1. Introduction
2. Our Approach
3. Methodology
4. Next Steps
5. Discussion

Agenda
Your Master Planning Team

SMITHGROUPJJR

Neal Kessler
Lead Campus Planner

Lauren Williams
Campus Planner

Frank Ricks
Architect

Dan Paulien
Lead Space Planner

David Bradford
Mechanical Engineer

Eric Luskin
Lead Housing Planner

Envision
strategies

Ann Roebuck
Lead Dining Planner

Randy Machelski
Senior Landscape Architect

Joe Wywrot
Civil Engineer

Steven Auterman
Urban Planner

Kate Herbsheimer
Space Planner

Hermes Lee
Electrical Engineer

Jason Taylor
Housing Planner

Sojo Alex
Dining Planner

THE UNIVERSITY OF MEMPHIS
A National Understanding of Public Universities.

Arizona State University  
Temple University  
East Carolina University  
Indiana University of Pennsylvania  
Arkansas State University  
Western Michigan University  
University of North Alabama  
Sam Houston State University
What Makes a Successful Master Plan?

Outcomes:
- Mission / Value Based
- Strategic
- Community Focused
- Inclusive
- Flexible
- Immediate & Long Range
- Sustainable
- Resource Focused
- Distinctive / Memorable
- Realistic

Components:
- Strong Guiding Principles
- Understanding of Space (Qualitative & Quantitative)
- Understanding of Systems
- Engagement
- Design Guidelines
- Phasing and Cost Estimates
- Campus-wide Consensus
- Proven Process
- A Fresh Perspective
Trends in Higher Education

- Creating Identity in a Crowded Market
- Competition for Limited State Funding
- Increased Accountability – Retention, Graduation
- Focus on Increased Efficiency
- Changing Student Demographics
- Demand for Enhanced Student Life Amenities
- Changing Pedagogies
- Growth in High Impact Learning Environments
- Rise in Online Education
- Continued Migration Towards Research
Our Approach
An Inclusive Approach

Tennessee Board of Regents

Inclusive
Comprehensive
Transparent
Sustainable
Non-Prescriptive
Actionable

President’s Council

Memphis Core Team

One Team

SGJJR Planning Team

Strategic Working Committee
Board of Visitors Working Group
Campus Committees
Open House Constituents

Iterative Design Based on Cumulative Decision-Making
Campus and Community Engagement

Campus Committees

Student Outreach

Campus Open Houses

Community Open Houses
Online Engagement
Methodology
Master Planning Process

- Videoconference
- Campus Visit
- Board of Regents Presentation
- THEC Commission Presentation
- SBC Presentation

5.0 Documentation
4.0 Refinement
3.0 Idea Generation
2.0 Analysis
1.0 Discovery

THE UNIVERSITY OF MEMPHIS

FACILITIES MASTER PLAN UPDATE
Task 1 – Discovery Phase

Understanding your Vision
Task 2 – Analysis Phase

Campus & Community Site Analysis

Data Layering
Informed Analysis
Framework
Scenario 1
Scenario 2
Scenario 3
Task 2 – Analysis Phase

Instructional Space Utilization

- How effectively is the University of Memphis using classroom and laboratory resources?
- Can they be used more efficiently?

**Weekly Room Hours**
The average number of hours per week a room is scheduled over a term or semester

**Student Station Occupancy**
The average percent of seats filled when a room is occupied during scheduled use.

<table>
<thead>
<tr>
<th>College / Unit</th>
<th>No. of Rooms</th>
<th>Average Room Size</th>
<th>Average ASF per Station</th>
<th>Average Section Size</th>
<th>Weekly Seat Hours</th>
<th>Average Weekly Room Hours</th>
<th>Hours in Use</th>
<th>Student Station Occupancy %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centrally Scheduled Space</td>
<td>112</td>
<td>1.002</td>
<td>17</td>
<td>46</td>
<td>20.6</td>
<td>41</td>
<td>66%</td>
<td></td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>32</td>
<td>2.026</td>
<td>20</td>
<td>18</td>
<td>9.2</td>
<td>17</td>
<td>56%</td>
<td></td>
</tr>
<tr>
<td>Graduate School of Education</td>
<td>3</td>
<td>5.13</td>
<td>16</td>
<td>16</td>
<td>0.4</td>
<td>18</td>
<td>51%</td>
<td></td>
</tr>
<tr>
<td>Law School</td>
<td>11</td>
<td>1.120</td>
<td>20</td>
<td>20</td>
<td>14.3</td>
<td>24</td>
<td>51%</td>
<td></td>
</tr>
<tr>
<td>Office of the Chief Information Officer</td>
<td>1</td>
<td>2.362</td>
<td>24</td>
<td>24</td>
<td>1.6</td>
<td>17</td>
<td>24%</td>
<td></td>
</tr>
<tr>
<td>School of Engineering and Applied Sciences</td>
<td>1</td>
<td>5.69</td>
<td>24</td>
<td>24</td>
<td>5.4</td>
<td>9</td>
<td>60%</td>
<td></td>
</tr>
<tr>
<td>School of Management</td>
<td>8</td>
<td>1.108</td>
<td>20</td>
<td>40</td>
<td>20.2</td>
<td>43</td>
<td>60%</td>
<td></td>
</tr>
<tr>
<td>School of Pharmacy and Pharmaceutical Sciences</td>
<td>3</td>
<td>5.16</td>
<td>15</td>
<td>13</td>
<td>3.7</td>
<td>9</td>
<td>62%</td>
<td></td>
</tr>
<tr>
<td>University Libraries</td>
<td>3</td>
<td>4.38</td>
<td>23</td>
<td>8</td>
<td>6.4</td>
<td>11</td>
<td>56%</td>
<td></td>
</tr>
<tr>
<td>Vice Provost for Undergraduate Education</td>
<td>1</td>
<td>2.78</td>
<td>18</td>
<td>16</td>
<td>0.9</td>
<td>9</td>
<td>77%</td>
<td></td>
</tr>
</tbody>
</table>

Total No. of Rooms = 175

AVERAGE: 927 Mon - Fri

**Weekly Room Hour Target = 35**
**Weekly Seat Hour Target = 23.45**
**Student Station Occupancy Target = 67%**
Space Needs Analysis

- How much space will be needed in the future to accomplish strategic goals?

### Table 1: Space Needs Analysis by Space Type

<table>
<thead>
<tr>
<th>SPACE CATEGORY</th>
<th>FALL 2006</th>
<th>MODERATE GROWTH</th>
<th>AGGRESSIVE GROWTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Existing</td>
<td>Guideline</td>
<td>surplus/deficit</td>
</tr>
<tr>
<td></td>
<td>ASF</td>
<td>ASF</td>
<td>(Devs/As)</td>
</tr>
<tr>
<td>Academic Space</td>
<td>Existing</td>
<td>Guideline</td>
<td>surplus/deficit</td>
</tr>
<tr>
<td></td>
<td>ASF</td>
<td>ASF</td>
<td>(Devs/As)</td>
</tr>
<tr>
<td>Classroom &amp; Services</td>
<td>102,404</td>
<td>107,517</td>
<td>5,113</td>
</tr>
<tr>
<td>Teaching Laboratories &amp; Service</td>
<td>88,730</td>
<td>78,027</td>
<td>10,703</td>
</tr>
<tr>
<td>Open Laboratories &amp; Service</td>
<td>57,339</td>
<td>47,181</td>
<td>(10,158)</td>
</tr>
<tr>
<td>Research Laboratories &amp; Service</td>
<td>38,816</td>
<td>30,285</td>
<td>(8,531)</td>
</tr>
<tr>
<td>Academic Offices &amp; Service</td>
<td>174,191</td>
<td>162,075</td>
<td>12,116</td>
</tr>
<tr>
<td>Physical Education &amp; Recreation</td>
<td>76,194</td>
<td>63,020</td>
<td>13,174</td>
</tr>
<tr>
<td>Other Academic Department Space</td>
<td>56,623</td>
<td>103,696</td>
<td>(47,073)</td>
</tr>
<tr>
<td>Academic Space Subtotal</td>
<td>522,561</td>
<td>519,678</td>
<td>0,883</td>
</tr>
<tr>
<td>Academic Support Space</td>
<td>Existing</td>
<td>Guideline</td>
<td>surplus/deficit</td>
</tr>
<tr>
<td></td>
<td>ASF</td>
<td>ASF</td>
<td>(Devs/As)</td>
</tr>
<tr>
<td>Administrative Offices &amp; Service</td>
<td>62,641</td>
<td>67,399</td>
<td>4,758</td>
</tr>
<tr>
<td>Library</td>
<td>65,021</td>
<td>63,197</td>
<td>(1,824)</td>
</tr>
<tr>
<td>Assembly &amp; Exhibit</td>
<td>40,179</td>
<td>42,024</td>
<td>1,845</td>
</tr>
<tr>
<td>Physical Plant</td>
<td>57,220</td>
<td>64,585</td>
<td>(7,365)</td>
</tr>
<tr>
<td>Other Administrative Department Space</td>
<td>17,776</td>
<td>25,392</td>
<td>(7,616)</td>
</tr>
<tr>
<td>Academic Support Space Subtotal</td>
<td>272,739</td>
<td>519,706</td>
<td>(246,967)</td>
</tr>
<tr>
<td>Auxiliary Space</td>
<td>Existing</td>
<td>Guideline</td>
<td>surplus/deficit</td>
</tr>
<tr>
<td></td>
<td>ASF</td>
<td>ASF</td>
<td>(Devs/As)</td>
</tr>
<tr>
<td>Administration</td>
<td>180,158</td>
<td>200,000</td>
<td>(20,842)</td>
</tr>
<tr>
<td>Student Centers</td>
<td>60,151</td>
<td>67,176</td>
<td>(7,025)</td>
</tr>
<tr>
<td>Health Care Facilities</td>
<td>2,538</td>
<td>3,135</td>
<td>(598)</td>
</tr>
<tr>
<td>Auxiliary Space Subtotal</td>
<td>177,877</td>
<td>227,207</td>
<td>(49,330)</td>
</tr>
<tr>
<td>CAMPUS TOTAL</td>
<td>1,025,117</td>
<td>1,261,252</td>
<td>(100,135)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FACILITIES MASTER PLAN UPDATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assigned Square Feet (ASF)</td>
</tr>
<tr>
<td>Amenity</td>
</tr>
<tr>
<td>Educational Conversion Space</td>
</tr>
<tr>
<td>Residence Life</td>
</tr>
<tr>
<td>Parking Garages</td>
</tr>
<tr>
<td>McDonald Buildings</td>
</tr>
</tbody>
</table>

ASF = Assignable Square Feet
Task 2 – Analysis Phase

**Housing & Dining Assessment**

- Review Operational Data
- Evaluate Existing Facilities
- Understand Strategic Goals
- Develop Specific Recommendations
  - Capacities, Mix, Distribution of Housing and Dining
- Strategies for Effective Marketing
- Potential Partnership Opportunities
Task 2 – Analysis Phase

Facilities Assessment & Capital Maintenance Planning
Task 2 – Analysis Phase

Campus Infrastructure Evaluation

- **EXISTING**
- **GAP ANALYSIS**
- **DISTRIBUTION**
- **ELECTRICAL MECHANICAL STORM / SAN**
Task 3 – Idea Generation

Generating the Spatial Model
Task 3 – Idea Generation

Developing the Campus Framework
Task 4 – Refinement Phase

Preliminary Master Plan

Data Informed Metrics

<table>
<thead>
<tr>
<th>Category</th>
<th>Today</th>
<th>Target/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Campus Population</td>
<td>17,436</td>
<td>20,287</td>
</tr>
<tr>
<td>Student Headcount</td>
<td>15,900</td>
<td>18,500</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>13,992</td>
<td>16,280</td>
</tr>
<tr>
<td>Graduate</td>
<td>1,909</td>
<td>2,220</td>
</tr>
<tr>
<td>Graduate Percentage</td>
<td>12%</td>
<td>12%</td>
</tr>
<tr>
<td>Faculty</td>
<td>751</td>
<td>874</td>
</tr>
<tr>
<td>Staff</td>
<td>765</td>
<td>913</td>
</tr>
<tr>
<td>Campus Area</td>
<td>272 ac.</td>
<td>272 ac.</td>
</tr>
<tr>
<td>Total Building GSF</td>
<td>3,377,356 gsf</td>
<td>4,874,564 gsf</td>
</tr>
<tr>
<td>Campus FAR</td>
<td>0.29</td>
<td>0.41</td>
</tr>
<tr>
<td>Academic GSF</td>
<td>2,347,939 gsf</td>
<td>3,423,272 gsf</td>
</tr>
<tr>
<td>Academic NASF/Student</td>
<td>97 nasf</td>
<td>120 nasf</td>
</tr>
<tr>
<td>Academic NASF</td>
<td>1,547,917 nasf</td>
<td>2,220,000 nasf</td>
</tr>
<tr>
<td>Residential Units</td>
<td>3,500</td>
<td>4,625</td>
</tr>
<tr>
<td>Residential GSF</td>
<td>1,029,417 gsf</td>
<td>1,451,292 gsf</td>
</tr>
<tr>
<td>Residential Ratio</td>
<td>0.22</td>
<td>0.25</td>
</tr>
<tr>
<td>Total Parking Spaces</td>
<td>5,789</td>
<td>6,740</td>
</tr>
<tr>
<td>Parking Ratio</td>
<td>3.01</td>
<td>3.01</td>
</tr>
</tbody>
</table>
Task 4 – Refinement Phase

Design Guidelines

• Architectural Details
  Aesthetics, Character, Form, Fenestration

• Urban Design Criteria
  Campus Structure, Open Space

• Public Realm
  Gateways, Pedestrian Realm, Streetscape, Parking

• Infrastructure
  Building Systems Integration

• Materials
  Architectural, Landscape
Task 4 – Refinement Phase

Final Master Plan
Task 4 – Refinement Phase

Phasing & Implementation Plan

Balancing Goals:
- University mission
- Academic needs
- Funding opportunities
- Impact on recruiting/retention
- Required infrastructure
- Pedestrian and vehicular circulation
- University services (parking, security, egress)