Technology in Campus Planning

Tools We Use: Analysis
Technology in Campus Planning

Tools We Use: Space Planning

**Space Needs Tabular Results (ASB)**

<table>
<thead>
<tr>
<th>Space</th>
<th>Existing</th>
<th>Scenario</th>
<th>Surplus/Deficit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classrooms</td>
<td>22,472</td>
<td>46,005</td>
<td>23,523</td>
</tr>
<tr>
<td>Teaching Labs</td>
<td>6,351</td>
<td>39,089</td>
<td>32,738</td>
</tr>
<tr>
<td>Research Labs</td>
<td>0</td>
<td>23,618</td>
<td>23,618</td>
</tr>
<tr>
<td>Office &amp; Support</td>
<td>26,805</td>
<td>53,429</td>
<td>26,624</td>
</tr>
<tr>
<td>Library &amp; Study</td>
<td>5,563</td>
<td>50,762</td>
<td>45,199</td>
</tr>
<tr>
<td>Other Study Space</td>
<td>0</td>
<td>20,688</td>
<td>20,688</td>
</tr>
<tr>
<td>Media</td>
<td>0</td>
<td>5,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Campus Life</td>
<td>52,551</td>
<td>64,353</td>
<td>11,802</td>
</tr>
<tr>
<td>Support</td>
<td>1,330</td>
<td>33,990</td>
<td>32,660</td>
</tr>
<tr>
<td>Healthcare</td>
<td>0</td>
<td>2,576</td>
<td>2,576</td>
</tr>
<tr>
<td>Sub-total</td>
<td>74,047</td>
<td>136,296</td>
<td>62,249</td>
</tr>
<tr>
<td>Recreation</td>
<td>3,782</td>
<td>59,081</td>
<td>55,299</td>
</tr>
<tr>
<td>Residential</td>
<td>53,198</td>
<td>156,737</td>
<td>103,539</td>
</tr>
<tr>
<td>Total</td>
<td>127,807</td>
<td>600,033</td>
<td>472,226</td>
</tr>
</tbody>
</table>

**Space Needs Graphical Results (ASB)**

- **Existing Space**: 127,807
- **Scenario Need**: 600,033
  - **Residential**: 156,737
  - **Classrooms**: 22,472
  - **Research Labs**: 23,618
  - **Office & Support**: 53,429
  - **Library & Study**: 50,762
  - **Other Study Space**: 20,688
  - **Support**: 33,990
  - **Healthcare**: 2,576

**Enrollment, Faculty, and Staff Data (Use Sliders to Adjust Growth Scenario)**

- **Academic Programs**
  - **Art & Technology**
    - Undergraduate: 405
    - Graduate: 24
    - Change: 0
  - **Education**
    - Undergraduate: 143
    - Graduate: 70
    - Change: 0
  - **Engineering**
    - Undergraduate: 494
    - Graduate: 52
    - Change: 0
  - **Environmnet**
    - Undergraduate: 832
    - Graduate: 27
    - Change: 0
  - **Health & Wellness**
    - Undergraduate: 813
    - Graduate: 202
    - Change: 0
  - **Lab Science**
    - Undergraduate: 569
    - Graduate: 27
    - Change: 0
  - **Liberal/Social Science**
    - Undergraduate: 758
    - Graduate: 0
    - Change: 0
  - **Other**
    - Undergraduate: 53
    - Graduate: 0
    - Change: 0

- **Tenure-Track Faculty**
  - Arts & Technology: 36
  - Education: 27
  - Engineering: 27
  - Environmnet: 17
  - Health & Wellness: 17
  - Lab Science: 27
  - Liberal/Social Science: 17
  - Other: 17

- **Tenure-Track Faculty**
  - Arts & Technology: 115
  - Education: 87
  - Engineering: 62
  - Environmnet: 37
  - Health & Wellness: 37
  - Lab Science: 27
  - Liberal/Social Science: 27
  - Other: 17

- **Full Time**: 915
- **Part Time**: 175
- **Total**: 1090

- **Non-Residential set per student**: 23

- **Enrollment Growth**
  - **Change in Enrollment by Program**: 20%
  - **Change in Faculty**: 0%

- **Space Needs**
  - **Classrooms**: 22,472
  - **Teaching Labs**: 6,351
  - **Research Labs**: 0
  - **Office & Support**: 26,805
  - **Library & Study**: 5,563
  - **Other Study Space**: 0
  - **Media**: 0
  - **Campus Life**: 52,551
  - **Support**: 1,330
  - **Healthcare**: 0
  - **Sub-total**: 74,047
  - **Recreation**: 3,782
  - **Residential**: 53,198
  - **Total**: 127,807

- **Space Needs**:
  - **Existing**: 127,807
  - **Scenario**: 600,033

- **Attendee Room Footprint**
  - **Classrooms**: 22,472
  - **Teaching Labs**: 6,351
  - **Research Labs**: 0
  - **Office & Support**: 26,805
  - **Library & Study**: 5,563
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- **Attendee Room Footprint**
  - **Existing**: 127,807
  - **Scenario**: 600,033

- **Room Types**
  - **Classrooms**: 22,472
  - **Teaching Labs**: 6,351
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Flexible, Active, and Interdisciplinary Learning Environments
Trinity University and University of Houston
Redefining the Library
Lorain County Community College, Atlanta University Center, Duke University
Smart Buildings
De Anza College
Technology’s Impact on Health
Studies of Negative Effects

Heavy Technology Use Linked to Fatigue, Stress and Depression in Young Adults

Digital device use leads to eye strain, even in kids

Exposure to blue light at night, emitted by electronics and energy-efficient lightbulbs, harmful to your health.

A New Link Between Depression and Social Media Use
The most frequent social media users are more depressed. Why?
Technology’s Impact on Health
Studies of Negative Effects

Study links mobile device addiction to depression and anxiety

How the Internet is Changing Your Brain

How Modern Technology Is Destroying Your Posture At Work

Study: Internet Addicts Suffer Withdrawal Symptoms Like Drug Users
Obsessive internet users can undergo ‘comedowns’ similar to those experienced by people using ecstasy, researchers say.

By Ollie John | Feb. 19, 2013
Mobile Devices on Campus
Safety Concerns
Mobile Devices on Campus
New Ways to Engage
Landscape as Antidote
Benefits of Outdoor Environment Engagement

- Improve physical fitness
- Improve vision
- Reduce ADHD symptoms
- Enhance critical thinking and creativity
- Improve academic performance
- Decrease stress
- Improve mood
- Increase social behavior
- Boost immunity
Functions of the Campus Landscape
Historically and Today

- **CEREMONY**
- **RESTORE**
- **SOCIAL INTERACTION**
- **PLAY**
Historic Campus Lawn
University of Virginia
Historic Gardens
University of Virginia
South Lawn Today
University of Virginia
Urban Campus Landscape
Portland State University
Urban Campus Landscape
Portland State University
Landscape’s Role in the Research Campus
Berkeley Global Campus at Richmond Bay
Landscape’s Role in the Tech Campus

Facebook Roof Garden
Landscape’s Role in the Tech Campus
Bay View Tech Campus
Landscape’s Role in the Tech Campus
Bay View Tech Campus