Texas A&M University

College of Geosciences

Space Needs Assessment

Council for the Built Environment
Office of Facilities Coordination
February 2010

Campus Wide Space Needs Assessment

Units to be Assessed

- Agriculture & Life Sciences
  - Academic Units
  - AgriLife Research
  - AgriLife Extension
  - Texas Forest Service
  - Texas Veterinary Medical Diagnostic Laboratory
- Architecture
- Bush School of Government & Public Service
- Mays Business School
- Education & Human Development
- Dwight Look College of Engineering
  - Academic Units
  - Texas Engineering Experiment Station
  - Texas Engineering Extension Service
  - Texas Transportation Institute
- Geosciences
- Liberal Arts
- Science
- Veterinary Medicine & Biomedical Sciences

Provost Request
- Academic Support Units
Geosciences

**Faculty Reinvestment**

- **CBE**

**Geosciences**

**Square Feet**

**Normalized Need:** (6,375)

- **Phase I Gain** + 2,375

**Post Phase I Need** (4,000)

- **Phase II Gain** + 4,621

**Post Phase II Need** 621

- **Fall 2008 SNAPS** (47,957)

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**Campus Wide Space Needs Assessment**

Office of Facilities Coordination  
Texas A&M University

**Geosciences**

**Summary**

<table>
<thead>
<tr>
<th>Space Needs</th>
<th>Unit</th>
<th>Current</th>
<th>Computed</th>
<th>Difference</th>
<th>Actual of</th>
<th>Headcount</th>
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<tr>
<td>Geosciences</td>
<td>Building Design</td>
<td>O&amp;M efficiencies difficult</td>
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<tr>
<td>Geosciences</td>
<td>Fire &amp; Life Safety</td>
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<td>Geosciences</td>
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<tr>
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<td>Department Detail</td>
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**COMPUTED SPACE NEEDS**

**Fall 2008**

<table>
<thead>
<tr>
<th>Assignable Area</th>
<th>Agriculture</th>
<th>Animal Sci</th>
<th>Geosciences</th>
<th>Rural Life</th>
<th>Total</th>
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<tbody>
<tr>
<td>Computed</td>
<td>594</td>
<td>31,680</td>
<td>3,375</td>
<td>185,780</td>
<td>225,000</td>
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<tr>
<td>Actual of</td>
<td>594</td>
<td>31,680</td>
<td>3,375</td>
<td>185,780</td>
<td>225,000</td>
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</table>

**Adjustments**

| Plus Classroom | 536 | 0 | 0 | |
| Total | 319,195 | 706,069 | -47,424 | 6.74 |
**Geosciences**

**Phase I Report**

<table>
<thead>
<tr>
<th>College</th>
<th>Department</th>
<th>Assignable Area</th>
<th>Total Current</th>
<th>Actual Cost</th>
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<td>Geosciences</td>
<td></td>
<td>4,446</td>
<td>2,375</td>
<td>7,450</td>
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<td>Data space to Science</td>
<td>Geology</td>
<td>666</td>
<td>0</td>
<td>6,000</td>
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<td>DPC, Addition Expansion</td>
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<td>6,023</td>
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<td>3,780</td>
<td>3,175</td>
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**Phase II**

**Faculty Reinvestment Space Status**

<table>
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<tr>
<th>Space Assignments by Year</th>
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<tr>
<td>DRAFT</td>
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<tr>
<td>Year</td>
</tr>
<tr>
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</tr>
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<td>Texas</td>
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<tr>
<td>TAMU Engineering</td>
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<tr>
<td>DPC Admin</td>
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</table>

**Faculty Reinvestment**

**Geosciences**

**Square Feet**

- **Normalized Need:** (6,375)
  - Phase I Gain: +2,375
  - **Post Phase I Need:** (4,000)
    - Phase II Gain: +4,621
      - **Post Phase II Need:** 621
    - Fall 2008 SNAPS: (47,957)
**Planning Horizon**

- **Fall 2008**
  - Current Space Needs Assessment
    - Post Faculty Reinvestment
    - Establishes the Planning Standards
    - Basis for future projections

- **Feb/March 2010**
  - CBE engages Colleges
    - Discuss Strategic Priorities
    - Impact on Space Needs
    - Planning Horizon: 5 Years

- **Fall 2015**

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**Geosciences**

### COMPUTED SPACE NEEDS

<table>
<thead>
<tr>
<th>Department/User Name</th>
<th>CURRENT</th>
<th>Computed</th>
<th>Difference</th>
<th>Actual of</th>
<th>Headspace</th>
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<td>388,536</td>
<td>-71,907</td>
<td>97,500</td>
<td>734</td>
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<tr>
<td><strong>Total</strong></td>
<td>318,629</td>
<td>388,536</td>
<td>-71,907</td>
<td>97,500</td>
<td>734</td>
</tr>
</tbody>
</table>

### Adjustment

- **Post-Cancellation**
  - 30
- **Lease**
  - 0

**Adjusted Total**

- 318,165
- 384,560
- -71,425
- 97,500
- 734
# Facility Condition Analysis (FCA)

**College of Geosciences**

**Texas A&M University**

<table>
<thead>
<tr>
<th>Building #</th>
<th>Building Name</th>
<th>Year Built</th>
<th>GSF</th>
<th>Replacement Cost</th>
<th>Total Project Cost *</th>
<th>FCNI **</th>
<th>Assigned GSF</th>
<th>% Assigned GSF</th>
<th>Share of Project Cost</th>
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<td>1,394</td>
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<td>108</td>
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<td>109</td>
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<td>443</td>
<td>OCEANOGRAPHY &amp; METEOROLOGY BUILDING</td>
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<td>$41,487,549</td>
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<td>96.05</td>
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<td>1966</td>
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<td>$12,385,156</td>
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<td>95.06</td>
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<td>517</td>
<td>DPC ANNEX</td>
<td>1966</td>
<td>26,220</td>
<td>7,296,000</td>
<td>$5,642,335</td>
<td>0.77</td>
<td>11,834</td>
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<td>1597</td>
<td>IODP HAZMAT CONTAINMENT</td>
<td>1980</td>
<td>85,075</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>30</td>
<td>0.40</td>
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<td>INTEGRATED OCEAN DRILLING BUILDING</td>
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<td>$16,025,325</td>
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<td>89.39</td>
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<td>OCEANOGRAPHY BUILDING</td>
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<td>60.56</td>
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<td>GERP MAIN OFFICE BUILDING</td>
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<td>3,596,000</td>
<td>551,135,660</td>
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<td>3051</td>
<td>GERP EAST LAB &amp; OFFICE BUILDING</td>
<td>1999</td>
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<td>293</td>
<td>36,000</td>
<td>$1,150</td>
<td>0.03</td>
<td>196</td>
<td>66.89</td>
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<td>3400</td>
<td>UNIVERSITY SERVICES BLDG</td>
<td>1982</td>
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<td>32,072,000</td>
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<tr>
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<td>OFFICE BLDG</td>
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<td>n/a</td>
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<td>4.78</td>
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<td>IODP/OCEANOGRAPHY BLDG</td>
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<td>OCEAN DRILLING TEST FACILITY</td>
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<td>n/a</td>
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<td>8512</td>
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<td>4,829</td>
<td>38.36</td>
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</tbody>
</table>

*Includes capital renewal, deferred maintenance and plant adaptation for the next ten years

**Facility condition needs index (total project cost / replacement cost)
Fire and Life Safety Report for College of Geosciences Facilities
February 10, 2010

Acronyms:  FAS – Fire alarm system  
           FCA – Facility condition analysis  
           SFM – State Fire Marshal

0105, 0108, 0109 - Trailer Houses (3) @ Tereco
- Old FAS – Very little coverage; no sprinkler
- Items on FCA List – None

0108 - Trailer House @ Tereco
- Old FAS – Very little coverage; no sprinkler
- Items on FCA List – None

0109 - Trailer House @ Tereco
- Old FAS – Very little coverage; no sprinkler
- Items on FCA List – None

0443 - Oceanography & Meteorology Building
- Fully Sprinkled, good FAS, SFM approved compliance; needs some exit sign and emergency lighting upgrade
- Items on FCA List – Exit signs and Emergency light upgrade; fire rating compromises (penetrations)

0445 - Teague Research Center
- Not sprinkled; good FAS; Has general FLS minor issues – hardware, door ratings not code compliant, needs exit signs and emergency lighting upgrade
- Items on FCA List – Sprinkler system

0490 - Halbouty Geosciences Building
- Not sprinkled; needs FAS replacement; exit signage and emergency lights
- Items on FCA List – Exit signs; FAS; Sprinkler; Elevator Lobby Enclosure

0517 - DPC Annex
- Not sprinkled; Fairly new FAS; needs exit sign and emergency lighting upgrade
- Items on FCA List – Fire Sprinkler & Exit Signage

1597 - IODP Hazmat Containment
- Small 20 sqft building – For core samples – not occupied; equipped with detector and Hawkeye – no concerns from FLS standpoint
- Items on FCA List – None
1601 - Integrated Ocean Drilling Building
- Only sprinkler is a water curtain between shop and office areas.
- 2 separate fire alarm systems - Old system needs to be replaced or added to new system installed with the addition a few years ago.
- Items on FCA List – Fire alarm; exit signs; sprinkler

2914 - 2700 Earl Rudder Fwy South, Suite 1800
- Leased Property – No information

3003 - OCEANOGRAPHY BUILDING
- Galveston Campus

3050 - GERG Main Office Building
- Off Graham Road; Labs & offices – old FAS
- Items on FCA List – FAS

3051 - GERG East Lab & Office Building
- Off Graham Road;
- Labs & offices – old FAS
- Items on FCA List – Sprinkler

3053 - GERG Portable Building
- Off Graham Road
- No sprinkler or FAS
- Items on FCA List – None

3054 - GERG Warehouse
- Off Graham Road
- No sprinkler or FAS
- Items on FCA List – Sprinkler & emergency lights

3055 - GERG SOLVENT SHED
- Off Graham Road
- No sprinkler or FAS
- Items on FCA List – None

3056 - GERG GAS SHED
- Off Graham Road
- No sprinkler or FAS
- Items on FCA List – None

3400 - UNIVERSITY SERVICES BLDG
- ½ of building without active sprinkler coverage
- Very old FAS
- Items on FCA List – Emergency Shower; Fire Alarm System; Exit signs
8031 - IODP/OCEANOGRAPHY BLDG
  • Riverside facility – no sprinkler, FAS, emergency light/exit sign
  • Items on FCA List – None

8032 - OCEAN DRILLING TEST FACILITY
  • Riverside facility – no sprinkler, FAS, emergency light/exit sign
  • Items on FCA List – None

8512 - WAREHOUSE
  • Riverside facility – no sprinkler, FAS, emergency light/exit sign
  • Non-occupied facility
  • Items on FCA List – None

8516 - WAREHOUSE
  • Riverside facility – no sprinkler, FAS, emergency light/exit sign
  • Non-occupied facility
  • Items on FCA List – None