Communications: Communication general outlets, minimum one location
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: N/A

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Comprises the lobby atrium, community gathering area, and adjacent storage.

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Terrazzo with Integral base or Polished Concrete with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Combination of Open Ceiling, Acoustical Ceiling Tile, and Gypsum Board
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades at interior. Sun shelves / Fins at exterior.

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   N/A
B = Specified and procured through Interior Designer (not furnished by GC)
   N/A
C = Specified and procured through A/V Consultant (not furnished by GC)
   N/A
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   Tables and Chairs for event purposes
PROGRAM SPACE SHEET: FORUM OF ENGAGEMENT

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.

LEGEND

CASEWORK
BN BENCH
SK SINK
SV SHELVING
WO WORK COUNTER

EQUIPMENT
CP COPIER / PRINTER
CS COMPUTER STATION
EQ EQUIPMENT ITEM
MR MIRROR
PR PROJECTOR / SCREEN
TV TV SCREEN / DISPLAY
WR WIRE SHELVING RACK

FURNITURE
BC BOOKCASE
CC CAFE / DINING CHAIR
CR CARREL DESK
CZ CREDENZA
FP FILE PEDESTAL
GC GUEST CHAIR
ID INSTRUCTOR DESK / LECTERN
LF LATERAL FILE
LS LOUNGE SEATING
MB MARKER BOARD
MM MOBILE MARKER BOARD
OH OVERHEAD STORAGE
SC STUDENT CHAIR
SS STUDENT STOOL
ST STUDENT TABLET ARM CHAIR
T1 TRAINING TABLE
T2 CONFERENCE TABLE
T3 CAFE / DINING TABLE
T4 SIDE / OCCASIONAL TABLE
T5 WORK TABLE
TB TACKBOARD
TC TASK CHAIR
WD WARDROBE
WS WORKSURFACE

OCCUPANTS: 300
SF/EACH: 15

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The University of Tennessee at Chattanooga

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PROGRAM SPACE SHEET: QUIET STUDY AREA | STUDY ROOMS

SPACE REQUIRED

Name: Quiet Study Area, Group Study Rooms
Occupancy: 6-40 Occupants
Net Square Footage: 150-1,200 SF
Space No.: 6.4, 6.5

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: Locate convenient to student spaces.

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.23 watts per square foot
   Lighting control system with automatic shutoff
3. Electrical: 120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V receptacles for A/V equipment
4. Communications: Communication general outlets, minimum one location
   Communication outlets for AV equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: 1 Wall mounted, Digital TV Display Monitor

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Quiet areas for student study.

FINISHES
This section is to record specific requirements for all surface areas.
a. Floor & Base: Carpet Tile with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
  1-2 Marker Boards (8’-0” W x 4’-0” H)
B = Specified and procured through Interior Designer (not furnished by GC)
  STUDY ROOMS:
  1 Conference Table (size varies)
  6-10 Student Chairs
  1 Mobile Marker Board
  QUIET STUDY:
  8 Lounge Seats
  32 Student Chairs
  6 Occasional Tables
  4 Group Work Tables
  16 Carrel Desks
C = Specified and procured through A/V Consultant (not furnished by GC)
  1 Digital TV Display Monitor
D = Specified and procured through I.T. Consultant (not by GC)
  N/A
E = Supplied by Owner (in project budget)
  N/A
F = Supplied by Owner (not in project budget)
  N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: LARGE CLASSROOM

SPACE REQUIRED
Name: Large Classroom
Occupancy: 100 Occupants
Net Square Footage 2,200 SF
Space No.: 1.2

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES
Relationships:
1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.24 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum ten locations
   120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V ceiling mount for projector, minimum two locations
   120 V ceiling mount for projector screen, minimum two locations
   120 V receptacle for Teaching Lectern (with A/V rack)
4. Communications: Communication floor outlets, minimum ten locations
   Communication ceiling mount outlet for projector, minimum two locations
   Communication outlet for Teaching Lectern (with A/V rack)
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: 2 Ceiling mounted Digital Projectors
   2 Ceiling recessed, motorized Projection Screens

DESCRIPTION OF FUNCTIONAL REQUIREMENTS
Large, active learning classroom to accommodate up to 100 students.

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Teaching Wall
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
15 Marker Boards (8'-0" W x 4'-0" H)
4 Marker Boards (3'-0" W x 4'-0" H)
2 Projection Screens (12'-6" W x 7'-6" H)
2 Projector Mounts

B = Specified and procured through Interior Designer (not furnished by GC)
50 Training Tables (60" W x 24" D)
100 Student Chairs

C = Specified and procured through A/V Consultant (not furnished by GC)
2 Digital Projectors
1 Teaching Lectern with A/V Rack inside
AV Equipment Items (to be determined by the University)

D = Specified and procured through I.T. Consultant (not by GC)
N/A

E = Supplied by Owner (in project budget)
N/A

F = Supplied by Owner (not in project budget)
N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: SPECIALTY LAB

SPACE REQUIRED

Name: Financial Trading Lab, Visualization/Data Analytics Lab, Ideation Lab (iLab)
Occupancy: 40 Occupants
Net Square Footage: 1,200 SF
Space No.: 1.1

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships
1. Contiguous: N/A
2. Adjacent: Locate adjacent to Center of Centers.
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.24 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum six locations
   120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V receptacle for Teaching Lectern (with A/V rack)
   120 V receptacles for A/V equipment
4. Communications: Communication floor outlets, minimum six locations
   Communication outlet for Teaching Lectern (with A/V rack)
   Communications outlet for A/V equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: Visualization / Monitor Display Wall System

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Includes the Financial Trading Learning Lab, Visualization/Data Analytics Lab, and Ideation Lab (iLab - Experimental Teaching Lab)

FINISHES
This section is to record specific requirements for all surface areas.
a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Teaching Wall
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   20 Training Tables (60” W x 24” D)
   3-6 Marker Boards (8’-0” W x 4’-0” H)
B = Specified and procured through Interior Designer (not furnished by GC)
   40 Student Chairs
C = Specified and procured through A/V Consultant (not furnished by GC)
   AV Equipment Items (to be determined by the University)
   1 Teaching Lectern with A/V Rack inside
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   40 Student Computers and Monitors
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: MARKETING RESEARCH LAB

SPACE REQUIRED
Name: Marketing Research Lab
Occupancy: 40 Occupants
Net Square Footage: 1,200 SF
Space No.: 1.1

DESCRIPTION OF FUNCTIONAL REQUIREMENTS
Includes carrel desks around room perimeter to hold surveys for market studies, etc.

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships
1. Contiguous: N/A
2. Adjacent: Locate adjacent to Center of Centers.
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.24 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V quad receptacle outlet for computers, minimum ten locations
   120 V ceiling mount for projector, minimum one location
   120 V ceiling mount for projector screen, minimum one location
   120 V receptacle for Teaching Lectern (with A/V rack)
4. Communications: Communication ceiling mount outlet for projector, minimum one location
   Communication outlet for computers, minimum ten locations
   Communication outlet for Teaching Lectern (with A/V rack)
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: Ceiling mounted Digital Projector
   Ceiling recessed, motorized Projection Screen

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Teaching Wall
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   4 Marker Boards (8’-0” W x 4’-0” H)
   1 Projection Screen (12’-6” W x 7’-6” H)
   1 Projector Mount

B = Specified and procured through Interior Designer (not furnished by GC)
   30 Student Chairs
   19 Carrel Desks

C = Specified and procured through A/V Consultant (not furnished by GC)
   1 Digital Projector
   1 Teaching Lectern with A/V Rack inside
   AV Equipment Items (to be determined by the University)

D = Specified and procured through I.T. Consultant (not by GC)
   N/A

E = Supplied by Owner (in project budget)
   N/A

F = Supplied by Owner (not in project budget)
   19 Student Computers and Monitors
PROGRAM SPACE SHEET: MARKETING RESEARCH LAB

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.

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0 4 8 16
NAME: Professional Sales Lab

OCCUPANCY: 30 Occupants

NET SQUARE FOOTAGE: 1,200 SF

SPACE NO.: 1.1

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Includes a boardroom setting for students to practice presentations and/or corporate meetings and small meeting rooms to hold mock interviews. The mock interview rooms include video recording equipment to review and critique the student’s delivery.

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships
1. Contiguous: N/A
2. Adjacent: Locate adjacent to Center of Centers.
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH  
Winter 70°F db  
People Outdoor Air Rate Rp = 7.5 CFM per person  
Area Outdoor Air Rate Ra = 0.06 CFM per square foot  
Pressurization: Neutral  
No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles  
Lighting Power Density: 1.24 watts per square foot  
Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum four locations  
120 V general receptacle outlets, minimum 10’ O.C. wall  
120 V receptacle for Teaching Lectern (with A/V rack)  
120 V receptacles for A/V equipment
4. Communications: Communication floor outlets, minimum four locations  
Communication outlet for Teaching Lectern (with A/V rack)  
Communication outlets for A/V equipment  
Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: 7 Wall mounted, Digital TV Display Monitor  
4 AV system equipped with both audio and video capture at Mock Interview rooms
FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   2 Marker Boards (6'-0" W x 4'-0" H)
   1 Marker Boards (4'-0" W x 4'-0" H)
B = Specified and procured through Interior Designer (not furnished by GC)
   36 Student Chairs
   1 Executive Conference Table
   4 Meeting Tables
C = Specified and procured through A/V Consultant (not furnished by GC)
   7 Digital TV Display Monitor
   1 Teaching Lectern with A/V Rack inside
   4 AV system equipped with both audio and video capture at Mock Interview rooms
   AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
### PROGRAM SPACE SHEET: ACTIVE LEARNING CLASSROOM

**SPACE REQUIRED**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Active Learning Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy:</td>
<td>45 Occupants</td>
</tr>
<tr>
<td>Net Square Footage</td>
<td>1,350 SF</td>
</tr>
<tr>
<td>Space No.:</td>
<td>1.2</td>
</tr>
</tbody>
</table>

**DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES**

**Relationships:**

1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: N/A

**Services and Features:**

1. **Atmospheric Criteria:**
   - Summer: 75°F db / 50% RH
   - Winter: 70°F db
   - People Outdoor Air Rate Rp = 7.5 CFM per person
   - Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   - Pressurization: Neutral
   - No exhaust requirements

2. **Illumination:**
   - Maintained Average Illumination: 30 footcandles
   - Lighting Power Density: 1.24 watts per square foot
   - Preset lighting control system with A/V interface

3. **Electrical:**
   - 120 V floor receptacle outlets, minimum six locations
   - 120 V general receptacle outlets, minimum 10” O.C. wall
   - 120 V receptacle for Teaching Lectern (with A/V rack)
   - 120 V receptacles for A/V equipment

4. **Communications:**
   - Communication floor outlets, minimum six locations
   - Communication ceiling mount outlet for projector, minimum two locations
   - Communication outlets for Teaching Lectern (with A/V rack)
   - Communication outlets for A/V equipment
   - Wireless Internet connectivity

5. **Plumbing:** N/A

6. **Music/Video:** 7-8 Wall mounted, Digital TV Display Monitor

**DESCRIPTION OF FUNCTIONAL REQUIREMENTS**

Standard classroom with active learning components and flexible furniture to support various teaching styles. It supports lectures and student group work / collaboration.

**FINISHES**

This section is to record specific requirements for all surface areas.

| a. Floor & Base: | Carpet Tile Flooring with Rubber Base |
| b. Walls:        | Painted Gypsum Board                |
| c. Ceiling:      | Acoustical Ceiling Tile             |
| d. Doors and Frames: | Wood Doors with Lockable Hardware and Hollow Metal Frames |
| e. Windows:      | Aluminum framed glazed system       |
| f. Window Treatments: | Shades are required if windows are present |

**LIST OF FURNISHINGS & EQUIPMENT**

- **A** = Built-in equipment to be furnished and installed by the General Contractor.
  - 5 Marker Boards (6'-0" W x 4'-0" H)
  - 2 Mobile Marker Boards
- **B** = Specified and procured through Interior Designer (not furnished by GC)
  - 23 Training Tables (60" W x 24" D)
  - 16 Trapezoid Training Tables
- **C** = Specified and procured through A/V Consultant (not furnished by GC)
  - 7-8 Digital TV Display Monitor
  - 1 Teaching Lectern with A/V Rack inside
  - AV Equipment Items (to be determined by the University)
- **D** = Specified and procured through I.T. Consultant (not by GC)
  - N/A
- **E** = Supplied by Owner (in project budget)
  - N/A
- **F** = Supplied by Owner (not in project budget)
  - N/A

---

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
PROGRAM SPACE SHEET: ACTIVE LEARNING CLASSROOM

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.

OCCUPANTS: 45
SF/EACH: 30

LEGEND

CASEWORK
BN BENCH
SK SINK
SV SHELVING
WO WORK COUNTER

EQUIPMENT
CP COPIER / PRINTER
CS COMPUTER STATION
EQ EQUIPMENT ITEM
MR MIRROR
PR PROJECTOR / SCREEN
TV TV SCREEN / DISPLAY
VR WIRE SHELVING RACK

FURNITURE
BC BOOKCASE
CC CAFE / DINING CHAIR
CR CARREL DESK
CZ CREDENZA
FP FILE PEDESTAL
GC GUEST CHAIR
ID INSTRUCTOR DESK / LECTERN
LF LATERAL FILE
LS LOUNGE SEATING
MB MARKER BOARD
MM MOBILE MARKER BOARD
OH OVERHEAD STORAGE
SC STUDENT CHAIR
SS STUDENT STOOL
ST STUDENT TABLET ARM CHAIR
T1 TRAINING TABLE
T2 CONFERENCE TABLE
T3 CAFE / DINING TABLE
T4 SIDE / OCCASIONAL TABLE
T5 WORK TABLE
TB TACKBOARD
TC TASK CHAIR
WD WARDROBE
WS WORKSURFACE

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga

0 4 8 16
PROGRAM SPACE SHEET: ACTIVE LEARNING CLASSROOM

OCCUPANTS: 45
SF/EACH: 30

Active Learning 1,350 SF

LEGEND
CASEWORK
BN BENCH
SK SINK
SV SHELVING
WO WORK COUNTER

EQUIPMENT
CP COPIER / PRINTER
CS COMPUTER STATION
EQ EQUIPMENT ITEM
MR MIRROR
PR PROJECTOR / SCREEN
TV TV SCREEN / DISPLAY
WR WIRE SHELVING RACK

FURNITURE
BC BOOKCASE
CC CAFE / DINING CHAIR
CR CARREL DESK
CZ CREDENZA
FP FILE PEDESTAL
GC GUEST CHAIR
ID INSTRUCTOR DESK / LECTERN
LF LATERAL FILE
LS LOUNGE SEATING
MB MARKER BOARD
MM MOBILE MARKER BOARD
OH OVERHEAD STORAGE
SC STUDENT CHAIR
SS STUDENT STOOL
ST STUDENT TABLET ARM CHAIR
T1 TRAINING TABLE
T2 CONFERENCE TABLE
T3 CAFE / DINING TABLE
T4 SIDE / OCCASIONAL TABLE
T5 WORK TABLE
TB TACKBOARD
TC TASK CHAIR
WD WARDROBE
WS WORKSURFACE

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: ACTIVE LEARNING CLASSROOM

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.

OCCUPANTS: 45
SF/EACH: 30

LEGEND

CASEWORK
BN BENCH
SK SINK
SV SHELVING
WO WORK COUNTER

EQUIPMENT
CP COPIER / PRINTER
CS COMPUTER STATION
EQ EQUIPMENT ITEM
MR MIRROR
PR PROJECTOR / SCREEN
TV TV SCREEN / DISPLAY
WR WIRE SHELVING RACK

FURNITURE
BC BOOKCASE
CC CAFE / DINING CHAIR
CR CARREL DESK
CZ CREDENZA
FP FILE PEDESTAL
GC GUEST CHAIR
ID INSTRUCTOR DESK / LECTERN
LF LATERAL FILE
LS LOUNGE SEATING
MB MARKER BOARD
MM MOBILE MARKER BOARD
OH OVERHEAD STORAGE
SC STUDENT CHAIR
SS STUDENT STOOL
ST STUDENT TABLET ARM CHAIR
T1 TRAINING TABLE
T2 CONFERENCE TABLE
T3 CAFE / DINING TABLE
T4 SIDE / OCCASIONAL TABLE
T5 WORK TABLE
TB TACKBOARD
TC TASK CHAIR
WD WARDROBE
WS WORKSURFACE
PROGRAM SPACE SHEET: ACTIVE LEARNING CLASSROOM

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
Program Space Sheet: Enterprise Studio Classroom

Name: Enterprise Studio Classroom
Occupancy: 40 Occupants
Net Square Footage: 1,400 SF
Space No.: 1.2

Description of Architectural Features & Services

Relationships:
1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.24 watts per square foot
   Preset lighting control system with A/V interface
3. Electrical: 120 V floor receptacle outlets, minimum one location
   120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V ceiling mount for projector, minimum one location
   120 V ceiling mount for project screen, minimum one location
   120 V receptacle for Teaching Lectern (with A/V rack)
   120 V receptacles for A/V equipment
4. Communications: Communication floor outlets, minimum one location
   Communication ceiling mount outlet for projector, minimum one location
   Communication outlet for Teaching Lectern (with A/V rack)
   Communications outlet for A/V equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: Ceiling mounted Digital Projector
   Ceiling recessed, motorized Projection Screen
   2 Ceiling mounted, Digital TV Display Monitors

Description of Functional Requirements

Customized learning space to resemble studio including small meetings space, group iteration/brainstorming area, and group breakout spaces.

Finishes
This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

List of Furnishings & Equipment

A = Built-in equipment to be furnished and installed by the General Contractor.
   12 Marker Boards (8’-0” W x 4’-0” H)
   1 Projection Screen (12’-6” W x 7’-6” H)
   1 Projector Mount
   2 Digital TV Display Monitors
B = Specified and procured through Interior Designer (not furnished by GC)
   3 Small Conference/Meeting Tables
   1 Large Meeting Table
   40 Student Chairs
   4 Mobile Marker Boards
C = Specified and procured through A/V Consultant (not furnished by GC)
   1 Digital Projector
   1 Teaching Lectern with A/V Rack inside
   AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
--- PROGRAM SPACE SHEET: RCOB STUDENT INCUBATOR ---

**SPACE REQUIRED**

Name: RCOB Student Incubator  
Occupancy: N/A  
Net Square Footage: 500 SF  
Space No.: 7.4

**DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES**

Relationships:
1. Contiguous: N/A  
2. Adjacent: N/A  
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria:  
   - Summer: 75°F db / 50% RH  
   - Winter: 70°F db  
   - People Outdoor Air Rate Rp = 7.5 CFM per person  
   - Area Outdoor Air Rate Ra = 0.06 CFM per square foot  
   - Pressurization: Negative  
2. Illumination:  
   - Maintained Average Illumination: 50 footcandles  
   - Lighting Power Density: 1.24 watts per square foot  
   - Preset lighting control system with A/V interface
3. Electrical:  
   - 120 V floor receptacle outlets, minimum two locations  
   - 120 V general receptacle outlets, minimum 10' O.C. wall  
   - 120 V general receptacle outlets, 2'-0" O.C. at casework (above counter)  
   - 120 V quad receptacle for 3D printers/computers, minimum three locations  
   - 120 V receptacles for A/V equipment
4. Communications:  
   - Communication floor outlets, minimum two locations  
   - Communication outlet for 3D printers/computers, minimum three locations  
   - Communications outlet for A/V equipment  
   - Wireless Internet connectivity
5. Plumbing:  
   - 1 casework mounted sink with Hot and Cold Water
6. Music/Video:  
   - 2 Wall mounted, Digital TV Display Monitors

**DESCRIPTION OF FUNCTIONAL REQUIREMENTS**

Space to explore business and/or product development. The space includes two small meeting spaces for group iteration/brainstorming area, an area for students to make things/3D print, and a small product display wall.

**FINISHES**

This section is to record specific requirements for all surface areas.

a. Floor & Base:  
   - Resilient Tile Flooring with Rubber Base
b. Walls:  
   - Painted Gypsum Board
c. Ceiling:  
   - Acoustical Ceiling Tile
d. Doors and Frames:  
   - Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows:  
   - Aluminum framed glazed system
f. Window Treatments:  
   - Shades are required if windows are present

**LIST OF FURNISHINGS & EQUIPMENT**

A = Built-in equipment to be furnished and installed by the General Contractor.
   - 6 Linear Feet of Fixed Casework with Sink (Base Cabinets, Wall Cabinets, Countertops)
   - 1 Marker Board (8'-0" W x 4'-0" H)
   - 2 Digital TV Display Monitors
B = Specified and procured through Interior Designer (not furnished by GC)
   - 2 Small Conference/Meeting Tables
   - 15 Student Chairs
   - 3 Computer Tables
C = Specified and procured through A/V Consultant (not furnished by GC)
   - AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   - N/A
E = Supplied by Owner (in project budget)
   - N/A
F = Supplied by Owner (not in project budget)
   - 3 Student Computers and Monitors
   - 3 3D Printers or desired manufacturing equipment
   - 2 Product Display Cabinets / Shelves

---
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
SPACE REQUIRED
Name: Makerspace
Occupancy: N/A
Net Square Footage: 840 SF
Space No.: 5.3

DESCRIPTION OF FUNCTIONAL REQUIREMENTS
Makerspace and creator space equipped with 3D printers, manufacturing equipment, and other advanced technologies.

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES
Relationships
1. Contiguous: Center of Innovation and Entrepreneurship
2. Adjacent: N/A
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Negative
   Exhaust air at 3D printers/manufacturing equipment
2. Illumination: Maintained Average Illumination: 50 footcandles
   Lighting Power Density: 1.59 watts per square foot
   Lighting control system with automatic shutoff
3. Electrical: 120 V floor receptacle outlets, minimum two locations
   120 V general receptacle outlets, 2'-0" O.C. at casework (above counter)
   120 V quad outlets for 3D printers/computers, minimum two locations
   120 V receptacles for manufacturing equipment, minimum two locations
   120 V receptacles for AV equipment
   120 V cord reels, minimum 2
4. Communications: Communication floor outlets, minimum two locations
   Communication wall outlets for 3D printers/computers, minimum two locations
   Communication wall outlets for manufacturing equipment, minimum two locations
   Communication wall outlets for AV equipment
   Wireless Internet connectivity
5. Plumbing: 1 casework mounted sink with Hot and Cold Water
   1 emergency eyewash and shower
6. Music/Video: 1 Wall mounted, Digital TV Display Monitor

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Resilient Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT
A = Built-in equipment to be furnished and installed by the General Contractor.
12 Linear Feet of Fixed Casework with Sink (Base Cabinets, Wall Cabinets, Countertops)
2 Marker Boards (8'-0" W x 4'-0" H)
1 Fire Extinguisher and Cabinet
B = Specified and procured through Interior Designer (not furnished by GC)
8 Work Tables
2 Computer Tables
2 Student Chairs
6 Stools
C = Specified and procured through A/V Consultant (not furnished by GC)
1 Digital TV Display Monitor
1 AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
N/A
E = Supplied by Owner (in project budget)
N/A
F = Supplied by Owner (not in project budget)
3D Printers and other Manufacturing Equipment
2 Computers and Monitors
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
NAME: Student Development Center

(Tutor / Writing / Resume / Make-up Exam / Communication Lab)

9 Occupants

Net Square Footage: 360 SF

Space No.: 4.3

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:

1. Contiguous: N/A
2. Adjacent: Instructional Design Sound Studio
3. Convenient: N/A

Services and Features:

1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements

2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.24 watts per square foot
   Lighting control system with automatic shutoff

3. Electrical: 120 V general receptacle outlets, minimum 10’ O.C. wall
   120 V quad receptacle outlets for computers, minimum five locations
   120 V receptacle for Teaching Lectern (with A/V rack)
   120 V receptacles for A/V equipment

4. Communications: Communication general outlets, minimum one location
   Communication outlet for Teaching Lectern (with A/V rack)
   Communication outlets for computers, minimum five locations
   Communication outlet for A/V equipment
   Wireless Internet connectivity

5. Plumbing: N/A

6. Music/Video: 1 Wall mounted, Digital TV Display Monitor

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Within the Advising & Career Development shared areas, this space serves as space for tutoring, taking make-up exams, creating and editing resumes, and other advising and career activities.

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   1 Whiteboard (8'-0" W x 4'-0" H)

B = Specified and procured through Interior Designer (not furnished by GC)
   9 Carrel Desks
   9 Student Chairs

C = Specified and procured through A/V Consultant (not furnished by GC)
   1 Digital TV Display Monitor
   1 Teaching Lectern with A/V Rack inside
   AV Equipment Items (to be determined by the University)

D = Specified and procured through I.T. Consultant (not by GC)
   N/A

E = Supplied by Owner (in project budget)
   N/A

F = Supplied by Owner (not in project budget)
   9 Student Computers and Monitors
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
PROGRAM SPACE SHEET: PRODUCTION STUDIO / SOUND

SPACE REQUIRED
Name: Production Studio / Sound
Occupancy: N/A
Net Square Footage: 200 SF
Space No.: 7.1

DESCRIPTION OF FUNCTIONAL REQUIREMENTS
Instructional design and sound.

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: Student Development Center (Tutoring Center)
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria:
   - Summer: 75°F db / 50% RH
   - Winter: 70°F db
   - People Outdoor Air Rate \( R_p = 5 \text{ CFM per person} \)
   - Area Outdoor Air Rate \( R_a = 0.06 \text{ CFM per square foot} \)
   - Pressurization: Neutral
     - No exhaust requirements
2. Illumination:
   - Maintained Average Illumination: 50 footcandles for studio; 30 for offices
   - Lighting Power Density: 1.59 watts per square foot for studio; 1.11 for offices
   - Multi-level lighting control system with automatic shutoff
3. Electrical:
   - 120 V general receptacle outlets, minimum 10’ O.C. wall
   - 120 V quad receptacle outlets for computers, minimum two locations
   - 120 V general receptacles for A/V equipment
4. Communications:
   - Communication general outlets, minimum two locations
   - Communication outlets for A/V equipment
   - Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: Audio and Video Recording Equipment

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit at Teaching Wall
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   N/A
B = Specified and procured through Interior Designer (not furnished by GC)
   4 Computer Tables
   3 Task Chairs
C = Specified and procured through A/V Consultant (not furnished by GC)
   Audio and Video Recording Equipment
   AV Equipment Items (to be determined by the University)
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   4 Computers and Monitors
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
## Program Space Sheet: Private & Shared Offices

### Space Required

<table>
<thead>
<tr>
<th>Name:</th>
<th>Private Office, Shared Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy:</td>
<td>1-4 Occupants</td>
</tr>
<tr>
<td>Net Square Footage:</td>
<td>120-160 SF</td>
</tr>
<tr>
<td>Space No.:</td>
<td>2.1, 3.0, 4.0, 5.0, 7.1, 7.8</td>
</tr>
</tbody>
</table>

### Description of Architectural Features & Services

<table>
<thead>
<tr>
<th>Relationships:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Contiguous:</td>
</tr>
<tr>
<td>2. Adjacent:</td>
</tr>
<tr>
<td>3. Convenient:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Services and Features:</th>
</tr>
</thead>
</table>
| 4. Atmospheric Criteria: | Summer 75°F db / 50% RH  
Winter 70°F db  
People Outdoor Air Rate \( R_p \) = 5 CFM per person  
Area Outdoor Air Rate \( R_a \) = 0.06 CFM per square foot |
| 5. Pressurization: | Neutral  
No exhaust requirements |
| 6. Illumination: | Maintained Average Illumination: 30 footcandles  
Lighting Power Density: 1.11 watts per square foot  
Lighting control system with automatic shutoff |
| 7. Electrical: | 120 V general receptacle outlets, minimum 10’ O.C. wall  
120 V quad receptacle outlet for Faculty desk |
| 8. Communications: | Communication outlet for Faculty desk  
Wireless internet connectivity |
| 9. Plumbing: | N/A |
| 10. Music/Video: | N/A |

### Description of Functional Requirements

Private and shared offices for administrators and faculty (Center for Thought Leadership). Shared offices for adjunct faculty and graduate assistants.

### Finishes

This section is to record specific requirements for all surface areas.

<table>
<thead>
<tr>
<th>a. Floor &amp; Base:</th>
<th>Carpet Tile with Rubber Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. Walls:</td>
<td>Painted Gypsum Board</td>
</tr>
<tr>
<td>c. Ceiling:</td>
<td>Acoustical Ceiling Tile</td>
</tr>
<tr>
<td>d. Doors and Frames:</td>
<td>Wood Doors with Lockable Hardware and Hollow Metal Frames</td>
</tr>
<tr>
<td>e. Windows:</td>
<td>Aluminum framed glazed system</td>
</tr>
<tr>
<td>f. Window Treatments:</td>
<td>Shades are required if windows are present</td>
</tr>
</tbody>
</table>

### List of Furnishings & Equipment

- **A** = Built-in equipment to be furnished and installed by the General Contractor.
- **B** = Specified and procured through Interior Designer (not furnished by GC)
- **C** = Specified and procured through A/V Consultant (not furnished by GC)
- **D** = Specified and procured through I.T. Consultant (not by GC)
- **E** = Supplied by Owner (in project budget)
- **F** = Supplied by Owner (not in project budget)

<table>
<thead>
<tr>
<th>PRIVATE OFFICE:</th>
<th>SHARED OFFICE: (each workstation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Desk / 1 Associated Computer Work Station</td>
<td>1 Desk / 1 Associated Computer Work Station</td>
</tr>
<tr>
<td>1 Task Chair</td>
<td>1 Task Chair</td>
</tr>
<tr>
<td>2 Guest Chairs</td>
<td>1 File Pedestal</td>
</tr>
<tr>
<td>3 Overhead Storage Cabinets</td>
<td>2 Overhead Storage Cabinets</td>
</tr>
<tr>
<td>1 Lateral File Cabinets with 2 drawers</td>
<td>1 Shared Guest Chair (Adjunct Office)</td>
</tr>
</tbody>
</table>

| N/A | N/A |
| N/A | N/A |
| N/A | N/A |
| N/A | N/A |
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
NAME: Administrative Assistant / Reception Spaces / Workroom

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Includes administrative assistant spaces, reception areas, and workroom/supplies/copy areas.

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
18 Linear Feet of Fixed Casework (Base Cabinets, Wall Cabinets, Countertops)
B = Specified and procured through Interior Designer (not furnished by GC)
1 Desk / 1 Associated Computer Work Station
1 Task Chair
1 Overhead Storage Cabinets
1 File Pedestal
6 Guest Chairs
2 Occasional Tables

C = Specified and procured through A/V Consultant (not furnished by GC)
N/A

D = Specified and procured through I.T. Consultant (not by GC)
N/A

E = Supplied by Owner (in project budget)
N/A

F = Supplied by Owner (not in project budget)
1 Copier/Fax/Printer
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
SPACE REQUIRED

Name: Corporate Recruiter Room, Interview Room, Resource Area
Occupancy: 4-10 Occupants
Net Square Footage: 100-300 SF
Space No.: 4.3

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: Student Success Center
2. Adjacent: N/A
3. Convenient: N/A

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 5 CFM per person
   Area Outdoor Air Rate Ra = 0.06 CFM per square foot
   Pressurization: Neutral
   No exhaust requirements
2. Illumination: Maintained Average Illumination: 30 footcandles
   Lighting Power Density: 1.11 watts per square foot
   Lighting control system with automatic shutoff
3. Electrical: 120 V general receptacle outlets, minimum 10' O.C. wall
   120 V receptacles for A/V equipment
4. Communications: Communication general outlets, minimum one location
   Communication outlets for A/V equipment
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: 1 Wall mounted, Digital TV Display Monitor

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Within the Advising & Career Development shared areas, this includes the Corporate Recruiter Room, Resource Area and Interview Rooms.

FINISHES
This section is to record specific requirements for all surface areas.

a. Floor & Base: Carpet Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
N/A
B = Specified and procured through Interior Designer (not furnished by GC)
INTERVIEW ROOM:
1 Small Conference Table
4 Conference Chairs
1 Credenza
10 Stools
5 Counter Height Tables
CORPORATE RECRUITER ROOM:
6 Lounge Seats
1 Occasional Table
C = Specified and procured through A/V Consultant (not furnished by GC)
1-5 Digital TV Display Monitors
D = Specified and procured through I.T. Consultant (not by GC)
N/A
E = Supplied by Owner (in project budget)
N/A
F = Supplied by Owner (not in project budget)
N/A
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
**PROGRAM SPACE SHEET: FOOD SERVICE**

**SPACE REQUIRED**

<table>
<thead>
<tr>
<th>Name</th>
<th>Food Venue, Kitchen/Servery, Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy</td>
<td>30+ Occupants</td>
</tr>
<tr>
<td>Net Square Footage</td>
<td>1,800 SF</td>
</tr>
<tr>
<td>Space No.</td>
<td>6.2</td>
</tr>
</tbody>
</table>

**DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES**

**Relationships:**
1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: Locate convenient to both student spaces and faculty spaces.

**Services and Features:**
1. **Atmospheric Criteria:**
   - Summer: 75°F db / 50% RH
   - Winter: 70°F db
   - People Outdoor Air Rate $R_p = 7.5$ CFM per person
   - Area Outdoor Air Rate $R_a = 0.18$ CFM per square foot
   - Pressurization: Neutral
   - Exhaust requirements to be determined

2. **Illumination:**
   - Maintained Average Illumination: 50 footcandles for food prep; 30 for dining
   - Lighting Power Density: 1.99 watts per square foot for food prep; 0.65 for dining
   - Lighting control system with automatic shutoff

3. **Electrical:**
   - 120 V general receptacle outlets, minimum 10’ O.C. wall
   - 120 V receptacles for kitchen/serving equipment, minimum six locations
   - 208 V receptacles for kitchen/serving equipment, minimum three locations
   - 120 V receptacles for P.O.S. stations, minimum two locations

4. **Communications:**
   - Communication general outlets, minimum one location
   - Communication outlets for P.O.S. stations, minimum two locations
   - Wireless Internet connectivity

5. **Plumbing:**
   - Kitchen Sink

6. **Music/Video:**
   - N/A

**DESCRIPTION OF FUNCTIONAL REQUIREMENTS**

Comprises related food services areas: Food Venue, Kitchen/Servery, and Storage.

**FINISHES**

This section is to record specific requirements for all surface areas.

- **Floor & Base:** Resilient Tile Flooring with Rubber Base
- **Walls:** Painted Gypsum Board
- **Ceiling:** Acoustical Ceiling Tile throughout with Gypsum Board Soffit
- **Windows:** Wood Doors with Lockable Hardware and Hollow Metal Frames
- **Window Treatments:** Shades are required if windows are present

**LIST OF FURNISHINGS & EQUIPMENT**

- **A =** Built-in equipment to be furnished and installed by the General Contractor.
  - 90 Linear Feet of Fixed Casework with sink (Base Cabinets, Wall Cabinets, Countertops)
  - 8 Cafe Tables
  - 30 Cafe Chairs

- **B =** Specified and procured through Interior Designer (not furnished by GC)
  - 8 Cafe Tables
  - 30 Cafe Chairs

- **C =** Specified and procured through A/V Consultant (not furnished by GC)
  - N/A

- **D =** Specified and procured through I.T Consultant (not by GC)
  - N/A

- **E =** Supplied by Owner (in project budget)
  - N/A

- **F =** Supplied by Owner (not in project budget)
  - Kitchen / Servery Equipment
  - Storage Racks
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
NAME: "The Office" (College of Business Pub)

OCCUPANCY: 25+ Occupants

NET SQUARE FOOTAGE: 1,775 SF

SPACE NO.: 6.3

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: Locate convenient to both student spaces and faculty spaces. Faculty-Student Commons to sit in the buffer zone between the two.

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.18 CFM per square foot
   Pressurization: Neutral
   Exhaust requirements to be determined
2. Illumination: Maintained Average Illumination: 50 footcandles for food prep; 30 for dining
   Lighting Power Density: 0.99 watts per square foot for food prep; 0.65 for dining
   Lighting control system with automatic shutoff
3. Electrical: 120 V general receptacle outlets, minimum 10' O.C. wall
   120 V receptacles for kitchen/bar equipment, minimum eight locations
   208 V receptacles for kitchen/bar equipment, minimum six locations
   120 V receptacle for P.O.S. station, minimum one location
4. Communications: Communication general outlets, minimum one location
   Communication outlet for P.O.S. station, minimum one location
   Wireless Internet connectivity
5. Plumbing: Wall hung hand washing
   3-compartment sink
   Gas for kitchen equipment
6. Music/Video: N/A

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Comprises a bar, restaurant, kitchen/servery and storage areas related to food service.

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Resilient Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   65 Linear Feet of Fixed Casework (Base Cabinets, Wall Cabinets, Wall Shelves, Countertops)
B = Specified and procured through Interior Designer (not furnished by GC)
   28 linear feet of Banquette Seating
   10 Cafe Tables
   19 Cafe Chairs
   10 Bar Stools
C = Specified and procured through A/V Consultant (not furnished by GC)
D = Specified and procured through I.T. Consultant (not by GC)
E = Supplied by Owner (in project budget)
F = Supplied by Owner (not in project budget)
   Kitchen / Servery Equipment
   Storage Racks
   Bar Equipment
PROGRAM SPACE SHEET: “THE OFFICE” (COLLEGE OF BUSINESS PUB)

These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.

LEGEND

CASEWORK
BN BENCH
SK SINK
SV SHELVING
WO WORK COUNTER

EQUIPMENT
CP COPIER / PRINTER
CS COMPUTER STATION
EQ EQUIPMENT ITEM
MR MIRROR
PR PROJECTOR / SCREEN
TV TV SCREEN / DISPLAY
WR WIRE SHELVING RACK

FURNITURE
BC BOOKCASE
CC CAFE / DINING CHAIR
CR CARREL DESK
CZ CREDENZA
FP FILE PEDESTAL
GC GUEST CHAIR
ID INSTRUCTOR DESK / LECTERN
LF LATERAL FILE
LS LOUNGE SEATING
MB MARKER BOARD
MM MOBILE MARKER BOARD
OH OVERHEAD STORAGE
SC STUDENT CHAIR
SS STUDENT STOOL
ST STUDENT TABLET ARM CHAIR
T1 TRAINING TABLE
T2 CONFERENCE TABLE
T3 CAFE / DINING TABLE
T4 SIDE / OCCASIONAL TABLE
T5 WORK TABLE
TB TACKBOARD
TC TASK CHAIR
WD WARDROBE
WS WORKSURFACE

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
SPACE REQUIRED

Name: College of Business Retail
Occupancy: N/A
Net Square Footage: 500 SF
Space No.: 7.5

DESCRIPTION OF ARCHITECTURAL FEATURES & SERVICES

Relationships:
1. Contiguous: N/A
2. Adjacent: N/A
3. Convenient: Locate convenient to both student spaces and faculty spaces. Faculty-Student Commons to sit in the buffer zone between the two.

Services and Features:
1. Atmospheric Criteria: Summer 75°F db / 50% RH
   Winter 70°F db
   People Outdoor Air Rate Rp = 7.5 CFM per person
   Area Outdoor Air Rate Ra = 0.12 CFM per square foot
   Pressurization: Neutral
   Changing rooms to be exhausted, per IMC 2012
2. Illumination: Maintained Average Illumination: 50 footcandles
   Lighting Power Density: 1.68 watts per square foot
   Lighting control system with automatic shutoff
3. Electrical: 120 V general receptacle outlets, minimum 10’ O.C.
   120 V receptacle for P.O.S. station
4. Communications: Communication general outlets, minimum one location
   Communication outlet for P.O.S. station
   Wireless Internet connectivity
5. Plumbing: N/A
6. Music/Video: N/A

DESCRIPTION OF FUNCTIONAL REQUIREMENTS

Comprises a retail/apparel area, changing rooms and related storage.

FINISHES

This section is to record specific requirements for all surface areas.

a. Floor & Base: Resilient Tile Flooring with Rubber Base
b. Walls: Painted Gypsum Board
c. Ceiling: Acoustical Ceiling Tile throughout with Gypsum Board Soffit
d. Doors and Frames: Wood Doors with Lockable Hardware and Hollow Metal Frames
e. Windows: Aluminum framed glazed system
f. Window Treatments: Shades are required if windows are present

LIST OF FURNISHINGS & EQUIPMENT

A = Built-in equipment to be furnished and installed by the General Contractor.
   2 - 8 linear feet of Built-in Seating
   15 linear feet of Storage Shelving
   6 linear feet of Casework at check-out station (base cabinet, countertop)
   2 Full Length Mirrors
B = Specified and procured through Interior Designer (not furnished by GC)
   N/A
C = Specified and procured through A/V Consultant (not furnished by GC)
   N/A
D = Specified and procured through I.T. Consultant (not by GC)
   N/A
E = Supplied by Owner (in project budget)
   N/A
F = Supplied by Owner (not in project budget)
   Product Display Cases / Shelving
These diagrams are provided to indicate general furnishings, equipment, and room proportions. Actual room design may differ.
CONCEPTUAL PROJECT TIMELINE

Note: Collaboration and open communication are critical to successfully achieving the milestone goals of any project’s schedule. This preliminary schedule outlines the current understanding of the project and its expected scope, but the designer would create a detailed schedule at the beginning of the project — including all major phases, milestones, review periods, meetings and approvals, as well as pricing and estimating.
# OPINION OF PROBABLE CONSTRUCTION COSTS

The University of Tennessee Chattanooga, Fletcher Hall

Chattanooga, Tennessee

BarberMcMurry Architects with Perkins+Will

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total Contingency</th>
<th>Escalation</th>
<th>Subtotal Construction</th>
<th>Miscellaneous/Other</th>
<th>A/V</th>
<th>FFE/Kitchen Equipment</th>
<th>Miscellaneous/Other Includes</th>
<th>Total</th>
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<tbody>
<tr>
<td>Site Preparation</td>
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<td>$1,000,000</td>
<td>$3,509,000,00</td>
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<td>$350,900,00</td>
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<td>$4,778,455.76</td>
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<td>Telecom</td>
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<td>Hot and Chilled Water Loops</td>
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<tr>
<td>Utility Tunnel</td>
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<tr>
<td>Addition</td>
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<td>$100</td>
<td>$8,168,800</td>
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<td>$10,618,800</td>
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<td><strong>$42,541,400.00</strong></td>
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<td><strong>$12,760,200.00</strong></td>
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<td><strong>$55,301,600.00</strong></td>
</tr>
</tbody>
</table>

These opinions are presented based on BarberMcMurry Architects’ and Perkins+Will’s experience with similar past work and our investigation of your project to date. Adverse market conditions, etc. cannot be anticipated or predicted.

Fees are based on the schedule for State of Tennessee projects: note that fees on some projects may include a multiplier due to renovation or added complexity of work.

Fees include Basic Services of Arch, struct, mech., elect, plum, and fire protection.

Misc./Other includes, among others: reimbursable expenses, civil engineering, landscape architecture, engineering, jurisdictional/fire marshal review, kitchen design, geotechnical and/or construction testing, etc.
Existing Classrooms & Student Lounge space repurposed. Existing Student Success Center renovated and expanded.

Program Legend:
- **1.0 Instructional Space**
- **1.1 Instructional Space - Lab**
- **4.0 Decosimo Student Success Center**
- **5.0 Center of Centers**
- **6.0 Common Areas**
- **7.0 Shared Facilities**
- **8.0 Building Support**
- **8.1.1 Building Circulation**

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
DESIGN IMAGES

The following conceptual design culminates the planning and design process for which the design team embarked. With an overall goal of maximizing the spaces recently (and currently) being renovated within Fletcher Hall in concert with a new transformational comprehensive facilities master plan to create a new Rollins College of Business Complex. One underlying goal was to create a seamless integration of existing Fletcher Hall and the new building.

In response and support of the campus master plan, the new addition forms a new western facing gateway to the UTC campus at the intersection of Oak and Douglas Streets. The four-story addition connections at all levels to the four-levels of Fletcher Hall. Fletcher Hall primarily houses the RCOB administration areas, departmental and faculty offices, food service, flat floor flexible classrooms and a variety of meeting and collaboration areas. The new addition forms a southern and northern wing spanning Oak Street, creating the campus pedestrian “gateway” and houses the Forum of Engagement, the Center of Centers, Center for Lifelong Learning, The Office (COB Pub), RCOB Colloquium, the Executive Boardroom, numerous innovative learning spaces, and a variety of collaboration areas.

The conceptual design is oriented to respect Chamberlain Field and creates an exterior RCOB Courtyard facing east. There are a series of exterior decks and patios facing both east and west. The new addition requires the removal of the existing Development House and adjacent parking areas. The new addition also provides one level of underground parking (32 stalls). The new addition also references the materials found on Fletcher Hall, utilizing a similar color brick and abstracted stone detailing.
CONCEPT IMAGES & MASSING

Birdseye View of Eastern Facade
CONCEPT IMAGES & MASSING

Approach from Chamberlain Field

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
Street View of Western Facade at Intersection of Oak St. and Douglas St., Framing the Campus Pedestrian “Gateway”
Main Atrium Facing South at Level 4

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga

110
Main Atrium Facing North at Level 2 Entry
BUILDING SYSTEMS NARRATIVES
**APPLICABLE CODES**

Tennessee’s codes apply as a mandatory minimum to all buildings except one and two family dwellings and licensed healthcare facilities, except as otherwise indicated. The 2012 International Building Code, excluding Chapters 11 & 34, Section 3411, was adopted August 4, 2016.

Tennessee Building Codes

<table>
<thead>
<tr>
<th>Code Type</th>
<th>Code Model</th>
<th>Amendment</th>
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<tbody>
<tr>
<td>Building/Dwelling Code</td>
<td>IBC 2012(^1)</td>
<td>No</td>
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<tr>
<td>Plumbing Code</td>
<td>IPC 2012</td>
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<tr>
<td>Mechanical Codes</td>
<td>IMC 2012</td>
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<td>Energy Conservation Code</td>
<td>IEC 2012</td>
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<td>2010 ADA Standards for Accessible Design</td>
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<td>1974 State Public Bldg. Accessibility Act</td>
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<td>2002 N. Carolina Handicapped Code w/ 2004 Amendments</td>
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<tr>
<td>Elevator Code</td>
<td>2004 ASME A17.1 Safety Code for Elevators &amp; Escalators</td>
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<tr>
<td>Boiler Code</td>
<td>2010 ASME Boiler &amp; Pressure Vessel Code</td>
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</tr>
</tbody>
</table>

Projects with State Building Commission numbers are required to be reviewed by the TN State Fire Marshal Office. Local zoning ordinances do not apply to State of Tennessee owned facilities. However, property is zoned R-4.

All design building codes required for this project shall be in accordance with the applicable approved codes by the State of Tennessee. In the case of any overlap, the most stringent approved code reference should be applied. The designer shall be responsible for providing a current list of all related codes for this project.

The design team shall be responsible for adhering to any state mandate regarding Building Information Modeling (BIM) interfacing current at the time of design.

\(^1\) Excluding Chapters 11 & 34, Section 3411


\(^3\) With 2011 amendments, Boiler and Elevator Division, (615) 741-2123.

**ASSUMPTIONS**

1. Gross Area: 81,688 GSF addition with 17,000 GSF parking deck below and 16,987 GSF renovation (existing Fletcher Hall is approximately 83,943 GSF). The maximum story area at the addition is approximately 26,172 GSF (the maximum story area at the existing Fletcher Hall building is 24,073 GSF).
2. Approximately 30% of the new addition will be instructional spaces; approximately 18% of the new addition and 68% of the renovation will be administrative spaces. The remainder will be building support spaces.
3. 4 stories in height with a below-grade parking deck.
4. Addition includes an atrium space.
5. 44’ adjacency to closest existing building.
6. New construction and renovation of a portion of the existing building.
7. Project is located within the City of Chattanooga Fire District.

**BUILDING CODES**

**Occupancy Classification**

A. Occupancy Type (IBC 302.1): Business - B; certain parts of the building will have Assembly requirements as well, depending on the sizes of the classrooms and conference spaces.

B. Hazard Type (LSC 6-2): Ordinary Hazard Group 1

**Physical Properties**

A. Table 503 IBC provides the allowable areas per floor based upon construction type and the maximum height allowed for each construction type based upon occupancy types.

1. Type IA - Unlimited height (unlimited); Unlimited Area
2. Type IB - 11 stories height (160 feet); Unlimited Area
3. Type IIA - 5 stories height (65 feet); 37500 GSF per floor
4. Type IIB - 3 stories height (55 feet); 23,000 GSF per floor

B. If the building is fully sprinklered, per IBC 504.2, the maximum height can be increased 20’ and the number of stories increased by one. If sprinklered and multi-story, per IBC 506.3 there is an increase in allowable floor area of 200% per floor. Additionally per IBC 506.2, the floor area can be increased for frontage on a public way or open space. The current scenario has 30’ minimum clearance on all sides.

C. The total allowable area increase needs to be evaluated on an individual design scenario basis. With the current design scenario and with both sprinkler and 30’ minimum frontage increases, the allowable heights and area may be:
Detailed Occupancy Requirements

A. Courts

1. Per IBC 1024, egress courts serving as a portion of the exit discharge component shall be sufficiently open to the exterior to minimize the accumulation of smoke and gases. The required width shall not be less than 44" and shall be unobstructed to a minimum height of 7'. Exit discharge shall provide a direct and unobstructed access to a public way. If access to a public way cannot be provided, a safe dispersal area shall be provided that meets all of the following: sized to accommodate at least 5 SF/person; located at least 50 feet away from the building; permanently maintained and identified as a safe dispersal area; provided with a safe and unobstructed path of travel from the building.

2. Egress courts having window openings on opposite sides shall not be less than 6' in width. Courts shall not be less than 10' in length unless bounded on one end by a public way or yard. For buildings more than 2 stories in height, the court shall be increased 1' in width and 2' in length for each additional story. For buildings exceeding 14 stories, the minimum size shall be computed based on 14 stories.

3. Courts more than 2 stories in height shall be provided with a horizontal air intake at the bottom not less than 10 square feet in area and leading to the exterior of the building unless abutting a yard or public way.

B. Fire Department Access

1. The Authority Having Jurisdiction (AHJ) has the power to require access box (es) to be installed in an accessible area where access to or within a structure is difficult because of security.

2. Approved access roads shall be provided for every facility, building or portion of a building constructed. Fire Department access shall consist of roadways, fire lanes, parking lot lanes or a combination thereof. When fire department access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades, or other similar conditions, the AHJ is authorized to require additional fire protection features. Fire Department access roads shall be provided such that any portion of the facility or any portion of the exterior wall of the first story of the building is not more than 150 feet from Fire Department access roads, as measured by an approved route around the exterior of the facility.

3. Fire Department access roads shall extend to within 50 feet of at least one exterior door that can be opened from the outside and provides access to the interior of the building. When facility is fully sprinklered, this distance can be extended to 450'.

Atriums

1. Per IBC 404, atriums are defined as openings connecting two or more stories other than enclosed stairways, elevators, hoist ways, escalators, plumbing, electrical, air-conditioning or other equipment, which is closed at the top and not defined as a mall. The proposed design includes an atrium that connects 4 stories.

2. A smoke control system will be required in the atrium in accordance with IBC 909. The atrium is required to be separated from adjacent spaces by a 1-hour fire barrier or a glass wall forming a smoke partition with automatic sprinklers along both sides (or on the room side only if there is not a walkway on the atrium side).

3. In other than the lowest level of the atrium, where the required means of egress is through the
atrium space, the portion of exit access travel distance within the atrium space shall be not
greater than 200’. The travel distance requirements for areas of buildings open to the atrium and
where access to the exits is not through the atrium, shall comply with the requirements of IBC
1016.

D. Classrooms
1. Spaces with an occupant load and/or seating count of less than 50 persons shall be classified
as Group B occupancy. Spaces with an occupant load and/or seating count of 50 or more
occupants shall be treated either as Group A-1 (if fixed seating is provided) or Group A-3.

E. Auditorium
1. This space will be classified as Group A-3 occupancy. In planning the existing requirements of
this space the type of seating configurations will need to be examined. If the space is solely used
for fixed seating, then the actual number of the seats should be used for exiting counts. If there
are movable seats similar to a lecture hall, then the concentrated seating factor of 7 SF/person
should be utilized in the existing calculations. If the space is to be set up for tables and chairs
then the seating factor can use 15 SF/person.
2. A seating layout of the minimum number proposed (500 person) for moveable seating of a lecture
hall is to be provided for approval by Facilities Services Project Manager. This layout is to reflect
any special area included within the limits that will be used to access or support the Auditorium
design, such as restrooms, gathering areas, storage, food holding/setup staging, stages, or
similar spaces, including AV and any technical items. The overall Auditorium space shall be
shown with means to subdivide the area into smaller sections by sound-rated folding partitions.

F. Occupancy Signage
1. Every classroom and assembly space is required to have signage that clearly identifies the
maximum allowable occupant count for that space. Size of both the sign and the font must be
approved by the TN State Fire Marshal.
SUSTAINABILITY

STRATEGY

The University of Tennessee Chattanooga recognizes the importance of energy efficiency and sustainable design for campus buildings. Sustainable design considers human and environmental health along with economic and social concerns within the design, construction, and renovation process.

Campus structures are designed with a long life expectancy. The lifetime maintenance of building materials and systems (life cycle costs) should be considered along with capital cost in new constructions and major renovations. Building planning teams should provide a building operation life cycle cost as early as possible in the design process.

The design team’s approach to sustainable design shall, at minimum, adhere to the State of Tennessee’s High Performance Building Requirements (HPBr), while utilizing additional sustainability measures as appropriate. Cutting-edge sustainability practices, including but not limited to, LEED or WELL certification, may be used as both a guideline and measuring stick.

The design team’s pursuit of conceptual energy modeling through the SD and DD phases shall follow the requirements of the HPBr. The goal of such parametric modeling will be to test energy efficiency measures to meet and exceed ASHRAE prescriptive requirements for energy efficiency. It is recommended that an energy performance target, set through benchmarking, be pursued using energy modeling. The baseline for the benchmarking can be from the CBECS 2003 database.

Daylighting performance shall be optimized through variables such as orientation, shading, amount and type of glazing. This analysis will inform the daylighting zone depth, i.e., the amount of electric lighting to be controlled by photosensors. Uniformity of daylight distribution, glare reduction and maximizing lighting energy savings shall be the outcomes of an integrated approach towards daylighting and lighting design. It is recommended that daylighting performance be optimized using climate based daylight metrics such as Daylight Autonomy.

Healthy Building Design

Human health has become a critically important component in designing our built environment. Much like LEED certification was instrumental in the advancement of sustainability in the design and building process, WELL Certification (as documented by the WELL Building Institute) is now becoming a critical planning guide for designing the built environment with health and human comfort as a major consideration. It is important to consider these planning guidelines early in the planning process, so the final design is based on a holistic approach to human health and well-being.

Our conceptual planning for the RCOB Complex already acknowledges several important attributes to enable a more human health focused environment including:

- **Natural Daylight** – the building complex has been designed to maximize access to natural daylight. Classrooms will contain large amounts of glass; study rooms, collaboration areas and community gathering spaces will also benefit from large areas of glass, bringing in an abundant amount of daylight deep into the building.

- **Visible and Tangible Benefits of Nature** – the concept of the new addition is specifically oriented to the quadrangle area of Chamberlain Field to the east. We have oriented much of the public spaces of the complex in this direction, also providing a RCOB exterior courtyard. We would also propose incorporating plants and green walls into the interior environments within the complex.

- **Highlighting Movement within the Complex** – our conceptual planning is deeply committed to providing an environment that embodies all aspect of wellness. Programmatically we have placed the key gathering area as the heart and soul of the complex with multiple opportunities to move entirely within the complex. Light filled primary circulation pathways are placed to provide building users opportunities for exercise and physical activity throughout the day.

- **Interior Amenities** - we recommend and are supporting WELL certification providing indoor and exterior restorative spaces - for contemplation, relaxation, and personal restoration (1 SF per building occupant)

Other detailed aspects of WELL building design and planning we will focus on during further design development include:

- **Indoor Air Quality (IAQ)** – monitoring that is easily accessible and visible including CO2, VOCs, PM2.5

- **Ventilation Effectiveness** - increased ventilation levels, humidity control, moisture control and filtration systems.
BUILDING SITING & Design

Site and design the new building with sustainable practices as an important principle: designing for optimum solar orientation and shading, utilizing existing trees and site features to reduce energy consumption, accommodating stormwater run-off on site. Additionally, site and design the building to preserve valuable campus resources, including historic structures, mature, heritage and champion trees, campus landforms and landmarks, campus traditions, and views.

- Site the building to be compatible with the land planning and site design objectives of UTC’s long-range master plan, strategic plan, and campus design standards.
- Site the building so it provides positive first impressions of the campus for visitors. This is especially true of the major pedestrian gate anticipated with this facility.
- Site the building in a manner that reflects its place on campus. Ensure it positively contributes to the overall integrity of the campus landscape.
- Site the building to create spaces outside the building that are as positive and welcoming as those within. The design process should address the numerical, programmatic, and functional needs and goals, as well as UTC’s emotional and spiritual requirements and preferences.
- Program and design the building so that interior common spaces are located where they can enliven and support exterior gathering spaces, and link the indoor and outdoor spaces with entrances.
- Provide a balance of purpose, costs, use, design durability, and environmental performance.
- Comply with all federal, state, and municipal accessibility standards to ensure that the building and its exterior spaces are accessible to all. All codes to serve as both a guide and a framework to the architecture as it is being designed. The components and systems designed into the building must meet the rigorous standards in order to become part of an overall design strategy that provides the highest safety factor for the structure and the inhabitants.

FINISH FLOOR ELEVATIONS & GRADING

- Program, site and design the building so the structure creates positive at-grade connections for building entrances and successful common spaces wherever they occur, and ensures the provision of daylight to interior spaces.
- Set finish floor elevations for the building that will create a positive setting for the building along adjacent roadways and campus common areas.
- Design to allow the proposed structure to be a part of a flexible network to the surrounding facilities.

VEHICULAR ACCESS

- Locate the required number of accessible parking spaces in a location that will not intrude upon the pedestrian connection(s) between the new building and existing campus features. Provide a simple, accessible route from the accessible spaces to the building that accommodates unmet pedestrian connections so that the route appeals to all users.
- Locate the building’s service area off the service drive where it will not create a desirable building entry point for pedestrians or intrude upon pedestrian connections or accessible parking spaces.
- All traffic and parking should be compatible with the land planning and site design objectives of UTC’s long-range master plan, strategic plan, and campus design standards.
- The existing location of the Campus transit stops in the area are to remain intact at their current locations.
OUTDOOR SPACES

• Design the spaces for the building to enrich the campus with a comprehensive network of campus spaces; the prime consideration must be the spaces’ contribution to the entire campus open space system, not just the enhancement of a particular building.
• Comply with all federal, state, and municipal accessibility standards to ensure that campus spaces are accessible to all.
• Design entry spaces to support but not visually compete with, or obstruct, the architectural definition of the building’s entry in order to support wayfinding and clarity of the campus landscape.
• Size paved gathering spaces to accommodate the number of anticipated daily users rather than the occasional larger function, recognizing that underutilized paved areas near a building can undermine a sense of community on the campus. Employ simple undifferentiated concrete pavement, using smaller jointing patterns to enrich gatherings areas intended for longer use.
• Ensure adequate lighting for outdoor spaces either from the adjacent building faces or canopies or the campus standard pedestrian pole fixture; reserve the use of the campus bollard light for unique situations where the campus pedestrian fixture is not appropriate, recognizing that the required tight spacing of the bollard light can litter and overwhelm the landscape.
• Provide a power supply to outdoor gathering spaces to accommodate individual users and special events.
• Provide bike racks near building entries, in lines or curves that help define pedestrian circulation. Where possible, locate the racks where the building can provide overhead coverage for the parking area.
• Provide trash and recycling receptacles to accommodate users and the ease of maintenance access; at building entries, favor the placement of receptacles inside rather than outside the building.
• Refer to the campus site standards for information on site furnishings.
EXISTING SITE ANALYSIS

View from McCallie Avenue

View from Douglas Street

Aerial view

View from McCallie Avenue

View from Douglas Street
SITE CONTEXT

Fletcher Hall is located at the corner of Douglas Street and McCallie Avenue. The existing building is a four-story structure, currently undergoing renovations. The site is bounded on the south by McCallie Avenue and, across the street, First Church-Christ Scientist. To the west is Douglas Street and Christ-Church Episcopal. Campus extends to the north and east; north is the Development Office and UTC Library; to the east are Founders Hall, Race Hall and Hooper Hall.

SITE FEATURES

A number of site features are important to the quality or character of the site, including its proximity to this historic center of campus life, Chamberlain Field. The site also encompasses the existing pedestrian path created by the extension of Oak Street through the heart of campus. The site also includes an existing house currently used by University Development offices. Other features will require coordination during programming and design.

SITE UTILITY

With Fletcher Hall’s importance of siting in the center of campus also comes the existence of a significant amount of campus infrastructure. Either bisecting or running along the site are campus hot and chilled water loops, water mains, main electrical services, main information technology services, stormwater, sanitary waste, city gas, and city water supplies. The relocation and preservation of these services during construction will be challenging due to the demands on this infrastructure from the campus’s other buildings. The phasing of this work must be carefully coordinated with the academic calendar and Facilities offices of the campus.

SITE DEVELOPMENT

Development of the site will take place extending in a northerly direction from existing Fletcher Hall. The current Development offices will be relocated, and the residence demolished for this project. The addition will extend to the Oak Street pedestrian way, span the street with a pedestrian and service vehicle path, and continue north toward the existing Library. This creates an important pedestrian gateway into the heart of the University’s campus.

An underground, one story parking structure has been envisioned along with this project to add approximately 32 spaces dedicated to visitors to this facility. Originally intended to extend from the existing building north toward the Library, coordination of this with site infrastructure may dictate this structure run in an east-west orientation under the northern-most portion of the addition. The southern wall of this underground structure could then enclose a utility tunnel to facilitate relocation of the utilities necessary to make this project feasible. In this configuration, the parking would total 30-35 spaces. It is envisioned that this portion of the addition be constructed first, so that utilities may be relocated, allowing the balance of the facility to be excavated and constructed where current utilities are located. As you can see from the proposed budget, significant site infrastructure costs have been foreseen to accompany this work.
ARCHITECTURAL NARRATIVE

CONNECTING WITH THE CAMPUS & COMMUNITY

Through careful siting and design, the expanded Rollins College of Business Building at the University of Tennessee at Chattanooga will maximize access to business education and interdisciplinary scholarship by providing a symbolic and physical link between the external business community and academic core of the UTC campus. The new building will present a strong brand image and program identity for the College of Business to the community. It will provide a memorable new west pedestrian gateway entry to the distinctive UTC campus and most significantly, convey the College’s goal to be the premier provider of business education in Tennessee.

RESPECTING CAMPUS

This site bounds the western edge of the historic core of the University of Tennessee at Chattanooga campus. Over time, an ensemble of academic buildings has built up around Oak Street and the adjacent Chamberlain Field. While the field was replaced in 1997 as the primary American football stadium on campus, at the time it was the second oldest on campus college stadium and emotional and historic center of campus events and student gatherings. The original stadium gate remains on Palmetto Street.

The existing Campus experience with a handsome material palette of warm gray limestone and red-brown brick buildings connected by pedestrian paths lined with large mature trees. All is set within a spectacular landscape of rolling natural terrain juxtaposed with the formal outdoor rooms and walks of a cozy public campus.

The planning team followed campus guidelines to study siting options for a new College of Business that will locate undergraduate and graduate programs close to the historic heart of campus, maximize trans-disciplinary collaborations with other professional schools and remain easily accessible to business visitors. After a thoughtful examination of campus functions and character, including traffic patterns, parking locations, landscape zones, future campus buildings and other influences; the planning team arrived at a site and building organization concept that embodies the rich heritage of the UTC campus, respects the forms and massing of the existing Fletcher Hall, and pushes forward the pedagogical objectives of the College of Business.

BUSINESS BUILDING EXPANSION CONCEPT

The site for the expansion of the College of Business is located at the transit & pedestrian focused intersection of Oak Street and Houston Street. This unique west pedestrian gateway location, between the campus center and student residential areas will foster healthy campus connections between the historic education core around Chamberlain Field and the Chattanooga’s surrounding campus residential neighborhoods to the west.

Building programming and planning strategies aim to bridge the major east west pedestrian path through campus to literally form a new gateway to the center of campus. It will gather faculty, student and business outreach functions around a daylit, multi-level atrium that encourages collaboration and interaction in full view of Chamberlain Field, the campus core and surrounding community. By design, the new College of Business will project a bold image of interdisciplinary academics and active business outreach that wholly embraces the character and spirit of the UTC campus.

Major exterior building finishes will include UTC’s red-brown brick with warm gray limestone accents, metal panels to match the limestone, and super-energy efficient/high-performance vision glass. Entry for the four-level College of Business is provided at the first level on both the north and south sides of the gateway from Oak Street pedestrian corridor and at a new second level Student Plaza at the current back doors to Fletcher Hall. At four levels, the building is planned to fit alongside the exiting Fletcher Hall respecting its massing and fenestration patterns. It also fits within the historic body of campus buildings as they visually mass along Houston Street, McCallie Avenue, and Palmetto Street.

The building planning concept utilizes a modular, flexible plan to organize academic space along a single, functional north-south corridor spanning the gateway. This flexible approach allows the program to adapt over time with a diversity of teaching spaces from tiered, case-based classrooms to flexible, flat floor labs and lecture spaces. Classrooms are strategically collocated on the middle levels to leave ample room for visitor-oriented functions at ground level – encouraging walk through pedestrian traffic from parking and ceremonial areas into the core of campus. Ground and second level program includes the Financial Trading Lab, Enterprise “Studio” Classrooms, Outreach Programs, Decosimo Student Success Center, Food Service, Auditorium and Interactive Gathering Atrium with its capacity of 300 attendees for a formal dinner, business presentation, or campus awards celebration. Instructional spaces are located on the first, second and third floors. The fourth level contains executive spaces to simulate professional business environments and includes spaces to host industry partners, fostering community engagement. Team/breakout rooms and student study spaces are located across all levels to support a dynamic learning environment.

Mechanical and building services are at the back of the ground level and connect back to the campus central plant via tunnel along the buried parking tray parallel with Oak Street. The east student courtyard fits with the pedestrian oriented traffic, lawn and green space along Chamberlain Field. The buried parking tray under the north wing of the addition will provide parking for disabled visitors, invited guests, and service access up to the new addition thus removing vehicle traffic from the pedestrian drop off area and walkway along Houston Street.
CONCEPTUAL PROJECT SCHEDULE

The design and construction schedule for the new proposed College of Business addition will depend on the source of funding and timing of the financial model for the project. However, since this project is envisioned as a self-funded project by the University, we might assume that it will be approved through the State Building Commission more quickly than if it was in line for the funding process. It would be hoped that the project could be approved in the next July (2021) cycle of project approvals through the SBC.

Other influencing factors will be the construction delivery method as well as the involvement of any public financing. The schedule will be composed of several steps including:

- Consultant Selection
- Contracts and Authorization
- Program/Concept Verification
- Design (Schematic Design, Design Development, Construction Documentation, Bidding)
- Construction
- Commissioning
- Occupancy

Consultant selection would likely take 2 months. The Program/Concept Verification and Design will be approximately 12-14 months under a normal non-accelerated design process. However, involvement of public funding would increase review periods of this design process and extend this time frame. The construction delivery method would also impact this schedule.

The construction for the new proposed addition and its related site infrastructure would be approximately 24-27 months. Again, the delivery method could impact the length of construction (there are methods that could accelerate this time frame).

The commissioning of the new building is the time period to fine tune the systems of the building prior to moving in. Typically, this is a six to eight-week time frame. In summary, from a notice to proceed with the project to the point at which the occupants of the new College of Business could open their doors is approximately 54 months.
The project consists of an expansion to and partial renovation of the existing Fletcher Hall at the University of Tennessee Chattanooga campus. The governing building code for the project will be determined by the Tennessee State Fire Marshall at the time of design of the project. This narrative is based on the present governing building code which is the 2012 Edition of the International Building Code.

This narrative is based on the Concept Plans Option D provided by Barber McMurry Architects on 08 April 2020.

The new building structure will consist of two basic structural systems. The structural system for the parking garage will include a reinforced concrete system. The structural system for the elevated floors will include a structural steel frame supporting composite concrete and steel deck floor systems and a steel metal deck roof framing system.

**DESIGN CRITERIA BASED ON 2012 IBC PROVISIONS**

**Design Floor Loads**
- Live Loads (reduced as allowed by the Building Code):
  - Auditoriums Areas (Fixed Seating) 60 psf
  - Classroom 40 psf
  - Office Areas 50 psf
  - Lobbies 100 psf
  - Corridors - First Floor 100 psf
  - Corridors - Above First Floor 80 psf
  - Accessibility for Paritions (where applicable) 15 psf
  - Mechanical Rooms 150 psf
- Dead Loads (in addition to the structure self-weight):
  - Finishes 5 psf
  - Ceiling/MEP 10 psf

**Design Roof Loads**
- Live Loads (reduced as allowed by the Building Code):
  - General Building Areas 20 psf
  - Parking Area Between Buildings 230 psf
- Dead Loads (in addition to the structure self-weight):
  - Parking Area Between Buildings 400 psf

**Material Properties**

**Reinforcement**
- Reinforcing Steel ASTM A615, Grade 60
- Post-Tensioning Strand ASTM A416 (270ksi)
The project consists of an expansion to and partial renovation of the existing Fletcher Hall at the University of Tennessee Chattanooga campus. The governing building code for the project will be determined by the Tennessee State Fire Marshall at the time of design of the project. This narrative is based on the present governing building code which is the 2012 Edition of the International Building Code.

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### DESIGN CRITERIA BASED ON 2012 IBC PROVISIONS

#### Design Floor Loads

<table>
<thead>
<tr>
<th>Type of Loading</th>
<th>Live Loads (reduced as allowed by the Building Code)</th>
<th>Dead Loads (in addition to the structure self-weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auditoriums Areas (Fixed Seating)</td>
<td>60 psf</td>
<td>- Finishes: 5 psf</td>
</tr>
<tr>
<td>Classroom</td>
<td>40 psf</td>
<td>- Ceiling/MEP: 10 psf</td>
</tr>
<tr>
<td>Office Areas</td>
<td>50 psf</td>
<td>- Mechanical Rooms: 150 psf</td>
</tr>
<tr>
<td>Lobbies</td>
<td>100 psf</td>
<td>- Corridors - Above First Floor: 80 psf</td>
</tr>
<tr>
<td>Corridors - First Floor</td>
<td>100 psf</td>
<td>- Allowance for Partitions (where applicable): 15 psf</td>
</tr>
<tr>
<td>Corridors - Above First Floor</td>
<td>80 psf</td>
<td>- Mechanical Rooms: 150 psf</td>
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<tbody>
<tr>
<td>General Building Areas</td>
<td>20 psf</td>
<td>- Parking Area Between Buildings: 250 psf</td>
</tr>
<tr>
<td>Parking Area Between Buildings</td>
<td>250 psf</td>
<td>- Corridors - Above First Floor: 80 psf</td>
</tr>
<tr>
<td>Corridors - Above First Floor</td>
<td>80 psf</td>
<td>- Allowance for soil, planting, paving: 400 psf</td>
</tr>
</tbody>
</table>

#### Normal-Weight Concrete

- Slab-on-Grade: 4,000 psi
- Columns: 7,000 psi
- Walls: 7,000 psi
- Framed Beams, Slabs: 5,000 psi
- Slab on Composite Deck: 3,500 psi

#### Concrete Masonry Units

- Minimum compressive strength: 1,350 psi

#### Structural Steel

- W Shapes: ASTM A992, 50ksi
- Round Hollow Tubing: ASTM A500, GRADE B, 42ksi
- Shaped Steel Tubing Walls: ASTM A500, GRADE B, 46ksi
- Misc. Plates: ASTM A36
- Non-High Strength Bolts: ASTM A307
- High Strength Tension Bolts: ASTM A325
- Anchor Bolts: ASTM 1554, 36ksi

#### DESCRIPTION OF STRUCTURAL SYSTEM PARKING LEVEL

**Foundations**
- A geotechnical report will be required to establish criteria for foundation design.

**Parking Garage Level**
- The typical floor slab will be a soil-supported 5-inch-thick concrete slab with WWF 6x6 - W2.9xW2.9 reinforcing.
- Parking garage foundation walls will be 18-inch thick concrete walls with an average of 10 pounds of reinforcing per square foot.

**Lateral Load Resisting System (LLRS)**
- The LLRS will consist of the foundation walls.

**Columns**
- Columns types will include 36 inch x 24 inch concrete columns located within the depth of the parking spaces.

**Elevated/Framed Garage Roof Structure**
- The elevated floor slab system will include a 12 to 18-inch deep two-way concrete slab with drop panels.
- The deeper slab thickness will be required to support the portions of the garage roof subject to heavy soil, planting and emergency vehicle loading.
I. GENERAL

A. Project Description:

1. The new addition and renovation to Fletcher Hall at the University of Tennessee Chattanooga will support the growth of the Gary W. Rollins College of Business. The building will contain education spaces, classrooms, common areas, administrative, and workspace areas. The building addition is estimated to be 82,000 gross square feet and the renovated area in Fletcher Hall is estimated to be 17,000 gross square feet. The parking level is estimated to be 11,100 gross square feet with 32 parking stalls.

2. In general, new services for mechanical and electrical systems shall be provided to serve the addition unless noted otherwise. Designer shall investigate options for combining systems serving the addition with systems serving the existing building.

END

II. HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS

A. Codes and Standards:

1. HVAC systems will comply with the following minimum requirements:

B. Design Conditions:

1. Indoor: 75°F DB, 50% RH summer; 70°F DB winter.
2. Outdoor: 95°F DB, 78°F WB summer; 0°F DB winter.

C. Temperature Control Zones:

1. Corner Offices - one room per zone.
2. Offices with Common Exposure - up to 4 offices on a common zone.
3. Conference and Meeting Rooms - one room per zone.

D. Heating System:

1. Heating will be provided by the campus high temperature heating water system. New piping will be extended from the campus system to the building. See civil narrative for information on modifications to underground campus high temperature heating water system.
2. A shell and tube style heat exchanger will produce lower temperature (~180°F) heating water and building heating water pumps will supply heating water to air handling units, terminal unit reheat coils, unit heaters, and fan-coil units. The heating water system will likely be located in a mechanical room on the lowest level of the building.

3. Heating Water Pumps: horizontal split case type with premium efficiency motors sized to prevent overloading at any point along the pump curve. The pumps will have variable frequency drives to modulate flow to maintain a constant system differential pressure.

4. Piping: Heating water piping 2.5” and larger will be ERW schedule 40 black steel and 2” and smaller will be type L hard drawn copper. Piping will be insulated with preformed fiberglass pipe insulation with white all service jacket with self-sealing lap. Underground high temperature heating water piping will be Class A preinsulated type with seamless ASTM Grade B schedule 40 piping. Heating plant accessories will include expansion tanks, inline air separators, and manual batch type chemical feeder.

E. Cooling System:

1. Chilled water will be provided from the existing central plant chilled water system. New underground chilled water branch lines will extend from the existing mains to the building. See civil narrative for information on modifications to underground campus chilled water system.

2. Chilled Water Pumps: horizontal split case type with premium efficiency motors sized to prevent overloading at any point along the pump curve. The pumps will have variable frequency drives to modulate flow to maintain a constant system differential pressure.

3. Piping: Chilled water piping 2.5” and larger will be ERW schedule 40 black steel, and 2” and smaller will be type L hard drawn copper. Piping will be insulated with preformed cellular glass pipe insulation with all service jacket with self-sealing lap. Underground chilled water piping will be schedule 40 steel, preinsulated with polyurethane foam in an outer FRP or HDPE conduit.

4. A control valve on the chilled water return line will modulate to maintain chilled water return temperature back to the central plant.

F. Air Conditioning Systems:

1. Air handling units serving the addition will be designed for recirculated air with approximately 30-40% minimum outside air. These systems will be provided with airside economizer capabilities. Air handling units will be standard modular, draw-through, factory-fabricated, medium pressure type including the following features:

   a. 2” thick, solid, galvanized steel, double-wall casings with rigid foam insulation between the walls. Perforated inner walls at fan sections for improved acoustic performance.

   b. 12” deep MERV 13 cartridge filters and 2” deep MERV 8 pleated pre-filters.

   c. Heating water type preheat coils with 30°ΔT.

   d. Chilled water type cooling coils with maximum face velocity of 450 FPM, maximum 8 rows of depth, and 16°ΔT.

   e. Air blenders: counter rotation design for mixing of outside air and return air streams.

   f. Premium efficiency fan motors with variable frequency drives.

   g. Fan arrays shall be considered for large air handling units (30,000 CFM and higher).

   h. Relief air fans: to be provided for air handling units with airside economizer cycles. These fans will have variable frequency drives, controlled to an overall balance between outside air intake and relief air discharge.

2. Communications rooms and elevator control rooms in the addition will be served by ductless split systems. Units will be provided with wall-mounted indoor units and outdoor units located on the roof.

3. Mechanical rooms will be ventilated with exhaust fans and heated with unit heaters.

4. Ductwork:

   a. Ductwork will conform to SMACNA recommendations and will have the following static pressure classifications:

      1) From air handling units to supply terminal units: 4” wg.

      2) From terminal units and supply air valves to grilles, registers and diffusers: 2” wg.
3) Return air and toilet exhaust ductwork: -2” wg.
4) Grease exhaust ductwork: -2” wg.

b. Medium-pressure supply ductwork will be factory-fabricated, single-wall, round or flat oval ductwork.

c. Ductwork will be galvanized steel, unless noted otherwise herein.

d. Ductwork will be insulated for energy conservation and to prevent condensation as follows:
   1) Exposed supply air, outside air, and mixed air ductwork will be insulated with 2” rigid fiberglass board insulation finished with 8 oz. canvas set in white lagging adhesive.
   2) Concealed supply air ductwork will be insulated with 2” flexible fiberglass insulation.
   3) Exterior exhaust ductwork will be insulated with 2” mineral wool board insulation finished with 0.020” thick aluminum lagging.

G. Exhaust Systems:
   1. Toilets and janitor closets will be exhausted through a separate toilet exhaust system. Rooms will be exhausted at a minimum rate of 2.5 CFM per square foot. Toilet exhaust will be served by centrifugal power roof fans located on the roof.
   2. 3D printers in the Makerspace and RCOB Student Incubator Room will be exhausted through a separate specialty exhaust system. Specialty exhaust will be served by centrifugal power roof ventilator on the roof.
   3. For College of Business Pub and Food Service spaces, designer shall determine the need for grease exhaust systems. If needed, grease exhaust systems will be separate systems for each kitchen space. Systems will include factory-built grease exhaust ductwork and grease type centrifugal exhaust fans on the roof.

H. Atrium Smoke Control Systems
   1. It is anticipated that the addition will include an atrium as defined by the International Building Code-2012. Atrium smoke exhaust and make-up air systems will be provided to control smoke as required by Section 909 of the International Building Code-2012. Designer shall evaluate options with the use of computational fluid dynamic (CFD) calculations to determine the most cost effective systems that will also be allowable by the Authority Having Jurisdiction.

I. Parking Deck
   1. The below grade parking deck will be ventilated at a rate of 1.5 cfm/ft². Air circulation will be provided by wall type propeller supply and exhaust fans.

J. Automatic Temperature Control Systems
   1. An open-protocol building control system (BCS), including a web-based remote operation system, will be provided to control the chilled water systems, heating water systems, air handling units, exhaust systems, and terminal units. The system will be tied into the existing campus facility management system. Software graphics with pictorial representations of equipment and devices being controlled will be provided.

K. Utility Metering:
   1. Metering will be provided for chilled water and high-temperature heating water. Submetering for high-temperature heating water serving domestic water heating is anticipated.

L. HVAC Testing, Adjusting, and Balancing:
   1. Systems will be tested, adjusted, and balanced to achieve proper operation, design flow, temperature and pressure differentials, and pressure drop through piping, ductwork, equipment, and components.

M. HVAC Systems Commissioning:
   1. The project will require commissioning of HVAC equipment and building control systems as required by the State of Tennessee High Performance Building Requirements.

END
III. PLUMBING SYSTEMS

A. Codes and Standards:
   1. Plumbing systems will comply with the following minimum requirements:

B. Plumbing Fixtures
   1. Water Closets: elongated vitreous china, wall-hung, sensor-activated, flush valve type, 1.28 gallons per flush with white open front seats.
   2. Lavatories: vitreous china, under-mount type, with sensor-activated centerset faucet, 0.5 gpm flow control, and grid strainer.
   3. Urinals: vitreous china, wall-hung, sensor-activated, flush valve type, 0.125 gallons per flush.
   4. Water Fountains: electric, modular type with in-wall chiller, extended round receptors, and bottle filler option.
   5. Sinks: service sinks will be terrazzo, floor type with grid strainer, rim guard and faucet with hose thread outlet, vacuum breaker and wall brace. Break room sinks will be stainless steel, self-rimming type, with swing spout faucet, and 1.5 gpm flow control. Kitchen sinks and faucets will be specified by the Food Service Consultant.

C. Drainage Systems:
   1. Sanitary Drainage System:
      a. Sanitary drain, waste, and vent systems will extend from 5' outside the building to all fixtures and equipment requiring service. Drainage and vent stacks will extend vertically through the roof. The system will be provided with traps, vents, and cleanouts as required by code. Trap primers will be provided for drains susceptible to loss of water seal by evaporation.
      b. Elevator pits will be provided with sump pumps with the discharge piped indirectly to the sanitary system.

   2. Rainwater Drainage System:
      a. Rainwater primary and secondary drainage systems will extend from the roof and gutter drains to 5' outside the building. Piping will extend from these drains to 5' outside the building. Cleanouts will be provided as required by code. Drain bodies and horizontal rainwater primary and secondary piping above grade and within heated spaces will be insulated to prevent condensation. Rainwater secondary drainage piping will be routed independent of other drainage systems and discharge above grade at an observable location.

   3. Piping:
      a. Sanitary and rainwater drainage and vent piping above grade will be hubless cast iron pipe and fittings with heavy duty compression type couplings. Drainage and vent piping below grade will be service weight cast iron pipe and fittings with elastomeric compression joints.

   4. Grease Recovery Systems:
      a. For College of Business Pub and Food Service spaces, designer shall determine the need for grease recovery systems. If needed, grease interceptors will be installed in the kitchen waste system at the outlet of dish machines, pot sinks, and other grease-producing appliances. Interceptors will be located below the floor and will be the semi-automatic type.

D. Domestic Water Systems:
   1. Water Supply:
      a. The water supply will be provided from municipal sources with service separate from fire protection service.
2. Water Service:
   a. The water service will be extended from 5’ outside the building to
      the mechanical room. The water service will be provided with dual
      RPZ type backflow prevention devices in accordance with local
      code. Pressure reducing valves will be provided, as required, to
      control excessive water pressure.

3. Water Distribution:
   a. The addition will be served with horizontal distribution system to
      each fixture group and to vertical risers.
   b. Isolation valves will be provided the building's domestic water
      entrance, at the base or top of each vertical riser, at each branch to
      commons areas serving 2 or more fixtures, and at each wall hydrant
      or equipment connection. Water hammer arresters will be provided
      for shock suppression. Water connections for mechanical system
      make-up will be isolated from the domestic water system by reduced
      pressure backflow preventers.
   c. A central water pressure booster system will be provided to serve
      the upper floors of the building. The system will be duplex type with
      vertical multi-stage pumps and VFD controllers.
   d. Water connections for mechanical system make-up will be isolated
      from the domestic water system by RPZ type backflow preventers.

4. Domestic Hot Water:
   a. The domestic hot water service will be extended from water heaters
      to the plumbing fixtures. Water heaters will be shell and U-tube
      water-to-water heat exchangers with vertical hot water storage
      tanks, using campus high-temperature heating water as the heating
      source. Heater systems will include the necessary control valves,
      expansion tank, pumps, and thermostatic mixing valves.
   b. A hot water circulating pump will be provided to limit temperature
      loss throughout the system to 10°F maximum.
   c. The domestic hot water will be heated to 140°F.
   d. A master thermostatic mixing valve will be installed at the water
      heater to reduce the hot water temperature to the building to 120°F.

5. Piping: domestic water piping within the building will be type L hard copper
   with wrought copper sweat type fittings, and joints using lead-free solder.
   Water piping below slabs on grade will be type K soft copper with no joints
   below slab. Domestic hot and cold water piping will be insulated with
   fiberglass pipe insulation. Fittings will be insulated with preformed
   fiberglass fittings finished with glass fabric and vapor barrier mastic.

E. Fuel Gas Systems:
   1. Gas Service and Distribution Systems:
      a. The fuel gas system will provide natural gas at 14” wg from the gas
         meter outside the building to the food service equipment.
   2. Piping:
      a. Piping above grade will be schedule 40 black steel pipe with welding
         or threaded fittings as required.

F. Plumbing Systems Commissioning
   1. The project will require commissioning of water heating systems as
      required by the State of Tennessee High Performance Building
      Requirements.

END
IV. ELECTRICAL SYSTEMS

A. General:

1. Electrical systems will comply with the following minimum requirements:

B. Primary Distribution System:

1. Primary electrical service to the new addition will originate from the existing UTC campus distribution system. Underground concrete-encased duct bank will be used for primary feeder installation. Medium voltage cables will be single conductor, insulated, thermoplastic jacketed, copper tape shielded, rated for 15000 V 133% insulation level. Conductors will be copper with ethylene propylene rubber insulation. Medium voltage elbows and splices will be furnished.

2. Primary feeders will be routed to a pad-mount primary S&C loop switches. The switches will be located at building exterior adjacent to new pad-mount service transformer. Transformer will be 3-phase, Envirotemp FR3 liquid-filled, self-cooled, 60 Hz, 65°C rise, with primary voltage of 12.47 kV delta, secondary of 480Y/277 V wye. Coils will be copper.

C. Secondary Electrical System:

1. Electrical service for the addition will originate from the new pad-mount service transformer and will be 480Y/277 V, 4-wire, wye connected, grounded neutral. Secondary feeder will be installed in underground concrete-encased duct bank from pad-mount transformer to secondary service switchgear.

2. In general loads will be served as follows:
   a. LED lighting - 277 V.
   b. Motors 0.5 hp and larger - 480 V, 3-phase.
   c. Receptacles and motors 0.33 hp and smaller - 120 V, single-phase through use of step down transformers.

3. Service equipment will consist of a low-voltage switchboard. Service switchboard will be front accessible with individually mounted main and group mounted feeder devices. Switchboard bussing will be copper and will be braced for the available fault current. Main device will be stationary, insulated type circuit breaker and feeder devices will be molded case circuit breakers. Solid state ground fault protection will be provided for main circuit breaker and feeder devices 1000 A and larger. Service switchboard will be provided with integral surge protection device.

4. Service switchboard will be provided with an electronic power monitor to meter multiphase amperes and volts, and power parameters. Main meter will be equipped with communications port for connection to campus SCADA network. Additional sub meters will be provided to record HVAC loads, receptacle loads, and interior/exterior lighting loads as required per ASHRAE 90.1.

5. Feeder risers will be cable in conduit to supply power to distribution and branch circuit panelboards. Branch circuit panelboards will be provided on each floor to serve lighting and receptacles on the same floor. Protective devices in panelboards will bolt-on type circuit breakers. Bussing in panelboards will be copper. Panelboards will have minimum 15% spare circuit breakers plus 10% spaces for future breakers. Dry-type transformers will be provided to serve receptacle and other 120 V loads. Dry-type transformers will be copper wound, 480 delta primary, 208Y/120 V secondary, 220°C insulation, 150°C rise, high-efficiency type.

6. Wiring will be insulated conductors installed in raceways. Conductors will be copper with type THWN/THHN or XHHW insulation. Conductors for power wiring will be minimum #12 AWG and a maximum of 500 kcmil. Separate neutral conductors will be provided for each branch circuit phase conductor. Conductors will be color coded the entire length to indicate various phases, neutral and ground.

7. Raceways will be minimum 0.75" for power and minimum 1" for communications. In general, electrical metallic tubing will be provided for interior wiring installations. Rigid metal conduit will be provided for exposed raceways within the parking deck, raceways serving fire pumps and fire pump control equipment, and other applications. Flexible metal conduits will be provided for connections to recessed luminaires, motors, dry-type transformers, and electrical equipment subject to movement or vibration. Liquidtight flexible metal conduits will be provided for connection to equipment exposed to rain or spray and fire pumps. Cable
trays will be provided to form a system that interconnect all telecommunication rooms and extends throughout corridors and work areas.

8. Electrical systems, circuit and equipment will be grounded and bonded. The maximum resistance of electrical systems to ground will be 5 ohms. A green colored grounding conductor will be installed in raceways with phase conductors.

9. Automatic control of receptacles will be provided for private offices, open offices, and computer classrooms. This control will cover 50% of receptacles in these spaces as required by ASHRAE 90.1.

10. Lightning protection system will be provided and will be the concealed type installed with UL lighting protection inspection certificates.

D. Lighting

1. Generally, interior and exterior lighting will be LED type. Illumination levels for work surfaces will be provided in accordance with IESNA recommended illumination levels. Means of egress will be illuminated per NFPA 101. Interior fixtures will be recessed 2x4s, 2x2s, linears, and downlights. Exterior lighting will be UT campus standard luminaires. Parking deck style luminaires will be provided throughout the parking deck.

2. Lighting control systems will be designed to be as simple as possible while meeting all energy code requirements. Simple switches will be provided as much as possible. Interior spaces will be provided controls for automatic lighting shut-off in accordance with ASHRAE 90.1. Automatic lighting shut-off controls will consist primarily of ceiling-mounted occupancy sensors with local vacancy override switch. Mechanical and electrical rooms will be provided with standard toggle wall switches. Lighting within 15' of glazed exterior walls will be provided with daylight responsive dimming controls including dimming drivers and photosensors. Interior office spaces will be provided with dimming controls. Exterior lighting will be controlled by photocell, timeclock, and contactors.

E. Emergency Power System

1. The Designer will evaluate the ability of the existing emergency power supply system to serve the fire pump options described in Fire Suppression Systems. If required, a new emergency power supply system will be provided for the new addition.

2. The emergency power system will include an engine-generator set, automatic transfer switches, remote annunciator, and accessories to automatically supply power during a utility power failure. Engine-generator set will be provided with a diesel-fueled engine with unit-mounted radiator. Generator will be 480Y/277 V, 3-phase, 4-wire, synchronous type with permanent magnet pilot exciter. The engine-generator set will be located at the building exterior in a weatherproof, acoustically-treated enclosure with a sub-base fuel tank sized to provide 48 hours of runtime at full rated load. Acceptable engine-generator manufacturers will be Caterpillar, Cummins, and Kohler. Automatic transfer switches will be open transition type 4-pole switched neutral.

3. Emergency and standby power system loads:
   a. Egress lighting and exit lights.
   b. Fire detection and alarm systems.
   c. Fire protection systems.
   d. Lighting and receptacles in main and emergency electrical rooms.
   e. Public safety communication systems.
   f. Sump pumps.
   g. Automatic doors for handicap door operators.
   h. Lighting, receptacles, and outlets serving communication equipment rooms.
   i. Cooling systems for communication equipment rooms.
   j. Miscellaneous building loads as required by UTC.

F. Fire Pumps

1. Fire pumps, if needed, will be served from two sources, a dedicated service connection from the new pad-mount service transformer and from the emergency power system. Supply conductors will be kept independent of all other wiring and will be routed outside the building. Supply conductors will connect to a listed fire pump combination controller and transfer switch.

G. Communication Systems

1. A complete communications system (equipment, equipment racks, cabling, duct banks, conduits, pathways, equipment rooms, work area outlets,
wireless LAN, etc.) will be furnished and installed per UTC Information Technology satellite equipment room and structured cabling requirements.

2. Communications service will originate from existing UTC telecommunication manholes. Underground concrete-encased duct bank will extend from existing manhole to building entry room.

3. Exterior pole-mounted site emergency phones will be provided.

4. A distributed antenna system (DAS) may be required to enhance wireless communications within the building.

H. Security Systems

1. Electronic security systems will include an integrated system of intrusion detection, access control and alarm monitoring, and video surveillance. Building exterior entry, classrooms, and multi-purpose event space doors will be provided with electric strikes with access control and alarm monitoring. Classrooms will be provided with UT locking requirements. Video surveillance will be provided at building main entrances and exits. Final connectivity and programming will be by UTC Facility Services.

I. Electrical Systems Commissioning

1. The project will require commissioning of lighting controls systems as required by the State of Tennessee High Performance Building Requirements.

V. FIRE ALARM SYSTEM

A. Codes and Standards:

1. Fire alarm systems will comply with the following minimum requirements:
   d. NFPA 72-2010, National Fire Alarm and Signaling Code.

B. Design Criteria:

1. The fire alarm system serving the addition will be an extension of the existing Simplex fire alarm system serving the existing building.

2. Fire alarm system will be a supervised, local protective signaling system employing multiplex communication and individually addressable initiating devices.

3. Wiring will be installed in metallic raceways.

C. Control Equipment:

1. Control equipment will be modular in construction, UL listed, and housed in a steel cabinet. Operating voltage will be 24 V DC. Standby power will be furnished by a self-contained emergency battery power supply.

2. New fire alarm control panels will include solid state construction, plug-in modules and dead front construction. Signaling line circuits and initiating device circuits will be arranged so that the number of connected devices does not exceed 75% of circuit capacity. The fire alarm annunciator will be an LCD display with minimum 40 character capacity.

3. Speaker circuits will be selectable for 1-way transmission of voice instructions. The circuit selector panel will be mounted adjacent to or integral with the CPU and will include individual zone selector switches, an all-call switch, and a microphone with press-to-call button and coil cord.

4. Remote Annunciators: LCD display type to mimic all outputs from the main fire alarm control panel and will be provided at a location convenient to the building occupants and the fire department.
D. Alarm Initiating Devices:
   1. Alarm initiating devices will include addressable manual pull stations, monitor modules, duct detectors, heat detectors, and smoke detectors. Addressable monitor modules will be provided for nonaddressable devices including sprinkler water flow switches, sprinkler pressure switches, valve tamper switches, and fire pump status.

E. Notification Devices:
   1. Alarm signaling devices will consist of speakers and strobe lights.
   2. Auxiliary functions will be performed by control modules located within 36° of the controls for the equipment to be operated.

END

VI. FIRE SUPPRESSION SYSTEMS

A. Codes and Standards:
   1. Fire suppression systems will comply with the following minimum requirements:
      d. NFPA 14-2010, Installation of Standpipe and Hose Systems.
      e. NFPA 20-2010, Installation of Centrifugal Fire Pumps.

B. Design Criteria:
   1. The addition will be protected throughout by a combined system of Class I wet standpipes and automatic sprinklers.
   2. The underground parking deck and other areas subject to freezing will be protected by a dry pipe sprinkler system.
   3. Systems will comply with the requirements of the University's insurance underwriter.
   4. The Designer will evaluate combining the new additional sprinkler system with the existing building sprinkler system, including fire pump options, as follows:
      a. Option 1 - Upgrade existing fire pump and piping in the existing building to serve the entire building.
      b. Option 2 - Provide new fire pump in addition to serve the entire building. This option would demolish the existing fire pump and fire water entry.
      c. Option 3 - Provide new fire pump in addition to serve the addition only. The existing building fire pump and system would remain.
C. Sprinkler System:
   1. New sprinkler piping will be sized by hydraulic calculations. Mechanical rooms, electrical rooms, and storage areas will be classified Ordinary Hazard Group 1. Other areas will be classified light hazard. Hydraulic design criteria will be in accordance with NFPA 13-2010, Paragraph 11.2.3 as follows:
      a. Light hazard areas will be designed to provide a minimum density of 0.10 gpm/ft². Maximum area per sprinkler will be 225 ft².
      b. Ordinary hazard, Group 1 areas will be designed to provide a minimum density of 0.15 gpm/ft². Maximum area per sprinkler will be 130 ft².
      c. Minimum design area will be the most hydraulically demanding 1500 ft² for wet systems and 2000 ft² for dry systems.
      d. A simultaneous inside hose demand of 100 gpm will be included for light hazard areas and 250 gpm for ordinary hazard areas.
      e. Sprinkler connections on each floor will include a monitored control valve, a flow switch, and a test/drain connection. A drain riser with discharge at the building exterior will also be provided to serve each sprinkler system.

D. Standpipe System: Wet standpipes will be located within heated stairwells. Hose thread pattern will match the local fire department pattern.

E. Sprinkler Heads:
   1. Commercial, quick response, UL listed type.
   2. Sprinklers in areas having lay-in ceilings will be semi-recessed pendent type with a white finish and white ceiling cap. Sprinklers in grid ceilings will be aligned and located in the center of tiles.
   3. Sprinklers in areas having sheetrock ceilings will be concealed type with a finish as specified by the Architect.
   4. Sprinklers in exposed areas will be upright type.

F. Piping: Aboveground piping will be black steel with threaded, grooved, or welded fittings. Piping 2" and smaller will be schedule 40 and pipe 2.5" and larger will be schedule 10. No plain-end fittings, strap-on branch outlets, or couplings employing set screws will be used. Pump suction piping and piping subject to alternate wetting and drying will be galvanized. Underground piping will be cement-lined ductile iron with mechanical joints or HDPE. Underground piping will be anchored with concrete thrust blocks and tie rods.

G. Water Supply: fed from a separate connection to the city mains. A UL-listed, ASSE-approved reduced pressure detector backflow preventer will be installed on the fire water service to isolate the fire suppression systems from the city mains.

H. Fire Pump:
   1. A new electric motor-driven, horizontal split case fire pump will be provided. Size and location of fire pump will depend on the option selected. If new fire pump is to be provided in the addition, it shall be located in a dedicated fire pump room.
   2. Fire department connections (FDC) and fire pump test headers will be provided as needed. These devices will be wall-mounted or freestanding.
   3. Fire pump controllers will be UL listed for use with electric motor-driven fire pumps and will include the motor starter, power transfer switch, and solid-state reduced-voltage starting.

I. Monitoring:
   1. The fire suppression system will be monitored by the building fire alarm system. Monitor points will include trouble and alarm conditions for water flow switches, valve tamper switches, and fire pump status.

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MEETING NOTES: DECEMBER 18, 2019

 UTC Fletcher Hall Programming
 SBC No. 545 005-03 2019/BMA #196300
 Workshop #1 Meeting Notes
 18 December 2019

Attending:

Benjamin Luttrell University of Tennessee Facilities Planning
Kenny Tyler University of Tennessee - Chattanooga (UTC)
Robert Dooley UTC
Stephanie Parrish UTC
Michael Jones UTC
Katrina Craven UTC
Jeff Ziebarth Perkins + Will
Kelly Haedorn BarberMcMurrary Architects (BMA)
Kristin Bowman BMA

The purpose of this meeting was to discuss the project process, review academic goals, review trends in business education & facilities, and conduct a visioning discussion to identify key project drivers.

1. Mr. Kenny Tyler mentioned being interested in looking at taking over the "Development House" to expand on the Fletcher Addition. Possibly including the Development group and Engineering. Also explore if it happens at one time or phases, which could depend on funding.
2. Mr. Robert Dooley believes the funding will be from a private donor, not interested in expanding engineering or other disciplines.
3. The additional scope could include spaces that can be utilized by other departments/colleges such as conference, meeting, or display spaces.
4. If it is decided to demolish the existing Development House, the Development department's new location would need to be planned.
5. It is believed that the building is not on the Historic Register. This will be verified by UTC. Mr. Ben Luttrell noted that any building demolition would be an SBC event, needing their approval. Once the rough scope is defined, we can sketch options including the Development building and without utilizing that portion of the site.
6. Robert prefers to first focus on the needs of the Business college.

Project Approach & Process:
1. Mr. Jeff Ziebarth asked to think about not only the current needs of the Business College but what are the future needs.
2. Fletcher Hall is around 80,000 SF total, four levels each - 20,000 SF.
3. The goal for the Business College is to accommodate 3,000 students. Jeff mentioned that a general rule of thumb for Higher Education buildings is 50-60 SF per student, which would generate a 180,000 SF building or more than twice the current size of Fletcher.
4. The proposed addition of around 44,000 SF could be devoted entirely to the Business college.

5. Robert confirmed that ideally the goal is for all student learning for the Business college to happen within this facility.
6. Students are back on January 6th. Workshop #2 is on the schedule for the week of January 22nd & 23rd. Campus will be closed on the January 20th.
7. The "Dean's Group" will consist of Robert, Stephanie, and Michael.
8. The group discussed who the additional attendees will be for the "Steering Committee."
9. Workshop #2 is #3 will be many 1-1.5 hour meetings, over a two-day period (from Barn-Sprn) with different stakeholder groups. The Steering committee will start and finish the meetings and participate in meetings as they desire.
10. Jeff will rework the master schedule to accommodate this revised date.
11. We will ideally have an impression of the required building size after Workshop #2, then the College can meet with the prospective donor, Mr. Gary Rollins.
12. There will be a basic set of deliverables at the end of this process. The College would like "elevator pitch" images to help for fund raising. Ben noted that if they desire lots of renderings or virtual exhibits, we can prepare proposals for consideration of additional services. There will be an 8-12 page Executive Summary for a quick overview and a larger booklet with the details.
13. The current schedule has programming to be complete around the end of April.
14. Robert asked that we consider a visit to the building at Emory funded by Mr. Rolls. Although it is not a business building, it is an opportunity to see his interests.

Academic Goals & Strategic Plan:
1. Jeff noted several things that he has read about the program: departments, degrees, faculty, specialty programs/initiatives, growth.
2. The Dean's Group noted that the college has added focus in Data Analytics.
3. They expect growth in the undergraduate program.
4. Decosimo Success Center is new, but they have already outgrown the space.
5. The current Fletcher Hall renovation accounted for 25% growth of Faculty.
6. Expecting to add a Sales Program center and can envision a Data Analytics center as well, which could have a mixed use with engineering.
7. They have discussed the idea of a "Center for Centers" which could include a shared admin space, collaboration areas, a space to coordinate/hold activities, etc.
8. Jeff asked the group to consider for future discussions if the adjunct faculty model will continue.
9. The group has discussed having international programs but don't have many. The feeling is there should be more.
10. Current classrooms are designed to hold 40-45 students. There are very few classrooms that hold more than 40-45 students.
11. The group mentioned Mr. Rollins' priorities lead class sizes.
12. "Business Solutions Centers" mentioned in the planning is referring to the Center for Centers.
13. The group could see an enlarged sound studio in the new space. A space for students to record a presentation or a production studio as part of Faculty Engagement.
14. The Fletcher Hall renovation is currently proposed to be complete the summer of 2020; with exception to the first floor, where demolition has not started, so there could be
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Gary W. Rollins College of Business
The University of Tennessee at Chattanooga

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1. Economics and Marketing could hold lectures for 250 students.
2. For instruction purposes/classes, largest class size would be 200-250.
3. Business College has a freshman seminar; 10 sections of 40-45 students.
4. Interactive space works well for these classes.
5. Specialty labs/class labs:
   - Finance.
   - Sales.
   - Data Analytics / Computer space.
   - Teaching Lab - classrooms for teachers to try out new teaching styles.
   - Technology & whiteboard rich spaces.
   - Daylight.
   - Center for Innovation - Current plans are for it to be located in the MAPP Building. The group would like to discuss moving this space to the new Business Building.
   - Center includes a Maker space, collaborative community spaces, active learning space, and a traditional classroom. Around 5,800 SF.
6. POST MEETING NOTE: Stephanie emailed current floor plan for the space to Kristin on January 02, 2020.

4. Administration & Research:
   - Department head suites are included in Fletcher renovation.
   - Faculty offices are currently dispersed throughout Fletcher, intentionally placed.
   - Would like if the Success Center had Advisor offices within the center.
   - Would like to have student faculty collaboration space. Currently none in Fletcher.
   - Currently have the Smile Fund / Bloomberg Lab which impacts 30-40 students, located on the third floor of Fletcher.
   - Currently have an adequate Graduate and Executive Education spaces (admin is delivery spaces).
   - If the Success Center is moved, that space could be utilized by these groups.
   - Don't need a dedicated area but need dedicated space: GA space, meeting, collaborative/active learning space for grad. They want them to feel valued. Current spaces feel like an afterthought.
   - Graduate program growth may look like more online use.
   - Focus is more on undergrad program.
   - Current Exec. Ed and Grad director and recruiter are in their own suite on the second floor of Fletcher but feels hidden.
   - Would like the Dean's Suite to be functional, efficient space, able to accommodate 3-4 visitors but otherwise is not a 'wood walled palace'. That sends the wrong message. Would like a small conference space for 10-12.
   - Need a conference space for advisory boards. Could be up to 50 professionals. Could be a rentable space.
   - Research spaces for Faculty:
     - Informal meeting space / collaborative spaces.
     - The group likes the idea of these happening throughout the building where people bump into one another and not just in specific areas.
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j. Locate food in the new building to bring faculty out of their office space.
   i. Jeff noted the location of the food component is the key to success of
      the mixing of faculty and students.
   k. May want to rebrand administration to "Thought Leadership."

5. Student Experience and Support Activities:
   a. Current Student Success Center:
      i. Seven advisors, admin. assistant, director, recruiter. Beneficial to keep
         these offices together.
      ii. Current interview rooms are poorly designed but would potentially be
         useful if they were designed better. Could double as study rooms.
   b. Tutoring room could be three times larger than its current size. Needs to be
      flexible, to be utilized by different disciplines.
      i. Ideally 30-40 students, with computers.
      ii. Currently have a writing lab in the library.
   c. Student clubs (12) - Currently each have locker and a shared meeting space
to hold presentations, seating for 20. Open welcoming space to be in, but more
   corporate/professional feeling than a lounge space.
   d. Mix of both active and quiet areas are needed. Currently no quiet.
   e. Currently three team study spaces. More team study rooms are needed.
   f. Would like hybrid study spaces.
   g. Food - Aramark is the current food service provider.
   h. Opportunities for students connect with outside businesses:
      i. Lunch and learn with business leaders, networking, resume review, mock
         interviews.
      ii. Currently happens in lobby area and is not ideal and disruptive. Ideally
         this happen in a multi-use space.
      iii. Last networking event had 150-200 students, 30-40 corporate reps.
   i. Would like space for companies to come set up table tents.
      i. Would like reconfigurable multi-purpose space.
   t. "Entrepreneur Hall of Fame" largest event thrown by the college each
year for mostly community members, 250-300 people, high end event.
      i. Would be nice to hold the event on campus but currently there’s not
         adequate space.
   j. Fifty-seat seminar room in success center, would be utilized.
   k. Would like to have a career closet, clothes for students. "Rollins Shop."
      i. Could be located within a bookstore with branded merchandise. Could be
         student-run store.

6. Outreach, Centers & Conferencing Activities:
   a. "Center for Centers" with three or four groups.
      i. Data Analysis, Sales, Entrepreneurship, Free Enterprise.
      ii. Space for student collaboration.
   b. Currently have a small business development center: Free Enterprise Center
   on the third floor of Fletcher.

7. Community, Shared & Support Activities:
   a. Community space / hosting space is drastically needed.
   b. Outdoor space.
   c. Discussed an Alumni space: lounge, reading room or library. Could meet with
      students there.
      i. Want to have an alumni targeted event to bring them back to campus.
   d. "Entrepreneur Hall of Fame" current largest event with 300 people. Other events
      approx. 200-250 people.
      i. Ideally would like to grow that event. If continues to grow a minor kitchen
         for catering might be needed. May need to include Aramark in one of our
         meetings to discuss catering or on-site cooking.
   e. Campus community needs:
      i. Alumni space for whole campus.
      ii. Event space for large groups and a nicer, more intimate space for groups
         around 50-75.
      iii. These event spaces could fall under, help funding by and be utilized by
         Development department. Development is over Alumni.
   f. High end presentation space: high end speaker/lecture, multi-media for 100
      people. This space could be shared with Exec Ed and the rest of campus.

Miscellaneous Items:
1. There was a brief discussion of the scope of work for the program. BMA noted that
   during negotiations of the proposals submitted for this work, Capital Projects
   requested to keep the total dollars below their SBC approved budgets, and
   Perkins-Wil's involvement be limited. UTC asked if that could be changed. BMA
   recalled that Michelle Crowder noted that the University would need to request this
   increase in funding through Facilities Planning. The University stated that they would
   send Bob a request for this. Kelly noted that, with that request, the team already had
   the cost for these added services and related travel to share with Facilities Planning.
2. The College noted that they will likely have to raise all funds for this proposed
   expansion. To accommodate that effort, they would like to request a couple of
   exterior and interior renderings from the design team to assist in their efforts.
3. UTC also requested that any increase also include an increased amount for travel to
   Atlanta to visit the potential donor.

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They are assumed to be complete and correct unless the undersigned is otherwise notified.

Respectfully Submitted,
BarberMcMurry Architects LLC

Kristin Bowman
Interior Designer, NC/IDQ

cc: Kenny Tyler, Benjamin Luttrell, Jeff Ziebarth, Kelly Headden, Megan Chaffin, Kristin
Bowman, File
MEETING NOTES: JANUARY 22, 2020 - LEADERSHIP COMMITTEE

The purpose of this meeting was to kick-off the Focus Group discussions with the Leadership Committee and Steering Committee and review the preliminary Program Space Outline.

1. Jeff Ziebarth gave an overview of items discussed in Workshop #1 to the group.
   a. Project approach, process, and work schedule.
   b. Understanding your goals and strategic plan.

   a. There are three levels of understanding the project vision: Purpose, Greater Purpose, and Design Drivers/Strategic Platform.
   b. Why are we doing this project? What is the bigger picture?
   c. Jeff has provided initial design drivers to be developed further: unify, create, provide, elevate, enable, inspire.
   d. Action Item: Jeff will send this draft for UTC to review and markup before the next Workshop.
   e. Coordinate document changes through Stephanie Parrish.

   a. Jeff gave a brief overview of what was reviewed in Workshop #1.
   b. A goal is to create dynamic spaces to encourage working, learning, and engagement.

   c. Think about how spaces can support each other and overlap, creating dynamic multi-use spaces.

4. College of Business Overview.
   a. Jeff reviewed current goals in place.

5. Existing + Proposed Space Assessment.
   a. The “graduate offices” space planned in the Renovation provides growth in faculty offices and does not represent graduate office space needed.
   b. Jeff reviewed the current renovation status and occupancy statistics of Fletcher Hall.

   c. Jeff reviewed Existing Fletcher Hall Plan Diagram.
      i. Red represents Engagement / Collaboration space.
      ii. Yellow represents Learning space.
      iii. Blue represents Working / Faculty space.
      iv. Jeff noted that the ideal layout is to have each color on every floor.
      v. The group noted that the Student Meeting Room 109 on the first floor is really for community engagement, not just designated for students.
      vi. The classrooms on second floor, based on area, can accommodate 35 students, which is a little smaller than the goal previously discussed of 40-45 students.
      vii. It is a goal to have all student classrooms in the new facility.
      viii. Jeff mentioned that we will want to look at weekly student contact hours to evaluate class size and quantity.
         1. Dr. Kathi Wheatley can be that contact for this information.
         2. Kelly Headden mentioned there could be more discussion on what the ideal class size is for their program.
      xi. Jeff mentioned that they recently did a similar program study for a different department.
      x. Kenny Tyler mentioned that the future location for the Student Success Center is to be determined.
      xii. Career Services 221B1 room should be red in the diagram (collaboration space).
      xiii. The Probasco Suite on the third floor should be greyed out. There is a new chair taking over. The build out of this space is going to be funded separately from the Fletcher renovation.
      xiv. The Probasco Conference Classroom 326 is for the Probasco group to do presentations. It is not multi-use.
      xv. Historically the chair operates separate from the College. Ideally the group would like it to be more integrated in the College and more visible.
      xvi. It could be moved to the new facility, possibly in the Center for Centers.
APPENDICES

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1. Jeff feels this Center should be the show piece of the new building.
2. Jeff confirmed that each Center could share program within the overall center, like board rooms or similar spaces.
3. Dr. Holzhauer would like to have mini-storefronts for students to run their own business.
4. Dr. Holzhauer has heard that COB testing models are moving towards "no longer having tests but contests".

ix. Ideally all centers are located together to create a single resource area for students.

xii. Dr. Holzhauer suggested having a boardroom dedicated for student use.

xiv. In summary, the new building could be around 78,892 SF. The items discussed and edits will alter this number, but Jeff thinks this number is fairly close.

xv. Jeff confirmed that the proposed area includes a factor for the space to feel open, nice, and generous with space.

xvi. When asked about fundraising strategy, Jeff suggested to start by sharing the overall goals, then evaluate the funding received and adjust the program to align with funding opportunities.

xvii. Jeff mentioned in a previous project they put food in the existing building to encourage students to go back to the existing building. We will want to think about including some faculty space in the new building to get faculty to go to the new space. These are things to continue thinking about moving forward.

The minutes contained herein are BarberMcMurry Architects’ understanding of the meeting. They are assumed to be complete and correct unless the undersigned is otherwise notified.

Respectfully Submitted,
BarberMcMurry Architects LLC

Kristin Bowman
Interior Designer, NCIDQ

cc: Kenny Tyler, Benjamin Luttrell, Robert Dooley, Stephanie Parrish, Michael Jones, Jeff Ziebarth, Kelly Headden, Megan Chafin, Kristin Bowman, File
MEETING NOTES: JANUARY 22, 2020 - STUDENT SERVICES

Attending:

Benjamin Luttrell
University of Tennessee Facilities Planning

Kenny Tyler
University of Tennessee - Chattanooga (UTC)

Robert Dooley
UTC

Stephanie Parrish
UTC

Michael Jones
UTC

Katrina Craven
UTC

Sue Culpepper
UTC

Fred Regan
UTC

Dr. Kathi Wheatley
UTC

Dr. Thomas Lyons
UTC

Dr. Hunter Holzhauer
UTC

Dr. Surani Vincent
UTC

Elizabeth Bell
UTC

Jessica Bodet
UTC

Frank Butler
UTC

Sarah Canatsey
UTC

Sandra Cordell
UTC

Christine Estoye
UTC

Kate Gill
UTC

Irene Hillman
UTC

Shari Kappel
UTC

Scott Lyons
UTC

Deborah Mullens
UTC

Michael Owens
UTC

Nikki Owibey
UTC

Libby Santin
UTC

LaDonna Spruill
UTC

Heather Mitchell
UTC

Deandra McGee
UTC

Ashley McKnight
UTC

Brianna Gill
UTC

Chris Brockman
UTC

David Locander
UTC

Kathy Melton
UTC

Catherine Middleton
UTC

Leslie Sheppard
UTC

Sheri Carmichael
UTC

Mo Ahmadi
UTC

UTC Fletcher Hall Programming

Meeting Notes

22 January 2020

Bento Lobo
UTC

Anna Pate
UTC

Jeff Ziebarth
Perkins + Will

Kelly Headden
BarberMcMurry Architects (BMA)

Kristin Bowman
BMA

The purpose of this meeting was to conduct a Focus Group discussion with the focus on Student Services & Experience.

1. Jeff Ziebarth started the meeting by giving an overview of the programming process, timeline, how Business Education is transforming, and discussion points for this Focus Group.

2. Discussion points include: Student Success Center, Resources + Amenities, Student touch-down spaces, Health + Wellness.

3. Academic Advising.
   a. Sue Culpepper started the discussion with reviewing academic advising.
   b. They have a holistic approach to the student experience. Each student is assigned an advisor their first semester that continues to advise them throughout their education. Discussions of students’ future career start early on.
   c. Students are accepted into the College of Business (COB) their freshman year.
   d. There are currently:
      i. (7) academic advisors.
      ii. (1) coordinator of recruiting.
      iii. (2) admin assistants.
   e. The main focus is on undergraduates, more than graduate students.
   f. Each advisor supports 330 students.
   g. Ideally the group would like to have a smaller ratio of students to advisors. This would allow to do more than just student advising sessions.
   h. Students are required to see their advisor once a semester for at least 30 minutes.
   i. The advisors want to offer more programming, workshops, and teach software.
   j. There is a team that conducts sessions to address issues and how to help the students.
      i. This team also manages the internship program.
   k. Graduate student advising is separate from under-grad:
      i. There are currently 250-300 grad students, typically part time, taking night classes.
      ii. Grad students need career development, but not in the aspect of career launches like under-grad students. However, some grad students do need support for career launches.
      iii. Ideally all student services (grad and under-grad) are located within the Student Success Center. Currently had an issue with volume and different set of services.
      iv. The group noted it is very unlikely that the graduate program would transition to a day program.
The group agreed it is ok if grad students use the same space as under-grads but noted that they use the space differently. They have different needs.

Grad students might need a space to work late in the evenings or weekends.

It would be ideal to provide smaller collaboration areas, similar to current team rooms with similar technology. Current library hours aren’t adequate for night students. It could make sense to have identity for each of the programs (grad and undergraduate) but then sharing of similar resources/spaces behind the scenes.

Career services/development:

- This group holds workshops and needs smaller spaces that hold 20-30 people.
- They facilitate opportunities for students to create connections with employers. They have programs that invite employers to the College. The program allows small conversations within large groups and has activities like resume reviewing. They want the space to be inviting and nice for visiting employers. They would like this space to be visible to encourage students to participate. They currently use the Student Lounge for these events.
- Advising is one on one. Students are referred to this Development for further assistance.
- College sends out newsletters and hold luncheons or breakfasts to get 15 to 20 companies come to this event.
- Night at Networking is an established event held by the College. Fifteen to 20 companies come to this event.
- This event turns a traditional “career fair on its head.” Employers jump around from group to group and present to students. In its current location, it can be disruptive to classes.
- The graduate group has 5 staff; the under-grad group has 13 staff.
- It could be convenient for under-grad and grad support spaces to be near each other, but they will need the necessary spaces for each group to function.
- They need clear visual differentiation between the two groups, so students aren’t confused by which area to go to.
- The group agrees that having some shared spaces may make sense, like classroom or meeting space.
- The graduate group has 5 staff; the under-grad group has 13 staff.

Interview Rooms:

- The existing spaces were turned into offices.
- Would like space for 3 people to talk.
- Ideally would like to have 5 interview rooms.
- Grad students also have interviews through Student Success Center.

Recruiting - Jeff encouraged the group to think about if recruiting grows, what would the space look like to bring larger groups to the campus. Currently they can only host a single family at a time.

Tutoring:

- The size of the current space is adequate, but it needs a different layout. It is too narrow, which is distracting for students. Would like space to allow for a group to meet.
- Tutors meet with 10-15 students at one time.
- The group would like a dedicated space for graduate students.

Ideal Student Success Center:

- It could be convenient for under-grad and grad support spaces to be near each other, but they will need the necessary spaces for each group to function.
- They need clear visual differentiation between the two groups, so students aren’t confused by which area to go to.
- The group agrees that having some shared spaces may make sense, like classroom or meeting space.
- The graduate group has 5 staff; the under-grad group has 13 staff.

Tutoring:

- They would like larger study nooks. Currently they fit 3-4 people but have seen students pull furniture together for groups of 8 people.

- The group would like a space for recruitment events that doesn’t have to compete with class space.
- They would like a dedicated space for graduate students.

Tutoring:

- The group would like a small office to tutor remotely. This space could allow for a group to meet.
- Tutors meet with 10-15 students at one time.
- The group would like a dedicated space for graduate students.
- The purpose of a sound center located in Fletcher Hall is to create content for online classes.

- Jeff mentioned labs (professional sales lab) that can incorporate Dr. Holzhauer’s points.
ix. The campus has a writing lab within the English department. The COB students don’t use the campus. The College offered a writing lab within the College, and students didn’t use it much either.

x. The group would like there to be separation between each subject area that’s being tutored.

q. Student Success Center:
   i. The Center holds orientation information sessions a couple times a week for 2 months. There area around 80 people max. This space could possibly be shared with recruiting.
   ii. Adjunct Faculty - there is currently no dedicated space for them to meet with students. Having such space would be useful.
   iii. Ideally the group would like to have a dedicated staff for the Smile Fund, which might need a dedicated office.
   iv. Graduate assistants (GA’s) need space. Currently there are 23 GA’s in the College. They work for several faculty at a time. They need a space that is theirs that and can be secured. Would like there to be space for GA’s to meet with students to review papers, grades, etc.
   v. The group would like a small lounge for graduate students. This space might include dedicated grad meeting space/conference room.
   vi. If there are 24/7 access to areas, there needs to be security measures in place.
   vii. There is a full online MBA program. The group would like all student services to be available online students.
   viii. Stephanie Parrish (a previous grad student) pointed out one benefit to having graduate and under-grad services in the same student success center is so grads feel like they have access to all the resources the College provides. It would also provide a smooth transition for students going from under grad to grad.
   ix. Grad students could use interview rooms as well.

r. Student Lounge & Common Areas:
   i. The group noted that the students like couches, would like a fireplace, and want the space to feel homey.
   ii. They would like to have smaller, more casual student areas spread throughout the space. The current nooks on the second floor of Fletcher Hall are utilized.
   iii. Students might appreciate having a quiet lounge space as well.
   iv. The group feels it would be beneficial to have separate quiet spaces and collaborative space or hang out space.
   v. Fletcher Hall is currently lacking in natural light. The group feels the space could use more natural light.
   vi. The group feels that a convenient central location for printing, copying, scanning, and sending would be beneficial.
   vii. Open computer student lounge - students will need access to computers that have the certain software that students might not have on their own computers. Ideally this open lab would be located in the 24/7 accessed area.
   viii. There are currently 12 student organizations.

s. International programs - The current programs are low profile. But ideally located in the success center for under-grads and grads. They would like a space to hold information sessions and video conferencing.

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Respectfully Submitted,
BarberMcMurry Architects LLC

Kristin Bowman
Interior Designer, NCIDQ

cc: Kenny Tyler, Benjamin Luttrell, Robert Dooley, Stephanie Parrish, Michael Jones, Jeff Ziebarth, Kelly Headden, Megan Chafin, Kristin Bowman, File
The purpose of this meeting was to conduct a Focus Group discussion with the focus on Student Learning.
b. There are some courses that need a traditional classroom setup without computer needs, for 45-50 students.

c. Jeff mentioned that they like to design classes in 20-student modules, which allows for the most efficient use of space.

d. Jeff noted that student projections and student credit hours will influence classroom types and quantities.

e. One faculty member pointed out that computer lab classrooms could be shared by different courses/subjects if specialized hardware isn’t required.

f. The group noted that they would prefer flexible, less bulky furniture.

g. Faculty have had issues with circular tables because the student’s backs are to the teacher and have students cheating.

h. The group was interested in sending out surveys to get student input on classroom layout and size of the individual’s work area.

i. The group would like the ability to have a projector screen offset to one side so they can write on whiteboard and project at the same time. They also would like separate lighting at the projection screen to be able to dim the lighting at the screen. We discussed available technologies, like short-throw projectors, which would allow a single surface to be project and write on.

j. The group noted that having flexible/reconfigurable space to have both group discussions and give lectures is ideal.

k. One faculty member noted that arms on chairs get in the way. They prefer armless chairs in a flexible classroom.

l. Faculty would like enough space between rows so that they can get to the students and allows students to walk between rows while there are people sitting.

m. There is currently no distance learning. The group feels that the college is set back because of the lack of technology.

n. Online learning:
   i. A space that supports lecture capture / recording lectures would be useful. Jeff mentioned that some classrooms could be set up to support adding the technology in the future.
   ii. Faculty would like a space to support faculty recording lectures for online classes. Jeff mention “one-button” studios.

o. Jeff mentioned that there is a Makerspace proposed to be located in the Center for Innovation and Entrepreneurship being located to the new building.

p. Faculty would like a designated place for students to make up exams and supporting testing for online courses.

q. The group would like a “showcase spot”: space to display student accomplishments, photos from international trips, contest winners, etc.

r. Faculty would like the ability to project two different things on two separate monitors, simultaneously in the classrooms.

6. Jeff noted that the proposed program also includes:
   a. Executive Conferencing Center which includes seminar rooms with breakout rooms.
   b. Student team rooms and touchdown study spaces.

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Respectfully Submitted,
BarberMcMurry Architects LLC

Kristin Bowman
Interior Designer, NCIDQ

cc: Kenny Tyler, Benjamin Luttrell, Robert Dooley, Stephanie Parrish, Michael Jones, Jeff Ziebarth, Kelly Headen, Megan Chafin, Kristin Bowman, File
MEETING NOTES: JANUARY 22, 2020 - COMMUNITY OUTREACH

ATTENDING:

Benjamin Luttrell  University of Tennessee Facilities Planning
Kenny Tyler   University of Tennessee - Chattanooga (UTC)
Robert Dooley UTC
Stephanie Parrish UTC
Michael Jones UTC
Katrina Craven UTC
Sue Culpepper UTC
Fred Regan UTC
Dr. Kathy Wheatley UTC
Dr. Thomas Lyons UTC
Dr. Hunter Holzhauer UTC
Dr. Surani Vincent UTC
David Cox UTC
Surani Vincent UTC
Pam Morris Henderson, Hutcherson & McCullough CPA
Roger Smith EPB
Jeff Ziebarth Perkins + Will
Kelly Headen BarberMcMurry Architects (BMA)
Kristin Bowman BMA

The purpose of this meeting was to conduct a Focus Group discussion with the focus on Community Outreach.

1. Jeff started the meeting by giving an overview of the programming process, timeline, how Business Education is transforming, and discussion points for this Focus Group.
2. Discussion points include: Event spaces, business resources, boardroom, access to knowledge and industry partnerships.
3. Jeff reviewed proposed community spaces for the new complex.
4. A current issue is that there’s not convenient parking for outside vendors/businesses coming to visit the College of Business (COB).
5. The group would place a space on campus that invites alumni back to the campus but able to meet over food or drinks. This space could be used for recruiting or faculty recruiting, rather than having to meet with alumni and/or students off campus. The group mentioned the need to have a couple ideas of a nice high-end restaurant or pub on campus.
6. The group noted that the Conference Center could be a revenue generator.
7. Executive Education Leadership Program:
   a. This program involves 20-25 participants (students) and 5-7 companies.

b. The duration of the program is 6 weeks or more, over the span of a year.
c. These are non-credit programs.
d. This space needs to be multi-use. It could be utilized by the COB, other groups on campus, or outside partners/businesses.

8. Parking:
   a. Kenny Tyler noted that the campus currently does not have plans to add parking, unless it is integrated with new housing. Jeff suggested one level of underground parking.
   b. There is currently no nearby parking or easy access to the College.
   c. The group asked to look at including a parking level in the program.

9. Jeff mentioned that the proposed program includes Executive conference space.
10. Jeff gave an overview for the concept of the Center for Centers.
11. A multi-use space that could be used for Career Fair is included in the program.
12. The Alumni / Development office could be located near these spaces used by the community.
13. A member of the group noted that the building façade and signage should point towards the city / be externally focused.
14. The group mentioned that community businesses could sponsor the Centers.
15. Event space – the group would like an outdoor event space that overlooks Chamberland field. This space could be rentable space.
16. The main pedestrian walkway on campus is off Douglas Road. The new building could be a “gateway” to that walkway.
17. The group would like a space to hold conferences and events, rather than using hotel conference centers.
18. The group noted that there have been discussions of adding a hotel on the campus. A hotel on campus could support outside visitors coming to conferences on the campus.
19. The group noted that monitors in the building could be used to sell ad space. Such ads could be seen by students and visiting alumni.
20. The College has discussed collaborating with communication / marketing department to have a Business show or podcast. COB would produce the content and Marketing could produce the end product/podcast. There has been student interest in this idea.
21. COB competitor schools include: TBR schools; MTSU, ETSU, Tenn Tech, Memphis, UTK, and maybe Arizona State University.
22. COB aspirational schools include James Madison, Appalachian State, Colorado State, and maybe Kansas State. Wake Forest, Southern Methodist, Elon, Texas Christian are private schools, but the group likes to look at these to see ways the COB program is expanding.

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Respectfully Submitted,
BarberMcMurry Architects LLC

Kristin Bowman
Interior Designer, NCIDQ

cc: Kenny Tyler, Benjamin Luttrell, Robert Dooley, Stephanie Parrish, Michael Jones, Jeff Ziebarth, Kelly Headden, Megan Chafin, Kristin Bowman, File

ATTENDING:

Benjamin Luttrell University of Tennessee Facilities Planning
Kenny Tyler University of Tennessee - Chattanooga (UTC)
Robert Dooley UTC
Stephanie Parrish UTC
Michael Jones UTC
Katrina Craven UTC
Sue Culpepper UTC
Fred Regan UTC
Dr. Kashi Wheatley UTC
Dr. Thomas Lyons UTC
Dr. Hunter Holzhauer UTC
Dr. Surani Vincent UTC
Elizabeth Bell UTC
Bev Brockman UTC
Sarah Canatsey UTC
Sandra Cordell UTC
Christine Estoye UTC
Kate Gill UTC
Shari Kappel UTC
Scott Lyons UTC
Michael Owens UTC
LaDonna Spruill UTC
Marjorie Whiteside UTC
Ashley McKnight UTC
Brianna Gill UTC
Nikki Ownby UTC
Sarah Wetherill UTC
Jeff Ziebarth Perkins + Will
Kelly Headden BarberMcMurry Architects (BMA)
Kristin Bowman BMA

The purpose of this meeting was to conduct a Focus Group discussion with the focus on Administration and Programming.

1. Jeff Ziebarth started the meeting by mentioning that most have seen the introduction and will forgo the overview.
2. Jeff reviewed the proposed spaces currently included in the program for Admin space.
3. Jeff asked that the group review the staff numbers and inform Stephanie Parrish of any changes.
4. Stephanie mentioned that the number of faculty/staff for each department might be off because graduate assistants (GA’s) should be distributed to each department.
5. Jeff showed the existing floor plans for Fletcher Hall renovation, 3rd and 4th floor.
6. Robert confirmed there are staff for each department.
7. The group informed that GA’s are assigned to certain faculty.
8. The group noted that GA’s need a workspace but not a designated office. They meet with faculty once a week or as needed.
9. There is currently 23 GA’s. Ideally the group would like a work area for all GA’s that has workspace, a printer, and is a secure space.
10. GA’s currently work in different places because they don’t have a designated work area.
11. Currently there is a maximum of (4) student workers, that need a space to work.
12. The current renovation plans for the admin area is a new layout that they haven’t been able to experience yet to see how it works. The renovation has the department heads grouped together. Previously they were spread throughout the building. The change was intentional to help students find their offices.
13. Storage is a need for Admin.
14. The graduate offices need storage, for things for recruiting which can be large bulky items. A central storage location would be ideal. The group would like a 10’x12’ storage room. This could be divided into two separate storage spaces if needed.
15. Jeff noted that ideally there is student-faculty interaction/meeting space on each floor that there are faculty offices.
16. One faculty member mentioned that currently students don’t visit the floors with faculty offices since there’s not learning space on those floors. Jeff mentioned ideally there would be a learning space on the same floor as offices to encourage those interactions.
17. In the Fletcher Hall renovation, there was a high need for faculty offices, which influenced why offices take up a lot of real estate and learning spaces aren’t mixed in with offices.
18. Robert Dooley noted that the number of faculty/staff has increase by 50% over the past 10 years.
19. Staff and Faculty will be able to experience the new Admin area in Fletcher Hall in July to evaluate how this model works.
20. Currently students go to the Student Center for admin needs: registration, advising, etc. They go to faculty for class issues. Go to department heads for larger issues/complaints.
21. The more important spatial relationship/adjacency is between the department heads and faculty, rather than department heads and students.
22. The admin assistants/staff at the open workstations within the Dept. Head Suite would like to have a “docking station” or breakout space that they can take their laptops that’s more private to make phone calls, etc.
23. The group feels that the open office area will be beneficial, but it will be a high traffic area so space for privacy would be useful.
24. The renovation has included space for the potential to add departments. The College of Business (COB) is planning to add departments.

25. Conference Rooms:
   a. The College is planning to have (3) dedicated conference rooms for departments to use that would be considered small (8-12 people).
   b. There is a department that has 23 faculty. Having a large conference room that accommodates 25-30 people would be ideal to hold department meetings. They could use a classroom, but they are difficult to get reserved.
   c. Zoom conferences are increasing.
   d. With the renovation they have added workrooms, which are set up to have interactive screen for small group meetings, docking, or zoom.
   e. Before the renovation they saw that small 8-person conference rooms were being booked for groups of 4 so they hope the added workrooms are a solution to those needs.
   f. Ideally, the group would like to have multiple 30-person conference rooms.
   g. Ledonna Spruill coordinates a lot of the conference room bookings and is aware of the conference space needs of the College.
   h. The meeting room that this Focus Group was held in, which is a large meeting space that can be subdivide into 3 spaces has been positively utilized. The layout gives ability to have food at the back of space and has flexible furniture to reconfigure as needed.

26. Fletcher Hall will have breakrooms/kitchens on 3rd and 4th floor for Faculty/Staff use.

27. Mail Room Process: the College will have a new process in Fletcher.
   a. The temporary location has worked well having a central location with a printer station and is secured.
   b. The renovation plans have the mail room located in the Department Head Suite on the 4th floor. The group hopes the location will encourage interaction between faculty and department heads.
   c. The renovated design includes a printer and workroom space. The room is secured with badge access.
   d. The college is planning to have (3) dedicated conference rooms for departments.

28. The College currently has mail stops at the graduate offices, success center, and dean’s suite.

29. Jeff asked the group how will Faculty be involved with Centers?
   a. The group noted that they will be very involved. Particularly with the Data Analysis center and Sales center.
   b. Jeff asked the group where will faculty sit when in the center?
   c. The group noted that some centers will have directors that are not faculty that will need an office.
   d. Jeff mentioned we don’t want a center that doesn’t have people in them.
   e. The group noted that there might be an administrator to help run the centers. If so, they might need a space for them. This would be a person that’s there at all hours and a point of contact for students.
   f. The group wants to encourage faculty to teach in these labs. But this might restrict student use outside of class.
   g. Dr. Hunter Holzhauer suggested having a side room, like a conference room, that can be used while a class is using the main space. It could be a student team workroom, that still has access to equipment the lab provides.
   h. The group mentioned that there are multiple ways for the faculty to interact with the centers/labs.
i. Jeff thinks the current model (faculty not grouped by department) provides flexibility for faculty that might start to reside in the center.

j. The group feels the center needs to be “outward facing” - they need to be able to work with other adjacent centers.

k. Dr. Holzhauer mentioned a benefit of having faculty offices away from the center is so they can have uninterrupted work/research time. Having an office next to the lab, the students constantly interrupt work.

l. The group feels that the labs need to have 24-hour access. The trading lab could be multifunctional and accessible 24/7. The space would be used for teaching as well as research and time to manage the student fund. One potential is to have a satellite space adjacent to the lab to provide a smaller and more flexible trading lab space during class and non-class hours.

m. The group noted that each Center should be tied to a particular curriculum.

n. Dr. Holzhauer noted that “technology is what’s going to drive the arms race of business schools.”

o. The group would like the spaces to be designed in a way that if the center/lab changes, the space can adapt and change in the future.

30. Jeff noted that 30% of COB space is going to be offices. “Work place” trends are starting to make its way into education where there is less designated office space.

31. Robert noted that the current renovation plans allow for 25% growth in faculty.

32. Jeff mentioned this programming exercise is essentially a master plan for the COB. There will need to be a discussion if the new building would need to be executed in phases.

33. One mentioned they would like the building design to allow the spaces to be renovated easily for future additions/changes.

34. Jeff mentioned a project that utilized raised access flooring for ultimate flexibility (services in the floor vs. the walls). The added benefit is providing displacement ventilation which supports other sustainability and healthy environment strategies.

35. Jeff noted his office is “Free Address”, no assigned desks, which allows flexibility for staff to adjust, move, and collaborate as needed.

36. Stephanie suggested that the Free Address model might work well for Adjunct Faculty and GA’s.

37. The group noted that each semester has around 30-40 adjunct faculty.

38. The College could have growth online that doesn’t require class space but only support spaces.

39. The group noted that “hybrid teaching” (teaching online and on campus) for the College is continuing to grow. These classes might require less classroom time in the future.

The minutes contained herein are BarberMcMurry Architects’ understanding of the meeting. They are assumed to be complete and correct unless the undersigned is otherwise notified.
The purpose of this meeting was to conduct a Focus Group discussion with the focus on Community and Shared Resources.

1. Jeff Ziebarth started the meeting by showing precedent images that show what the Community and Shared spaces might look and feel like.
2. Jeff reviewed the proposed Common spaces currently included in the program.
   a. A large community gathering / multi-use space.
   b. A food element, depending on the University food contracts. This space wouldn’t have much cooked food but more like ‘grab and go’ food or coffee shop.
   c. Student study spaces and collaboration areas.
      i. Jeff noted that Higher Ed trends are going towards smaller study rooms, sized for 3-4 students or smaller, even 1-2 person huddle areas.
      ii. The building would also provide spaces for large group meetings as well.
3. Student study spaces:
   a. The Library should be able to give analytical data of how the different meeting room sizes are utilized. They currently have small, medium, and large meeting rooms.
   b. Action Item: Stephanie Parrish will get the contact information for who can provide that information.
4. Robert Dooley confirmed that currently there is no large atrium on campus. Jeff mentioned the community room will need to be highly utilized and need to be managed. Kenny Tyler mentioned that there is an upcoming space in the Lupton Building that will have access to food and soft sitting.
5. Dr. Hunter Holzhauer asked what the feasibility is of connecting the new building to the library. He thinks it would be great to connect to two, even if only providing a covered pathway would be nice.
6. Event Space: The group would ideally like if this space could be rented out.
7. Jeff mentioned that ideally the Conferencing Center would be controlled by the College of Business (COB).
8. The College currently has trouble getting graduate students to network with each other. Currently there’s no place for that interaction to happen.
9. The group noted that they currently have an issue with (the lack of) parking for outside businesses and visitors.
10. The group noted that ideally the Boardroom would be utilized by outside groups. The space could also provide a learning opportunity for students to interact with professionals in a board room setting.
11. The group would like to incorporate Chattanooga’s identity in the design: ‘Gig City’, local whiskey & craft beer businesses, Chattanooga choo-choo, ‘Bridge City’.
   a. Historical ties between the College and Chattanooga include: Lookout Mountain, Entrepreneur Hall of Fame.
   b. Robert recalled a conversation he had with Mr. Gary Rollins. Mr. Rollins mentioned wanting to collect and preserve history/information about the College.
   c. The group noted that the display of historical information could be tied into the Alumni space.
   d. The group would like the display to be more interactive than names on a wall.
   e. Action Item: Stephanie to send information about the industry and alumni history ties to the College.
f. The display should be thoughtful in its focus on the hall of fame to support diversity and inclusivity.
g. One noted that it could focus on companies/businesses/ideas more than the people to support diversity.
h. The Chattanooga History Museum closed, and a lot of its content is now in the UTC library.
14. Jeff mentioned that the proposed program also includes the Business Solutions Center.
15. The group would like to include a rooftop space to take advantage of the views.
16. The idea of possibly having two pubs was discussed; one within the student area and another ‘Mountain City Pub’ at the top of the building to host donors, that away from student area which might make it more feasible to achieve if there are issues with alcohol at student areas.
17. Jeff reviewed the group’s sustainability goals of natural daylight, health & well-being of occupants, potentially WELL and Fitwell certifications.
18. The group requested that inner offices be designed to feel more open and have access to natural daylight.
19. Jeff explained Net-Zero buildings. He also mentioned that there are levels to sustainability, and we need to understand where the COB’s goals fit into that spectrum of sustainability.
20. Kelly mentioned most opportunities for awards for sustainability come from Net-Zero buildings or Living building challenge.
21. Jeff concluded that the WELL Building certification might be more achievable or appropriate for this building.
22. One proposed including a sensory room for students through the Disability Resource Center (DRC), that is light and sound sensitive. There are temporary rooms located in the library for students to calm down that might be over stimulated.
23. The group would like a space to showcase student work. They noted that it could be incorporated in the museum area. Or there could possibly be multiple areas with storefronts to allow displaying student work.
24. The group reiterated that they would like the history integrated as an experience rather than a destination/single room.
25. Student Input:
   a. There are students interested in having dedicated retail area for students to sell their products to other students. They would like a storefront space to showcase the product they sell. The student noted that there are multiple students that have created products.
   b. They would also like more casual spaces, like a rec room with ping pong, shuffleboard, etc. He noted that the company he interns for (and companies alike) are incorporating these types of spaces in their office culture.

The minutes contained herein are BarberMcMurry Architects’ understanding of the meeting. They are assumed to be complete and correct unless the undersigned is otherwise notified.
MEETING NOTES: JANUARY 22, 2020 - LEADERSHIP COMMITTEE II

Attending:

- Kenny Tyler  
  University of Tennessee - Chattanooga (UTC)

- Robert Dooley  
  UTC

- Stephanie Parrish  
  UTC

- Michael Jones  
  UTC

- Katrina Craven  
  UTC

- Sue Culpepper  
  UTC

- Fred Regan  
  UTC

- Dr. Kachi Wheatley  
  UTC

- Dr. Thomas Lyons  
  UTC

- Dr. Hunter Holzhauer  
  UTC

- Jordan Camp  
  UTC Student Representative

- Jeff Ziebarth  
  Perkins + Will

- Kelly Headden  
  BarberMcMurry Architects (BMA)

- Kristin Bowman  
  BMA

The purpose of this meeting was to review the findings from the Focus Groups, discuss the proposed program again, and discuss next steps.

1. Jeff Ziebarth pointed out that the Focus Groups were very successful and that we are going to review some of the larger points of the findings.

2. The group noted that satellite lab space for specialty labs could be useful.
   a. There is a laptop that contains the Bloomberg lab information that could be utilized in that space. The laptop is currently used by faculty, but they could have a second laptop with the same software that could be used by students.
   b. Dr. Hunter Holzhauer mentioned it would likely be more important for it to be located in the Center for Centers.

3. The group discussed the adjacency of the Bloomberg lab to the Center for Centers.
   a. Jeff mentioned that he could see the Trading Lab as a standalone space, separate from the Center for Centers.
   b. Jeff noted that based on the Focus Group meetings, that graduate assistants need more space.

4. Additionally, a large 30-person conference space needed, separate from a classroom, for faculty and staff use.

5. Jeff noted that we need more information about the spatial needs of Career Services, Development and Advising.

6. Currently the graduate program is not located within student center. The Fletcher Hall renovations have it on the same floor as the student center but across the hall.
   a. The group noted that there could be shared spaces between the two (graduate and under-grad).  
   b. Jeff mentioned that the two groups could be within same area but have separate entries?

7. The group would like at least one classroom to support high-tech analytics.
   a. There are currently 3 labs that support data analytics and other technology based courses within the College.
   b. The group wondered if that lab could be shared/used by other curriculums.
   c. The group would like a "Visualization lab" - this space could be used by other curriculums.
   d. Market Research lab - the group could see having this space in the future and want to continue to discuss what that space could be.

8. Laptop versus desktop:
   a. The College tried using the rolling laptop cases, but the laptops wouldn’t keep charge and it took time to pass out to the students.
   b. Data Analytics computer programs are moving towards online but there is still some specialized software that requires computers.

9. Jeff asked the group to identify the needs for online courses.
   a. The group likes the idea of the “one-button” rooms (noted in Meeting #3 - Student Learning).
   b. Dr. Holzhauer mentioned they could incorporate VR stations with online learning in the future.
   c. Ideally the group would like to have synchronous online courses, which would require more advanced technology for support.
   d. The group would like to continue to think about how to manage communication, online recruiting, staff interaction, etc. in support of online learning.

10. Laptop versus desktop:
    a. The College tried using the rolling laptop cases, but the laptops wouldn’t keep charge and it took time to pass out to the students.
    b. Data Analytics computer programs are moving towards online but there is still some specialized software that requires computers.
    c. The group would like a “Visualization lab” - this space could be used by other curriculums.
    d. The group noted that there could be shared/used by other curriculums.

11. IT in the College of Business (COB):
    a. Robert mentioned that IT is going towards having a centralized location on campus.
    b. Because of that we won’t focus on where IT lives within this program.

12. Advanced Technology Classrooms:
    a. The group would like a couple of “souped-up” classrooms.

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14. Advanced Technology Classrooms:
    a. The group would like a couple of “souped-up” classrooms.

15. Jeff will review weekly contact hours from a semester to evaluate how many classrooms need to be planned for.
    a. During the renovation construction, the College encouraged teachers to teach online classes because lack of classroom space. The last ‘normal’ semester was Fall 2018.

16. Jeff mentioned that if small classrooms (40-45 students) set them apart from other colleges or are beneficial to the College then to keep on that track.
APPENDICES

17. Jeff mentioned again they typically plan for 40 or 60-student size classes because of space efficiency. At current space factors (SF/student), a 40-student class could fit 48 if needed.

18. The group noted that there are a couple larger 80-90 student classes (marketing and economics).

19. Robert feels that the classrooms within the new building should not be designed to hold general education courses since these spaces are privately funded. But technically all classes are open to students outside of the COB.

20. The group likes the idea of having a fireplace mentioned in a previous meeting (Meeting #2 - Student Services).

21. The group would like to continue to include the possibility of a pub in the program. Jordan Camp noted that students would like for that space to be accessible to students.

22. Jordan also noted they would like for students to have access to a portion of the rooftop area.

23. Writing Communication Lab:
   a. It was discussed in the Focus Groups that this space could go beyond just writing, but support presentations and video media (Meeting #2 - Student Services).
   b. It was noted that events for employers or a career fair could be held within a colloquium or even in the community gathering area.

24. The group noted that orientation sessions are currently 80 students, but in the future, it could be 100-120 students.

25. Parking:
   a. If parking was below the new building, Jeff and Kelly Headden suggest only 1-2 floors. With a 20,000 SF floor plate, the space could fit ~50 parking spots per floor. Which would be enough spaces to support delivery/services and outside businesses parking.

26. The group discussed adding a bookstore.
   a. This bookstore would be separate from Rollins shop. Rollins shop is mostly apparel.
   b. Students would be interested if the bookstore contained a “Pod market” with food.

27. When discussing the College’s ties to Chattanooga, a history museum was proposed (Meeting #6 Community & Shared Resources).
   a. The group suggested the display of information to be visualization rather than items in cases.
   b. The College is currently starting to transition the Hall of Fame to digital content.
   c. Action Item: Katrina Craven and Stephanie Parrish can pass along the brand manifesto information which includes their vision for sharing the College’s history.
   d. Kenny Tyler asked Kelly to discuss the branding strategies used at the UTK Student Union, to give a sense of place for the College.
   i. Kelly gave an overview and noted that digital and/or vinyl signage allow for changes and updates in the future.
   e. Jeff mentioned that the built environment is also part of the branding.

29. Sustainability:
   a. Jeff noted that WELL and Fitwell certifications are little to no added cost.
The purpose of this meeting was to review the program space list, site analysis, and conceptual program diagram options.

1. Jeff Ziebarth started the meeting by sharing that we will review the program space list, site analysis, and conceptual program diagrams.
2. Jeff noted that he updated the project vision based on the College of Business (COB) feedback.
3. Jeff reviewed the Classrooms Needs Assessments, which he based on planning metrics and student contact hours.
   a. Based on credits and enrollment of Spring 2018 semester, there are 22,000 weekly student hours.
   b. Dr. Kathi Wheatley shared that she thinks 10 credit hours per student is too low.
4. Jeff reviewed the updated Program Space List.
   a. Instructional Spaces (1.0)
   b. Departmental Admin & Faculty Offices (3.0)
   c. Rollins College of Business Admin (2.0)
   d. Shared Facilities (7.0)
   e. Program Admin & Student Services (4.0)
   f. Center of Centers (5.0)
   g. Common Area (6.0)
   h. Shared Facilities (7.0)

   i. The purpose of this meeting was to review the program space list, site analysis, and conceptual program diagram options.

   ii. Jeff proposed that majority of faculty space stays as is.
   iii. The program includes dedicated student-faculty interaction space.
   iv. Jeff noted that the Student Success Center needs to grow and he’s proposing that it stays in Fletcher Hall.
   v. The existing student service space is 4,300 SF and needs to grow to 7,000 SF.
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   The 6th classroom could be used for a graduate classroom.
   The proposal includes the majority of study spaces on Fletcher 2nd floor, then the team/group study rooms to be located in the new building.
   Jeff noted that the “Small Business Development Center” (5.1) should be renamed to Solution Scholars.
   Jeff noted there is a Makerspace within the Center for Innovation.
   Jeff noted that the program includes placeholders of 500 SF each for Data Analytics, Free Enterprise, and Professional Sale centers.
   These allocations can adjust as the college decides the space needs for these Centers.
   iv. The total area for the Center of Centers is 8,600 SF.
   v. This is the largest program area so there needs to be thought about where it is located.

   The purpose of this meeting was to review the program space list, site analysis, and conceptual program diagram options.

   i. Jeff noted that the Student Success Center needs to grow and he’s proposing that it stays in Fletcher Hall.
   ii. Remaining in Fletcher Hall would mean taking over 5 of the classrooms on the 2nd floor of Fletcher Hall.
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   iv. Jeff noted that the ideal location for specialty labs and enterprise classrooms would be near the Center of Centers.
   v. Rollins College of Business Admin (2.0)
   vi. Jeff proposed a small amount of growth to the Office of the Dean within Fletcher Hall.
   vii. There is no Dean suite space proposed in the new building.
   viii. Departmental Admin & Faculty Offices (3.0)
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   Jeff suggests that there needs to be blending between Fletcher Hall and the new building, so that all the ‘cool stuff’ isn’t only in the new building.
   Currently showing about 7,000 SF in Fletcher Hall and 11,000 SF in the new building.
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Jeff reviewed the 2012 campus master plan.

- Fletcher Hall and the addition would nearly be the same size.
- Robert noted the Probasco Chair and Center for Free Enterprise are the same group.
- The site diagrams show how a phase 2 could be added that contains non-COB program spaces.
- Jeff noted that they want to better understand the access of the gateway.
- The group noted that most freshmen live northeast of Fletcher Hall.
- Most COB students live south of McCallie Ave.
- Jeff noted that all concepts leave Development House as is. It would be removed during Phase 2.

5. Jeff reviewed the 2012 campus master plan.

- Fletcher Hall Level 2 average class size is 958 SF. At 30 SF/seat = 32 seats
- The COB currently holds 40 students in these classes, and they are very tight.
- Growth of Decosimo Student Success Center.
- Jeff noted he is interested in feedback regarding synergy of the Student Center.
- Jeff noted the largest, most important spaces include auditorium, community gathering, center of centers, and conference center.

6. Conceptual Program Diagrams

- Kenny noted that the 83,000 SF program included all ‘big dreams.’ Jeff confirmed it includes all requested spaces that support the COB. It does not include general educational spaces, campus alumni space, etc.
- Jeff noted that the site diagrams show how a phase 2 could be added that contains non-COB program spaces.
- Site discussion - Jeff noted that they want to better understand the access of the gateway.
- The group noted that most freshmen live northeast of Fletcher Hall.
- Most COB students live south of McCallie Ave.
- Jeff noted that all concepts leave Development House as is. It would be removed during Phase 2.

1. Jeff noted that it will be important to think about what’s located across the street.
2. Jeff asked if there is anything we need to consider related to utilities, transit, etc.
3. Kenny noted that the utilities are as shown.
4. Kenny noted for transit we need to consider a drop off, on Douglas Street as it approaches Oak Street.
5. Kenny noted that the addition will be removing one parking lot and it will be important to incorporate a new parking lot in a future project to account for those parking spaces.
6. Pedestrian traffic - Kenny noted that we need to celebrate Oak Street entry as a gateway between old and new.
7. Other buildings in the area - Kenny noted that the Field to the west of Bretske Hall is a planned future building site. The goal is to frame out Chamberland field with buildings.
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v. Concept B is ‘L-shaped’, with the Gateway dividing the space. Pedestrians pass through building without having to go into the building. This option lightly touches Fletcher Hall.

vi. With Concept C, the building itself becomes the gateway. The entry to the COB complex is also the entry into the campus. The connection amount to Fletcher Hall is between Concepts A & B.

d. Kenny noted that Concept C is a hard sell. He’s concerned that it prevents fire trucks from being able to service old spaces in the center of the campus.

e. Jeff asked if the ‘Keyhole’ renovation project has an opportunity to add in fire truck access. This to be assessed once we receive information about the project’s current status / design.

f. Robert wondered if there was a way to take out Development House in phase 1 but still have the opportunity to expand in phase 2.

g. Kenny noted that taking out Development House in phase 1 would take out more parking space (roughly 12 spots) which would need to be replaced in phase 1.

h. Jeff goes through each concept.

i. Concept A

i. Kenny noted that this concept is going to get very tight on the site and blocks a large portion of Fletcher, causing it to lose its identity.

ii. Enter atrium at level 1, then cascade up to level 2.

iii. Centers and specialty labs wrap atrium.

iv. The entry is off of gateway/Oak Street.

v. The Pub is on level 2, overlooking the atrium.

vi. Repurpose center area of Fletcher Hall level 2 for Student Success Center.

vii. Alumni Resource, RCOB Retail, and the museum are also on Fletcher Hall level 2.

viii. Student & public engagement spaces are all on Fletcher Hall level 2.

ix. Repurpose existing labs in Fletcher Hall level 3, as labs are located in the new building.

x. The Auditorium hangs out over gateway along the North end of the new building.

xi. Level 4 includes learning space, the colloquium, and the conferencing center.

xii. Phase 2 would be north of Oak Street and take out the Development House. The diagram shows 50,000-60,000 SF for phase 2, but we don’t know how much space is needed for phase 2 at this time.

xiii. Stephanie asked if the new building would be modern. Jeff noted that the materiality would match Fletcher Hall, but the design would be similar to library architecturally. Jeff noted the building design would be an additional study.

xiv. Kenny asked if we can see a 3D massing study of phase 2 to see what that connection looks like and what the concept of gateway means architecturally.

j. Concept B

i. Extends over Oak Street / the gateway.

ii. The Auditorium would be on north side of the gateway. It almost feels like / functions like a standalone space.

iii. Phase 2 expansion is not as big, but it could extend towards the library.

iv. The gateway becomes like a courtyard for the COB complex.

v. Fletcher Hall changes are the same in all three concepts.

vi. The new building would connect to the portion north of Oak Street at the 2nd level.

vii. Jeff noted that all the centers wouldn’t fit on a single floor in this option and are on located on two floors.

viii. The centers and specialty labs overlook the atrium. (on levels 3 and 4, the area with the “X” is above the atrium)

ix. The pub is overlooking the atrium on 4th floor, adjacent to conferencing. The Colloquium and Executive Board Room are also on this floor.

x. The building becomes a gateway without having to enter the building.

xi. Kenny noted that regardless of the architecture, he feels this concept creates a strong statement.

xii. Kenny feels the Development House sits in the shadows of the building.

xiii. Robert thinks that the Development House does need to be removed at some point.

xiv. Robert asked if there’s somewhere else that Development House can go on campus (15-20 people). Kenny proposed that the footprint of the Development House becomes parking in phase 1, then can expand on that space in Phase 2.

xv. Robert suggested giving Development House the existing Center for Innovation and Entrepreneurship (CIE) space, then bring that Center back into the COB complex.

xvi. Jeff asked if Development House could contribute money to be part of this program.

xvii. The group noted that Development House is ~5,000 SF. Jeff noted that if Development House was included, it would be getting a new space for 2/3 of the cost in comparison to a building a new space.

xviii. The group currently doesn’t know if the church parking lot on the other side of Douglas Street will stay in place or if they will sell in the future.

xix. Kenny suggested that parking underground could be included with phase 1, then that becomes a foundation for the addition of Phase 2.

xx. Kenny noted that it would be likely that they could get institutional funding for parking in this project (private funding most likely won’t cover parking). Current stance is the University doesn’t want to create standalone parking garages and would rather them be integrated in the building projects.

xxi. Fred Regan noted that if Development House is included in the program, alumni would also have to be included.

xxii. Robert likes that Alumni/Development are close. All alumni would have to come through COB to go to Alumni.

k. Concept C

i. This option puts the building on the gateway, which Kenny noted fire truck access might be an issue.

ii. Kenny noted that they wouldn’t want to obstruct the view along the gateway. It’s like the spine and is the only straight view through campus.
iii. The atrium is the entry piece along the gateway. All of the centers are in the same area/on the same floor.

iv. The Auditorium stacks on top of centers.

v. The connections between the new building and Fletcher Hall are minimized on the upper floors.

vi. The center space along the gateway could be all glass to emphasize the gateway and continue visibility.

vii. This option shows how to access and the footprint of parking beneath the addition (currently showing 50-60 stalls). Jeff noted this could be incorporated into Concept B.

viii. This option allows visibility of the Fletcher Hall architecture.

ix. Phase 2 is also smaller in this option. Jeff noted that in all concepts that the addition crosses Oak Street, phase 2 becomes smaller.

x. There were concerns expressed about having heavy foot traffic through the building. Robert asked how all campus traffic (non-COB) through the building would affect the space and how the building is used.

xi. Jeff noted that some Deans support that interaction. It would start to become more of everyone’s building not just COB’s building. It’s hard to predict how exactly the space would be used.

7. Overall feedback:

a. Robert noted that having an auditorium that feels standalone (Concept B) would encourage the ability for that space to be used by other groups/collages on campus.

b. Jeff asked the group for their thoughts on the repurposing of Fletcher.

i. Robert asked what’s the vision for the Alumni Resource space. Jeff noted that it could be a library, or comfortable space for alumni to come hang out, or meet with students.

ii. The group discussed the probability of Alumni coming to the building.

iii. The group agrees they don’t think the Alumni Resource space is needed.

iv. The group also doesn’t think the museum is needed. They want to bring in history in a more integrated way.

v. Gary Rollins has noted there needs to be an archive space, to preserve artifacts.

vi. Katrina Craven asked if that would that be better suited in the library. Her preference is to have integrated history throughout the building and have history accessed digitally.

vii. Michael Jones asked if the Student Success Center has a teaching space.

viii. Jeff noted the proposed plan keeps the graduate interview rooms and student recruitment lounge together.

ix. The proposed plan has the undergrad and grad success center all together and increases in size on Fletcher Hall level 2. The growth takes over the existing team room space and lounge spaces.

x. The biggest challenge for space in Fletcher Hall is office space for advisors. Stephanie noted that they currently have future advisor space built into the Fletcher Renovation plans.

xi. Robert noted that the University of Houston - Victoria at Katy campus, the COB, engineering, and nursing colleges have no dedicated offices, but all cubicles.

xii. Jeff asked for input on the graduate classroom.

1. Kathi feels that it’s not a good utilization of space. It would only be used at night.

2. The group noted that this space could be used for orientations, information sessions, international MBA.

3. Jeff noted the classrooms is sized to have around 40 students.

4. Jeff noted that the thought behind this classroom is to give a little more identity to the graduate program.

xiii. Jeff noted that there is one 30-seat student seminar room planned within Student Success Center.

xiv. The group discussed the possible growth of Advising.

xv. Robert asked what space will be used by visiting businesses. Jeff noted that the Colloquium or Conference center would be used for visiting businesses/employers working with students, business engagement events, major recruiting, etc.

xvi. Kathi wondered how to better use the 4 available classrooms on Fletcher level 2 for support of student orientation.

xvii. Jeff asked the group if they would like to use two of the classrooms for a multi-purpose room. Group agrees that would be good.

c. When asked, Jeff noted in Concept B, the Cafe is on the bridge on the 3rd floor.

The Pub on the 4th floor.

i. The group likes the Pub on the 4th floor.

d. Concept B removes 1 offices within Fletcher Hall at the connection of the bridge.

i. They can’t lose any office space so these need to be planned for in a new space.

ii. Jeff noted that the production space on Fletcher Hall level 3 is probably larger than needed and can put offices here.

e. The overall consensus is that Concept B is the favored option.

f. Jeff noted that Concept B has the centers split on two floors. Jeff noted that you could move the labs to another floor and then have the centers all on one floor. Robert noted that might be ideal to avoid figuring out which center goes where, adjacencies, and multiple admin/receptions.

g. Stephanie asked if Jeff has precedents for the Center of Centers. Jeff noted he will send pictures of Carnegie Mellon’s Center of Centers.

h. Jeff noted that the size of the centers will vary from what is programmed and might be able to fit a small specialty lab in this area.

i. Jeff asked for feedback of the Auditorium as a standalone space.

i. Robert likes the Auditorium being available to broader campus usage because COB won’t use it 24/7.

ii. Jeff noted capacity is 250 people.

j. For the remaining two available classrooms on Fletcher level 2, Robert noted that support space for Student Success Center would be great. This area has grown significantly recently.
APPENDICES

UTC Fletcher Hall Programming 20 February 2020
Meeting Notes

The group confirmed the next steps:

a. They want to see parking in Concept B.

i. Robert noted the University of Houston created an arena for gaming. The University has a specialty in gaming. They have gaming club teams. It’s been a strong recruiting tool.

b. The group discussed visiting Tulane University, University of Massachusetts, and Georgetown University.

ii. Robert wants to look at how the spaces are laid out, the adjacencies between the existing and new buildings and know their lessons learned.

k. Jeff noted that after the next Workshop, we’ll want to have a selected concept to further develop.

m. The current Development House building would need to be demolished.

l. Kenny noted if the addition is built to those standards, the campus won’t pay for recertification. Also, the campus needs intuitive systems. They can’t educate staff to operate specialty items.

n. Jeff noted he is keeping his superiors and the appropriate people informed throughout the gateway.

o. Jeff asked for goal number of parking spots. Kenny noted, at a minimum they need to replace the spots that are being taken out from the two parking lots (29 spots total), but also would like to maximize the cost.

p. Jeff asked for goal number of parking spots. Kenny noted, at a minimum they need to replace the spots that are being taken out from the two parking lots (29 spots total), but also would like to maximize the cost.

q. Kenny noted if the addition is built to those standards, the campus won’t pay for recertification. Also, the campus needs intuitive systems. They can’t educate staff to operate specialty items.

R. Jeff asked what the premium is.

d. Well and FitWell certifications don’t have much of a premium.

e. Regardless of certifications, the building will be highly efficient, include daylighting, and other sustainable strategies inherent with thoughtful architecture.

f. Kenny noted if the addition is built to those standards, the campus won’t pay for recertification. Also, the campus needs intuitive systems. They can’t educate staff to operate specialty items.

9. Fred asked Robert if he’s going to discuss sustainability with Mr. Rollins in their upcoming meeting.

a. Robert asked what the premium is.

b. Jeff noted that it depends on his level of interest.

c. Jeff noted it could add 10% if seeking LEED platinum or above.

d. WELL and FitWell certifications don’t have much of a premium.

e. Regardless of certifications, the building will be highly efficient, include daylighting, and other sustainable strategies inherent with thoughtful architecture.

f. Kenny noted if the addition is built to those standards, the campus won’t pay for recertification. Also, the campus needs intuitive systems. They can’t educate staff to operate specialty items.

10. Kenny noted that the final document formatted on 11x17 sheets is acceptable.

11. Kenny will send information about landscape renovation plans to the ‘keyhole’ lot.

12. Kenny to send BMA the mechanical and electrical narratives from the Fletcher Hall renovation.

13. Post Meeting Note: Per email from Kenny Tyler on February 28th, Concept B is the favored option and the group would like to move forward developing this option with the following considerations:

a. The gateway concept - this would be a visual statement building for campus at one of our most prestigious views on campus.

i. This gateway would need to be large enough for a firetruck to pass through it.

b. The current Development House building would need to be demolished.

i. The group working in the Development House could be relocated to another location on campus; possibly in 540 McCallie.

c. An enlarged footprint could sit in an east/west orientation along the Development House building site thus creating an “L” shape as the addition spans the Oak Street pedestrian way.

d. Considerations will need to be made as to how this ties into the Keyhole lot pedestrian way currently in design.

e. It was noted that parking would need to be considered as a part of this project with some sort of a below grade garage.

f. As a further parking supplement related to this project, we will explore parking structure options across Douglas Street along Oak Street.

Respectfully Submitted,
BarberMcMurry Architects LLC

Kristin Bowman
Interior Designer, NCIDQ

cc: Kenny Tyler, Benjamin Luttrell, Robert Dooley, Stephanie Parrish, Michael Jones, Jeff Ziebarth, Kelly Headden, Megan Chafin, Kristin Bowman, File
MEETING NOTES: APRIL 2, 2020

Attending:

Benjamin Luttrell University of Tennessee Facilities Planning
Kenny Tyler University of Tennessee - Chattanooga (UTC)
Robert Dooley UTC
Stephanie Parrish UTC
Michael Jones UTC
Katrina Craven UTC
Jeff Ziebarth Perkins + Will
Kelly Headden BarberMcMurry Architects (BMA)
Kristin Bowman BMA

The purpose of this meeting was to discuss the project process, refined program space list, and updated design concepts. This meeting was conducted by a video conference call.

1. Jeff Ziebarth started the meeting by sharing that we will review the project vision statement, program space list, concept studies, preferred concept & imagery.
2. Jeff noted goals for today’s meeting include: confirming the program space sizes correct, the building footprint on the campus is acceptable and, the design concepts are acceptable.
3. Jeff reviewed the concept/goal of intersecting working, learning and engagement spaces.
4. Program Update
   a. Jeff noted the program hasn’t changed and gave a general overview.
      i. The design plans for 1,174 seats, which can accommodate 3,500 student enrollment.
      ii. Large specialty program spaces include: Exec Ed Conference Center, 6 Business Centers, Community Gathering area, Colloquium and Executive Board Room, Student Incubator, Food Service, the Pub, Retail area.
5. Jeff reviewed the Program Space list and noted this is generally the same as the previous but will note any changes and renovated spaces in Fletcher.
   a. Jeff noted the colors coordinate with concept plans.
   b. The concept plans locate all Faculty offices in Fletcher Hall.
   c. Also, all student services are in Fletcher Hall.
   d. Jeff noted he can send the Program Space list with the group for review.
   e. Jeff noted a change in the program. Included: The Probasco Center within the Center of Centers is now called the Probasco Center of Free Enterprise. We also now have a Future Center of 500 SF.
6. Campus Master Plan Compliance
   a. Jeff noted that we want to make sure the design is aligned with the Master Plan, which Jeff feels is being accomplished.
   b. Jeff noted that based on the last meeting, the design moving forward includes removing the Development House.
   c. Jeff reviewed the campus pedestrian traffic in relation to the site.
   d. Jeff pointed out the entries to the new addition as well as Fletcher Hall.
   e. Jeff noted that there’s a major influence of the campus gateway in the design concept.
   f. Jeff noted that last week we had a conference call with the Landscape architect to review the design of the keyhole plaza renovation.
   g. The proposed site design for the addition is complimentary to those renovation plans.
7. Concept Program Diagrams
   a. Jeff noted that we looked at a couple iterations before moving forward with one concept.
   b. Concept drivers include: balance between Fletcher Hall and the new building, maintain as much Fletcher Hall renovation as possible, renovate Probasco Suite and Bloomberg Lab to support faculty and staff needs, and provide space for growth of the Decomiso Student Success Center within Fletcher Hall.
   c. Key space components include: Auditorium, Community Gathering, Center of Centers, and Conference Center.
8. Concept Evolution
   a. Concepts A, B, and C were reviewed at Workshop #3. The latest proposed concept is Concept D, and it combines elements from Concepts B and C.
9. Conceptual Plan Studies
   a. Jeff reviewed briefly the studies that led to Concept D.
   b. Study 1
      i. Level 1 includes mechanical space and labs.
      ii. Level 2 includes the Centers of Centers, a Community Gathering atrium, and Enterprise Studios.
   c. Jeff noted the Auditorium will span between Level 1 and Level 2.
   d. Level 3. The Conference Center is at the north end of Level 3 with a terrace outside. The Pub is also on Level 3.
   e. The Colloquium and Exec. Board Room is on Level 4.

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APPENDICES

Meeting Notes

vi. Active Learning Classrooms are on both Level 3 and 4.
c. Study 2
i. Jeff noted it is similar to study 1, but program stacking starts to change.
ii. The Community Gathering atrium space on Level 2 wasn’t quite large enough in study 1. Study 2 reflects the increased size, by relocating some of the Center of Center space on Level 1.
iii. The Student Incubator space is on Level 1.
iv. There is a terrace outside of the Auditorium on Level 2.
v. The Pub is on Level 3 overlooking the atrium.
vii. On Level 3 there is community terrace that can be occupied by my faculty and students.
viii. All terraces look towards Chamberland Field.
ix. The Colloquium and Exec. Board Room are flanking gateway on Level 4.
ixi. The Conference Center is moved to Level 4, as this space relates to Exec. Board Room and Colloquium.

10. Preferred Concept
a. Jeff noted that we felt study 2 was stronger, which influenced Concept D.
b. Robert asked about conversation regarding the Development House and parking.
c. Jeff noted that this concept does include parking.
d. Kenny Tyler noted that campus administration liked the idea of eliminating the Development House and were open to locating the department somewhere else on campus or in the new complex.
e. Kenny noted that parking is needed. He mentioned that they have a design review of adding a parking deck where Frist Hall is now. However, he feels the new building design concept should include parking.
f. Robert asked about the site grade and if Level 1 is at street grade.
g. Jeff noted that the gateway and the majority of the new building Level 1 are on street grade. But the southeast side of the new building is below grade.
h. Jeff noted the grade changes and entries to the new building. The concept extends the north entry stair of Fletcher Hall.
i. The building starts to open up the East, connecting with the gateway and Chamberland Field.

j. Level 1
i. Fletcher Hall stays the same but adds another connection to the new building.
ii. The exterior facade along the north side of Fletcher will be seen within the community gathering space of the new building.
iii. New building includes labs, the Center of Centers, the Student Incubator, and mechanical support.
iv. There is an entry point to the new building at Level 1, that is along the gateway.
v. The mechanical room and team rooms at the south east corner of the new building is below grade, but this area is open to above so natural light can reach that area.
vi. The labs along the west are at street grade.

k. Level 2
i. Kristin Bowman reviewed the proposed renovations to Fletcher Hall at this floor, which included:
   1. The Decosimo Student Success Center is renovated to grow in size, taking over existing student lounge space and includes the Graduate Administrative spaces.
   2. The east classrooms are renovated to be student study space.
   3. The graduate offices are renovated to be interview Rooms and Corporate Recruiter room.
   4. The west classrooms are renovated to be Food Services, RCOB Retail, and a Multi-Purpose seminar room for the success center.
ii. Jeff confirmed the area shown for the Decosimo Student Success Center does include the graduate offices.
iii. Robert asked how much the Student Success Center increases by, and how many offices are included in the program.

   1. Post Meeting Note: The existing Decosimo Student Success Center is 4,300 SF (net), the program includes 6,570 SF (net).
   2. Jeff confirmed via email on 04.02.2020 that the Student Success Center (including both Grad and Undergrad, advisors, etc.) has 25 staff spaces.

iv. Robert asked if it would make sense to switch the Food Service area with the student study space, that way Food Service is closer to the elevators.
v. Jeff responded that it could go either way. Jeff proposed it might be better to locate Food Service near the service yard/loading dock.
vi. Jeff noted there have been discussions of including an elevator near the loading dock. If we don’t add that elevator, it might make sense to make the suggested switch.

vii. Jeff confirmed that area shown for Food Service includes service and seating area.

viii. Jeff confirmed that the new building does connect to Fletcher Hall’s true Level 1.

x. Level 3
i. Kristin reviewed the proposed renovations to Fletcher Hall at this floor, which included:
APPENDICES

UTC Fletcher Hall Programming 02 April 2020 Meeting Notes

1. The Probasco Suite renovated to now include a Production Studio, a Writing/Tutor/Communication Lab, and Adjunct Office Space.
2. There are 3 faculty offices at the connection between Fletcher Hall and the new building that have been relocated.
3. The Bloomberg Lab renovated to include 3 additional Dean’s staff offices and a Graduate Assistant Office.
   a. Post Meeting Note: Jeff confirmed via email on 04.02.2020 that the program includes 12 staff spaces for the COB Admin (Dean’s Area and support).
4. The collision space near the south stair, renovated to be a Faculty conference room, since there currently is not one on this floor.
ii. Jeff noted that the new building includes Enterprise Classrooms, Open Study/Team Rooms, and the Pub overlooking campus.
iii. The skybridge over the gateway includes collision space.
iv. The north end of the new building includes a Large Classroom, Open Study/Team Rooms, and Active Learning Classrooms.

m. Level 3:
   i. Jeff noted that there’s no major renovations to Fletcher Hall at this floor.
   ii. The new building includes Team Rooms that overlook campus, the Colloquium, Executive Board Room, Conferencing Center, and a terrace overlooking Chamberland Field.
   iii. Robert asked if the Pub could be relocated away from student areas, possibly on the 4th floor with more external business spaces.
   iv. Jeff noted that we can look at alternate locations for the Pub.
   v. Michael Jones asked if the Pub moves, could that space could be used as an additional classroom. Jeff noted if it becomes a classroom, it would be switching with another programmed space, not an additional classroom.
   vi. Stephanie asked what the total number of classrooms is.
   vii. Jeff noted that there are 1,174 seats and 21 classrooms. Robert asked current number of seats.
      1. Post Meeting Note: Jeff confirmed via email on 04.02.2020 that there are currently 538-586 seats (depending on the number of seats in the small classroom on Level 2).
     viii. Kenny asked why they gravitated towards the Pub’s current proposed location.
        1. Jeff noted because it looks over the atrium, and it is elevated so there is distance between it and student space. Also, so it could have a terrace space.
        2. Jeff discussed moving the Pub to the north end of the building on Level 3.
        3. Robert asked if it could be moved to the 4th floor. He noted this floor will be used for executive meetings and mostly admin use.
        4. Robert suggested swapping the Pub with the Exec. Board room.
        5. Kenny mentioned that he understands the current placement on Level 3 but understands it away from student learning space.

6. Kenny would like the Pub to retain a terrace space and overlook Chamberland Field.
   n. Jeff reviewed the Parking Level concept, which includes 50-60 stalls.
   o. Jeff reviewed the 3D images of the Concept D.
   p. Jeff points out the connection of the plaza to Fletcher Hall and the new building.
   q. Jeff notes that skybridge over gateway has around 27’ of clear space for vehicles to travel beneath it.
   r. Jeff pointed out the terrace locations along the east side.
   s. At the connection between the new building and Fletcher Hall, we maintain visual access of the facade of Fletcher with glass and skylights.
   t. Jeff notes we want a roof element that connects the building across the gateway but lets in natural light.
   u. Kenny asked if we’ve explored sloped roofs. He noted a comment from campus admin, that they like tying to the older structures on campus. Kenny mentioned to them that the new building is adjacent to the library which is a modern building. Jeff noted that the new building starts to match the materiality of Fletcher Hall without being literal. We can look at exploring a sloped roof if that is a request.
   v. Post Meeting Note: In a follow up conversation between Jeff and Kenny, Kenny indicated he reviewed the current exterior design with the Vice Chancellor and the design was “very well received.”
   v. Robert noted that he feels this design relates well to the design of Fletcher Hall.
   w. Kenny noted that he feels the design connects well with Fletcher Hall and the library. Kenny also notes that admin hasn’t seen these images so they might feel differently. He mentioned that we might want to include the metal panels in some areas where white is shown, to relate to the library building materials.
   x. Jeff noted that there is a lot of flat roof on Fletcher Hall.
   y. Robert noted that a raised or sloped roof might block views of Fletcher Hall.
   z. Looking at the west side of the building, Jeff points out the open-air terraces flanking gateway and storefront was added at the corners to open up the entry to gateway.
   aa. The window size and placement relate to Fletcher Hall.
   bb. Looking at the building interior, Jeff noted that the north facade of Fletcher is fully visible from atrium space.

11. Next steps:
   a. Robert asked about getting broader input from their staff.
   b. Jeff asked if it would be more about viewing the design than an opportunity for changes.
   c. Robert agreed it would be more to share where we are in the process.
   d. Robert noted the Chancellor hasn’t asked about where we’re at in the process, but he could share these images and info with them.
   e. Kenny said he thinks the Chancellor should see the current progress before moving forward much more. Kenny can set up that meeting.
   f. Robert asked about cost.
      i. Kelly noted that if this building were a regularly shaped higher ed building on a typical site this would likely be a $450-5F building. However, due to the site mandated shape and size to keep the pedestrian connector open.

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and the bridge, this building is likely a $550/SF building not including the parking.

ii. Kenny noted that including soft costs it could be around $60 million project.

iii. Kenny asked that Jeff & Kelly to review opinion of probable costs and provide him a written summary.

iv. Kelly asks if they want us to include FF&E and misc. costs.

v. Kenny noted that the State allows a $20/SF to estimate. Sometimes it works, sometimes it doesn’t. He would like our input. Kelly noted that several other state higher ed projects are currently running higher than Kenny noted for FFE. He suggests using $24-24.5/SF for FFE based on current experience.

vi. Kenny asked if we have a factor for AV costs. Kelly and Jeff both have methods for these opinions of probable cost and will discuss and get back with Kenny.

vii. Kenny noted they don’t want to have to pick and choose at the end and would like a more accurate estimate of those FF&E/AV items.

g. Jeff noted that we will wait until UTC meets with upper management before proceeding. Then will send updated options via email to work towards a finalize concept.

h. Kenny noted that ‘gateway’ for their campus typically means the transition from vehicular to pedestrian way.

i. Robert noted that Mr. Rollins wanted to know all the project details when they met; how we got to our program, the square footage, etc. Robert told Mr. Rollins that this project would need to be funded with private money and Rollins didn’t ask about costs but told Robert keep moving forward.

j. Jeff noted that with similar projects, the client likes to identify naming opportunities and raises $30 million. Robert doesn’t think their donor base is at the level. Jeff noted that he can send Robert the information from previous projects.

k. Robert and Kenny noted that 60 parking spots is more than sufficient—many more than they expected since it is replacing approximately 24.

l. Jeff and Kelly noted that the parking level is likely around a $1.8-$2 million add.

m. Kelly noted when we send the project opinion of probable cost that it will be broken out noting what each is for.

n. Robert noted that ideally all Centers would be sponsored. He thinks they could raise closer to $10 million.

o. Jeff asked for the group’s thoughts on putting development offices in place of the center space on the first floor, to get additional funds.

p. Robert noted that he thinks he should review these costs with Mr. Rollins for feedback before exploring those options.

q. Kenny noted if they want to keep the complex entirely the College of Business program, now is the time to make that decision. Robert said that would be his preference.

r. Kenny will follow up on scheduling a meeting for the Chancellor’s review.
APPENDICES

PRESENTATION: WORKSHOP 1, DECEMBER 12, 2019

Gary W. Rollins College of Business Overview

- Additional Information:
  - Undergraduate class size capped at 40 – 45 students as a differentiator, experiential education UTC ThinkAchieve
  - RCOB has steady enrollment growth over the past 5 years
  - Enrollment growth has not increased full-time faculty numbers
  - RCOB has strong brand identity within the region
  - RCOB relies heavily on adjunct faculty and 1-year instructors
  - Existing Fletcher Hall is at capacity
  - Classrooms on Level Two of Fletcher Hall have been remodeled, Level One and Three Classrooms have not
  - 15 in 4 Tuition Model (new) and impact unknown
  - Joint Master of Business Analytics (Management, Computer Science and Engineering)

Project Roadmap

Aligning your facility with your strategic plan

Project Approach and Process

- Review and Discuss Project Process
- Discuss Expectations and Campus Master Plan Influences
- Discuss Workplan, Schedule and Scope

Wednesday PM - UTC Rollins College of Business Academic Goals

- Review the RCOB Strategic Program Plan, Investment Fund Planning Goals & Objectives

Wednesday PM – Business Education and Facilities

- An overview and discussion of trends in business education and facilities

Wednesday PM – Visioning Discussion

- Identify and Document Key Project Drivers
  - Learning
  - Community
  - Programs
  - Student Experience
  - Outreach and Engagement
  - Research
  - Academic Program Differentiators
  - Sustainability and Wellness
  - Culture
  - Other Academic or University Partners

Wednesday PM: Next Steps

Project Workplan

Project Site

Understanding Your Goals and Strategic Plan

Gary Rollins College of Business Overview

- Enrollment 2000 Undergraduate and 350 Graduates = 2450 Total (Growth to 3000 by 2030)
- 4 Departments: providing multiple majors
  - Accounting
  - Economics and Finance
  - Marketing & Entrepreneurship
  - Management

- Degrees
  - Bachelor of Science Business Administration (BSBA)
  - Masters of Business Administration (MBA, hybrid on-line and in person)
  - Masters of Accountancy (MAcc)

- Faculty: 61 Faculty (including 4 Department Heads and Dean and Associate Dean) + Growth of 25% by 2030

- Specialty Programs and Initiatives:
  - Executive Education
  - Specialized Graduate and International Programs
  - Decimso Success Center
  - Center for Innovation and Entrepreneurship

Understanding Your Goals and Strategic Plan

- Enrollment 2000 Undergraduate and 350 Graduates = 2450 Total (Growth to 3000 by 2030)
- 4 Departments: providing multiple majors

- Degrees
  - Bachelor of Science Business Administration (BSBA)
  - Masters of Business Administration (MBA, hybrid on-line and in person)
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- Specialty Programs and Initiatives:
  - Executive Education
  - Specialized Graduate and International Programs
  - Decimso Success Center
  - Center for Innovation and Entrepreneurship
Aligning Strategic Priorities
Your facilities and strategic plan

**Flex Hall Residences**

**Recommended Investments to Alig with Enhancement Fund Strategic Priorities**

- To support academic chairs
- To support student life
- To support professional development
- To support engaged alumni
- To support enhanced student experiences

**Scholarships & Scholarships**

- For scholarships to support academic chairs, student life, professional development, engaged alumni, and enhanced student experiences.

**Enhancement Fund**

- Recommended Investments to Alig with Enhancement Fund Strategic Priorities:
  - To support academic chairs
  - To support student life
  - To support professional development
  - To support engaged alumni
  - To support enhanced student experiences

**Academic Chairs**

- To support academic chairs
- To support student life
- To support professional development
- To support engaged alumni
- To support enhanced student experiences

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
The Future of Business Education

Begins with Transformation

Business School Transformation

Past - Silos
Current - Blurring Silos
Future - Intersections

Innovation

Pedagogy
Workplace

Business School Transformation

Networking Commons
Grad Commons
Graduate School of Business
Taylor Family Commons

“GARAGE SPACES”

“DESIGN THINKING”

“INCUBATORS”

Flexible Classrooms

Active Learning Classrooms
Enterprise Classrooms

Financial Markets

Visualization

Design Thinking Classroom

Maker Space Classrooms

Community – Social Learning

WORKPLACE CHANGE

Workplace: We vs. Me

Student Experience
Success
Amenities + Resources
Partnerships + Engagement

Community
Industry Connections
Business Resources

Enhanced Student Experience
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Health + Wellness

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Curating your vision

Organize dialog by activities:

- Learning, Innovation, and Instructional Activities
- Administrative (Program and Departmental) and Research
- Student Experience and Support Activities
- Outreach, Centers, and Conferencing Activities
- Community, Shared, and Support Activities

Existing Conditions
Project Approach and Process

Understanding Your Goals and Strategic Plan

Project Vision Statement

Purpose

Create a Rollins College of Business complex that provides an integrated student experience, is a center for lifelong professional development, and a focus on student learning, faculty and community engagement.

Greater Purpose

Expands the role of business education in supporting intellectual growth and integrity through a collaborative environment of inclusion and diversity.

UTC Rollins College of Business Complex

Design Drivers: Strategic Platform

1. STUDENT: Academic, faculty, and community value and interest in interaction and integration of Rollins College.
2. STRATEGIC: We are committed to excellence and innovation.
3. PROVIDE: Resources to support our students, faculty, and community engagement.
4. ELEVATE: Integrates student success to drive educational excellence and support each student to learn, thrive, and connect.
5. INSPIRE: Dynamic, productive environment and expanded learning and discovery.
The Future of Business Education

Begins with Transformation

Business School Transformation

PAST - Silos
CURRENT – Blurring Silos
FUTURE - Intersections

Business School Transformation

Networking Commons
Graduate Commons
Twin Study Areas

“GARAGE SPACES”
“DESIGN THINKING”

“INCUBATORS”

Existing Conditions

Gary Rollins College of Business Overview

Enrollment: 2100 Undergraduate and 320 Graduates = 2420 Total (Growth to 3000 by 2030)
4 Departments: providing multiple majors
• Accounting
• Economics and Finance
• Marketing & Entrepreneurship
• Management

Degrees:
• Bachelor of Science Business Administration (BSBA)
• Masters of Business Administration (MBA: hybrid on-line and in person)
• Masters of Accountancy (MAcc)

Faculty: 61 Faculty (including 4 Department Heads and Dean and Associate Dean) = Growth of 25% by 2030

Specialty Programs and Initiatives:
• Executive Education
• Specialized Graduate and International Programs
• Student Success Center
• Center for Innovation and Entrepreneurship

Gary Rollins College of Business Overview

Additional Information:
Undergraduate class size capped at 40 – 45 students as a differentiator, experiential education UTC ThinkAchieve
RCOB has steady enrollment growth over the past 5 years
Enrollment growth has not increased full-time faculty numbers
RCOB has strong brand identity within the region
RCOB relies heavily on adjunct faculty and 1-year instructors
Existing Fletcher Hall is at capacity
Classrooms on Level Two of Fletcher Hall have been remodeled, Level One and Three Classrooms have not
15 in 4 Tuition Model (new) and impact unknown
Joint Master of Business Analytics (Management, Computer Science and Engineering)

Fletcher Hall _ Existing + Proposed Space Assessment

Functional and Adjacency of Spaces within Fletcher Hall?
Classroom and Computer lab sizes, Capacities and Pedagogical Goals
Classrooms have similar capacity than goal of the College (35 seats +/-)
What is the use for the Graduate Office Areas within Fletcher Hall?
Goal to include Center for Innovation and Entrepreneurship within the Rollins College of Business
Collaboration Areas to be examined in use and SF assignments
Existing Fletcher Hall is at capacity
Classrooms on Level Two of Fletcher Hall have been remodeled, Level One and Three Classrooms under construction
Existing Fletcher Hall = 86,578 GSF
Classroom Needs Assessment:
- Assume 36 Hours per Week Usage (WRH) + Student Station Occupancy (SSO) of 80% or .8, Enrollment Growth to 3000
- 990 Seats = 990 x 36 x .8 = 28,512 Weekly Student Contact Hours
- 1414 Seats = 1414 x 36 x .8 = 40,732 Weekly Student Contact Hours (new proposed and current)
- Current Proposed = 17 Classrooms/Labs = (3) Labs, (1) Aud., (1) 100 Seat, (10) 45 Seat, (2) Enterprise
- Verify use of renovated classrooms and labs? Additive?
- Renovated Classroom Capacity and Sizes
- Provide Executive Conference Center
- Provide Business Solutions Center: 6 Different Centers including Center for Innovation and Entrepreneurship
- Provide a community gathering area for 300 people
- Provide Multi-purpose Colloquium Space for 100 people
- Provide Student Incubator Space
- Executive Boardrooms
- Food Service Venue
- Growth in Faculty Offices
- Expanded Student Success Center
Enhanced Student Experience

Student Resources + Amenities

Student Success

Focus Group Meeting

Learning
**Project Approach and Process**

**Presented by:** Gary W. Rollins College of Business

**The University of Tennessee at Chattanooga**

**Agenda:**
- **Thursday February 20**
  - Leadership Committee + Steering Committee
  - 1:00 – 3:00 PM Review Program Space List
  - 3:00 – 5:00 PM Leadership Committee
    - Review Campus Master Plan Compliance
    - Review Site Analysis
    - Review Conceptual Program Stacking/Alignment

- **Friday February 21**
  - Leadership Committee
    - 8:00 – 10:00 AM Finalize Conceptual Direction for Program Alignment
    - Fletcher Hall Construction Tour

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**Project Workplan**

**Project Vision Statement**

**Purpose:** Design a Gary W. Rollins College of Business complex that provides an exceptional student experience, as well as support students, faculty, and staff through lifelong learning, research, and engagement.

**Greater Purpose:** Enhance the value of business education by supporting intellectual growth and professional development.

**Mission-Driven Process**

- Aligning facilities with strategic vision

**STRATEGIC PLAN**
- Physical Facilities
- Technology
- Program Endowments
- Fundraising Mechanisms

**MISCELLANEOUS**
- Physical Facilities
- Technology
- Program Endowments
- Fundraising Mechanisms

**Understanding Your Goals and Strategic Plan**

**Project Visioning**

- Design drivers:
  1. **UNIFY** students, faculty, and community within an interactive and engaging college of business complex.
  2. **CREATE** an environment that supports EXPERIENTIAL and INNOVATIVE LEARNING, through exploration, research and hands-on application.
  3. **PROVIDE** resources that support student success, INSPIRING LEADERSHIP for relevant and lifelong learning.
  4. **UTILIZE** adaptable spaces to promote ENTREPRENEURIAL THINKING and TRANSFORMATIONAL LEARNING.
  5. **ENABLE** an environment of LIFELONG LEARNING through PARTNERSHIPS, community ENGAGEMENT and participation.
  6. **INSPIRE** dynamic, interactive conversations that promote experiential learning and DISCOVERY.
Gary W. Rollins COB _ Proposed New Space Summary

Classroom Needs Assessment:
- Assume 36 Hours per week usage (WRH) + Student Station Occupancy (SSO) of 80% or .8, Enrollment Growth to 350
- Enrollment (2400 UG+Grad) and 22,000 WSCH = 9.2 Credit Hour per Student
- Capacity = 22,000 WSCH / 9.2 Credit Hour per Student = 3500 Enrollment Growth
- Current Proposed = 22 Classrooms/Labs + (6) Specialty Labs, (1) Aud., (1) 100 Seat, (2) 75 Seat, (10) 45 Seat, (2) Enterprise
  Provide Alumni Resource Room + Chattanooga Industry Museum
  Provide Exec Ed Conference Center
  Provide Business Solutions Center & Different Centers including Center for Innovation and Entrepreneurship
  Provide a Community Gathering area for 300 people
  Provide Multi-purpose Colloquium Space for 100 people and Executive Board Room
  Student Incubator Space
  Food Service Venue including The Pub + RCOB Retail Area
  Growth in Faculty Offices, Study Areas, Collaboration Areas, Meeting Rooms
  Expanded Student Success Center
Campus Master Plan Compliance

Master Plan 2012 - Building Use

Master Plan 2012 - Proposed Building Use

Master Plan 2012 - Transportation Systems

Master Plan 2012 - Proposed Open Spaces

Master Plan 2012 - Transportation Systems

Master Plan 2012 - Distribution Infrastructure
Conceptual Program Diagrams

Gary W. Rollins COB _ Concept Drivers
- Provide balance (square footage, program uses & adjacencies) between Fletcher Hall and New Building
- Maintain as much of the Fletcher Hall Renovation Program as possible
- Classrooms on Level 2 average 958 SF and @ 30 SF/Seat = 32 seats @ 28 SF/Seat = 34 SF/Seat
- Renovate Probasco Suite and Bloomberg Lab on Level 3 to support faculty and staff needs
- Provide space for growth of the Decosimo Student Success Center within Fletcher Hall
- Explore space/program synergies with expanded Decosimo Student Success Center
- Explore concept configurations for different site utilization, Campus Gateway and Expansion
- Key Components: Auditorium, Community Gathering, Center of Centers, Conference Center
Level One – 21,915 GSF
Under Construction

- Computer Lab
  - 48 Seats
- Computer Lab
  - 40 Seats
- Classroom
  - 74 Seats

Level Two – 21,637 GSF

- Renovated Classroom Spaces:
  - Alumni Resource
  - RCOC Retail
  - Chattanooga Industry Museum (2,000 SF)
- Reconfigure Grad Office Area:
  - Interview Rooms
  - Recruiters Area 1140 SF
- Renovated Spaces:
  - Decosimo Student Success Center
  - Graduate Admin Offices 5900 SF
- Renovated Classroom Spaces:
  - Quiet Study Lounge
  - Team Study Rooms
  - Collaboration
  - Collision
  - Tutoring Room to Study Lounge

Level Three – 21,744 GSF

- Renovated Probasco Space:
  - Production Studio
  - Writing/Tutoring/Communications Lab
- Faculty
  - Deans Suite
  - Conference Room (352 SF)
- Renovated Bloomberg Lab Space:
  - Adjunct Faculty, G.A. Conference Room

Level Four – 21,280 GSF

- Faculty Offices
  - Conference Room (343 SF)
- Faculty Offices
  - Conference Room (333 SF)
- Faculty Offices
  - Breakroom (281 SF)

Under Construction

Gary W. Rollins College of Business
The University of Tennessee at Chattanooga
PRESENTATION: WORKSHOP 4, APRIL 2, 2020

Project Approach and Process

The Future of Business Education

Begins with Transformation

Project Roadmap

Aligning your facility with your strategic plan

Project Workplan

Business School Transformation

Past - Sites	Current - Blurring Sites	Future - Intersections

Gary W. Rollins COB _ Proposed New Space Summary

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- Assume 36 Hours per Week Usage (WRH) + Student Station Occupancy (SSO) of 80% or .8, Enrollment Growth to 3000
- Enrollment (2400 UG+Grad) and 22,000 WSCH = 9.2 Credit Hour per Student
- 1174 Seats Proposed + 1074 (66 x 2.4 x .8) Seat Capacity = 1174 x 36 x .8 = 33,800 Weekly Student Contact Hours
- Capacity = 28,000 WSCH / 9.2 Credit Hour per Student = 3000 Enrollment Growth
- Current Proposed = 21 Classrooms/Labs = (6) Specialty Labs, (1) Aud., (1) 100 Seat, (2) 75 Seat (9) 45 Seat, (2) Enterprise
- Provide Exec Ed Conference Center
- Provide Business Solutions Center including 6 Different Centers including Center for Innovation and Entrepreneurship
- Provide Community Learning area for 300 people
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- Student Incubator Space
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- Growth in Faculty Offices, Study Areas, Collaboration Areas, Meeting Rooms
- Expanded Student Success Center
Gary W. Rollins College of Business
The University of Tennessee at Chattanooga

Conceptual Program Diagrams

Gary W. Rollins COB - Concept Drivers

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• Key Components: Auditorium, Community Gathering, Center of Centers, Conference Center

Concept Evolution

Conceptual Plan Studies

D
STUDY 1

3
4

D
STUDY 1

D
STUDY 1
Preferred Concept

Parking – 50-60 Stalls / Level