Do More with Less

Using Design to Improve Your Bottom Line

ICCCFO
Spring 2010 Conference

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DLR Group
Architecture  Engineering  Planning  Interiors
Issues Affecting Space

• Increased Enrollment

-March 2009 survey of community college presidents
-The Campus Computing Project report

“86% saw increased full-time enrollment from one year ago, 77% increased enrollment in workforce development programs, 62% increase in reverse transfer students from four-year colleges.”
Declining Funding

Issues Affecting Space

• Declining Funding
  • $1.3 Billion Dollar reduction for education in Illinois
• Increased costs
  • Maintenance
  • Cleaning
  • Energy
• Increased Student Diversity
• Increased Expectations
How are Community Colleges Responding

• Do More with Less
• Reach More with Less
• Connect More with Less
• Impact More with Less
• Planning for More

“How to meet the increased space needs with limited funds and still address the pedagogical trends and issues”
Declining Funding

Do More with Less

• Minimize New Construction
  • Maximize additions & renovations

60% - 40% Renovation – New
90% - 10% Renovation – New

• Master Planning, Pre-design and Programming

Society for College and University Planning
INTEGRATED PLANNING FOR HIGHER EDUCATION

www.JatinderKalsi.8m.com

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Architecture Engineering Planning Interiors
Do More with Less

*Integrated Master Planning*

• “How will the campus look in 25 years?”
  *Architectural Response*

• “What building do we need and why?”
  *Infrastructure Implications Index*

• “Need to Build Campus Wide Consensus”
  *Process*

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Plan for More
Integrated Master Planning

VISION
Experience, Inspiration, Concept

ACADEMIC PLAN
Type of spaces needed

STRATEGIC PLAN
Schedule & Path

DEFERRED MAINTENANCE
Current Infrastructure

BASIC DATA
Scale and Priorities

As outlined by The Council of Education Facilities Planners International

DLR Group
Architecture Engineering Planning Interiors

Crown College
## Infrastructure Implications Index

**March 10, 2010**

<table>
<thead>
<tr>
<th>Item</th>
<th>2010 - 2011</th>
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Impact More with Less

• Infrastructure Design
• Energy Reduction
• How to Grow
• Decisions today will effect you tomorrow

American Colleges & University Presidents Climate Commitment

Utility data can be viewed as a whole or in pieces. By breaking down consumption by source one can develop a better idea of the largest energy consumers and be able to better address individual systems to understand how the individual building consumes energy and thus reduce energy consumption.
## College of Saint Benedict

### Energy Intensity - Steam & Power Combined

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<tr>
<th>Building</th>
<th>square foot</th>
<th>kWh</th>
<th>kWh / ft</th>
<th>Elec btu / ft</th>
<th>Steam #</th>
<th>Steam # / ft</th>
<th>Steam btu / ft</th>
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<td>13,514</td>
<td>4,340,793</td>
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<td>1,441,923</td>
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<td>27,479</td>
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<td>11.21</td>
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<td>70.72</td>
<td>68,622</td>
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<td>Brian Hall</td>
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<td>7.47</td>
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[Graph showing energy intensity comparison]
Do More with Less

Programming

• Data Collecting
  • Site Investigation
  • Department Needs
    • Space Unit Diagrams
  • Existing Facility Capabilities
• Data Analysis and Organization
• Adjacency Investigation
• Existing Facility
• Site Organization

3D Site & Space Analysis
Compare Need with Facility Capabilities
Documentation
Clear and Sequential
Compelling
Build Consensus

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Do More with Less

- Increase utilization
  - Flexible classrooms
  - Technology Standards
  - Space Standards
    - Academic
    - Think Stop
    - Administration
    - Student Support

(Hotel ing DMACC Corp Model influence)
Coal Ben
Do More with Less

- Better use of existing
  - Campus as a classroom
  - Space Mining
  - Non-traditional space
Increasing Enrollment

Reach More with Less

• Space Configuration
  • Lab/Lecture
  • Stacked / Shared Scheduling
  • Simulation
• On Line Accessibility
  • Blended
  • On Line
  • Industry Relevance
  • Wireless Campus

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Architecture Engineering Planning Interiors
Increasing Diversity

Connect More with Less

• Support social learning
• Spatial connections
• Support services
• Individualized Relationships
  • Impact on student and retention

Transparency

DLR Group
Architecture Engineering Planning Interiors
Using Design to Improve Your Bottom Line

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Michael Koalska

Questions & Answers
Impact More with Less

• Right Size Programs
  • Balance Class Size
  • Combine Times
• Real-world learning
  • Relevant
  • Connectivity
Plan for More

Do More with Less

• Mission Based Planning
• Work together
  • departments
  • campus
  • community
• Align with Political and Industry needs
• Look for synergies
• Work the plan and adjust for reality
• Value-based construction
  • flexible/adaptable
    • Soft Construction
• mission focused
• Combining Resources
• Facilities Management System
• Staff and Student Attraction and Retention

Crown College Existing

DLR Group
Architecture Engineering Planning Interiors
Impact More with Less

• Infrastructure Design
  • President Climate Commitment
• Energy Reduction
• How to Grow
• Decisions today will effect you tomorrow