15th ANNUAL FACILITIES OFFICERS CONFERENCE PLANNING FOR HOUSING & SUPPORT FACILITIES

PRESENTED BY PAUL BRAILSFORD | OCTOBER 28TH, 2011







AGENDA

Introduction

- Studying vs Planning
- Managing Outcomes
- Understanding Demand
- Predictive Modeling
- ♦ Q & A





 Studying is "The Application of Mental Faculties to the Acquisition of Knowledge"



Intellectual Curiosity

 Planning is "The Process of Formulating a Program of Action"



Targeted New Reality





- Planning is "The Process of Formulating a Program of Action"
 - » Action => Investment
 - » Investment
 - Value 🔶 Maximize
 - Risk 🛛 🚝 Mitigate



Value Mitigates Risk





Key Risk Categories

- Supply / Demand Risk
- Price / Value Risk
- Demographic Risk
- Alternative Product Risk
- Culture Evolution Risk
- Financing Risk
- Operating Cost Risk
- Management Risk



Predictive Analytics are the Foundation of a Solid Risk Mitigation Plan



Understanding Value – two types

Residual Land Value

Strategic Asset Value

Residence halls, recreation centers, student unions and related mixed-use facilities are perfect targets for value creation because they generate revenue.









Value must exceed cost





Calculating Residual Value

Dividing the NOI by the Cap Rate yields the project's capitalized value.

NOI = Net Operating Income (Revenue less Mandatory Operating Expenses)

Cap Rate = (Cost of Debt x % of Debt) + (Cost of Equity x % of Equity)

Example: (6.25% x .75) + (8.5% x .25) = 6.81%





Calculating Residual Value

Example: NOI = \$1,000,000

Cap Rate = 6.81%

Value = <u>\$14,678,899</u> (\$1,000,000 / 6.81%)

Subtracting Project Cost from Project Value Determines Residual Value.

Project cost = <u>\$13,900,000</u>

Residual Value = <u>\$778,899</u> (\$14,678,899 - \$13,900,000)





Strategic Asset Value

- Educational Outcomes
- Enrollment Management
- Campus Community

Strategic Asset Value Generates Institutional Will & Defines Required Financial Performance





Institutional Debt Capacity Dynamics

- Marginal Debt Capacity Decreases with Increased Debt.
- Revenue Generating Projects with Positive Residual Value Increase Debt Capacity.
- High Value Strategic Assets Increase Debt Capacity and Credit Quality Over time.





The future is not a result of choices among alternative paths offered by the present, but a place that is createdcreated first in the mind and will, created next in activity. The future is not some place we are going to, but one we are creating. The paths are not to be found, but made, and the activity of making them, changes both the maker and the destination

John Schaar







Defining feasibility in the context of value maximization

It's a reconciliation process



- » Market Demand / Facility Program
- » Facility Program / Site
- » Site / Budget
- » Program / Budget
- » Quality / Budget
- » Program / Patron Capacity
- » Patron Capacity / Revenue Projections
- » Revenues / Market Depth
- » Budget / Cost
- » Cost / Debt Capacity
- » Revenues / Expenses
- » Debt Capacity / Expenses
- » Mission / Risk Tolerance
- » Risk Tolerance / Ownership Structure
- » Ownership Structure / Capitalization
- » Capitalization / Risk Capacity









OBJECTIVES

- » Stakeholder Interviews
- » Demographic Analysis
- » Intercept Interviews
- » Strategic Asset Value
 Analysis (SAV) / Visioning

- » Concept / Mission
- Market Demand / Facility Program
- » Facility Program / Site
- » Site / Budget
- » Program / Budget
- » Quality / Budget
- » Program / Patron Capacity
- » Patron Capacity / Revenue Projections
- » Revenues / Market Depth
- » Budget / Cost
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- » Ownership Structure / Capitalization
- » Capitalization / Risk Capacity



Office of Real Estate and Facilities



OBJECTIVES

INITIATIVES

- » Focus Group Interviews
- » Quick & Dirty Program & Financial Modeling
- » Competitive Context Analysis



» Concept / Mission

- Market Demand / Facility Program
- » Facility Program / Site
- » Site / Budget
- » Program / Budget
- » Quality / Budget
- Program / Patron Capacity
- Patron Capacity / Revenue Projections
- » Revenues / Market Depth
- Budget / Cost
- » Cost / Debt Capacity
- » Revenues / Expenses
- » Debt Capacity / Expenses
- » Mission / Risk Tolerance
- » [Risk Tolerance / Ownership Structure]
- » Ownership Structure / Capitalization
- » Capitalization / Risk Capacity



OBJECTIVES

INITIATIVES

PLANS

- » Web-based Survey
- » Demand-based
 Programming (DBP)
- » Comparable Facilities
 Analysis / Supply Inventory
- » Detailed Financial Model

- Concept / Mission
- Market Demand / Facility Program
- » Facility Program / Site
- » Site / Budget
- » Program / Budget
- » Quality / Budget
- » Program / Patron Capacity
- Patron Capacity / Revenue Projections
- Revenues / Market Depth
- » Budget / Cost
- » Cost / Debt Capacity
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- » Debt Capacity / Expenses
- Mission / Risk Tolerance
- » Risk Tolerance / Ownership Structure
- » Ownership Structure / Capitalization
- Capitalization / Risk Capacity





OBJECTIVES INITIATIVES

PLANS

PROJECTS

- » Enhanced Financial Modeling
- » Site Selection
- Analysis of Financing & Ownership Options
- » Sensitivity Analyses / Initial
 Value Engineering
- » Project Cash Flow Analysis

- Concept / Mission
- Market Demand / Facility Program
- Facility Program / Site
- » Site / Budget
- » Program / Budget
- » Quality / Budget
- » Program / Patron Capacity
- Patron Capacity / Revenue Projections
- » Revenues / Market Depth
- Budget / Cost
- Cost / Debt Capacity
- » Revenues / Expenses
- » Debt Capacity / Expenses
- Mission / Risk Tolerance
- Risk Tolerance / Ownership Structure
- Ownership Structure / Capitalization
- Capitalization / Risk Capacity





The Importance of Knowledge

"The greatest impediment to progress is not ignorance, but the illusion of knowledge." *Albert Einstein*

"What get us in trouble is not what we don't know, it's what we know for certain that just ain't so." Yogi Berra









What Is Knowable?

- Market and Submarket Size & Composition
- Current Behavior by Demographic Characteristics
- Preference Schedules by Submarket
- Aversion Schedules by Submarket
- Supply Inventory & Characteristics
- Supply Performance
- Barriers to New Entries





Student Housing



P

Demand is Product Specific

- -- Neighborhood Attributes
- -- Location
- -- Configuration / Features / Amenities
- -- Quality / Services
- -- Reputation





Q

Value Equation Drives Choices

- > High Cost / High Value
- Moderate Cost / Moderate Value
- Low Cost / Low Value





Office of Real Estate and Facilities "Creating A More Educated Georgia"



P

Demand vs. The Quantity Demanded



Changes in population, consumer tastes, popular culture, alternative products, product enhancements and the economy shift demand.



Q









			Distance	Driving			Unit Types / Average Rent / Average Square Feet Per Unit				nt
Property	Address	Telephone	(miles) From Campus	(min.) From Campus	Total # of Units	Available Unit Types	Studio	1BR	2BR	3BR	4BR
1 Applegate (Campus Walk)	333 Foster Street	(770) 834-0031	0.6	2	120	18R/18A, 28R/28A, 38R, /8A		\$519 / 528 SF	\$765 / 614 SF	\$945 / 700 SF	
2 Ashley Oaks	1121 Rome Street	(770) 832-7788	2.4	5	80	28R/28A, 38R/38A			\$655 / 1,153 SF	\$740 / 1457 SF	
3 Azalea Place	106 Azalea Place	(770) 830-6827	2.6	8	42	28R/1.58A			\$560 / 950 SF		
4 Beulah Park	123 Beulah Church Road	(770) 836-0559	4.0	8	32	2BR/2BA			\$895 / n/a		
5 Campus Quad	316 Columbia Drive	(770) 214-8435	2.5	6	168	28D/28A, 38D/38A, 48D/48A			\$970 / 1,129 SF	\$1,215 / 1,187 SF	\$1,540 / 1,336 SF
6 Canterbury Heights	101 Mitchell Circle	(770) 836-0559	2.7	7	20	2BR/1BA			\$575 / n/a		
7 Carroliton Place / Crossing	1205 Maple Street	(770) 214-0007	0.3	1	84	4BR/BA					
8 Cedar Street Townhomes	630 Cedar Street	(770) 834-2787	2.4	7	32	28R/1.58A			\$568 / n/a		
9 Cedar Villas	624 Cedar Street	(770) 836-0559	2.4	7	15	2BR/2.5BA, 3BR/2.5BA					
10 Chateau	460 Hays MII Road	(770) 832-9357	1.0	1	208	18R/18A, 28R/28A, 38R, 28A		\$440 / 550 SF	\$525 / 900 SF	\$665 / 1,300 SF	
11 Mandeville Mill Lofts	367 Lovvorn Rd.	(770) 838.7545	1.4	2	78	28R/18A, 28R/28A, 38R/18A, 48R/18A, 48R/18A, 48R/28A, 58R/28A	\$440 / 800 SF	\$525 / 800 SF	\$660 / 1,100 SF	\$700 / 1,450 SF	
12 River Place	915 Lovvorn Rd.	(770) 834-9393	1.7	4	132	28R/28A, 48R/48A			\$920 / 975 SF		\$1,496 / 1,442 SF
13 River's Edge	227 Brumbelow Rd.	(770) 836-1774	1.5	5	48	4BR/4BA					\$1,336 / n/a
14 South Ridge Apartments	705 South St.	(770) 834-6240	0.6	2	50	2BR/1.5A			\$560 / 1,050 SF		
15 The Grove	919 Lovvorn Rd.	(770) 830-7881	1.2	2	162	4BR/4BA					
16 University Lofts	780 Lovvorn Rd.	(770) 830-0010	1.0	3	76	4BR/4BA					\$1,540 / 1,360 SF
17 Waverly Apartments	103 Waverly Way	(770) 836-0559	3.4	7	80	Studio, 1BR/1BA, 2BR/1BA					
18 Westbury Park	124 Williams St.	(770) 836-0559	2.1	4	16	28R/1.58A					
19 West Ridge Villas	230 West Ave.	(770) 836-0059	2.0	5	7	2BR/2.5BA, 3BR/2.5BA					
20 Woodglen	114 Danny Dr.	(770) 832-0403	3.9	8	188	2BR/1BA, 2BR/1.5BA, 2BR/2BA			\$535 / 900 SF		





What Can Be Predicted?

- Product & Market Segment Specific Capture Rates
- Patron Flow by Day-part and Activity
- The Impact on Behavior (sales & use) from changes in Market Conditions
- The Approval Rate for a Student Referendum

Predictive Analytics & Predictive Modeling













B&D's TARGET MARKET METHODOLOGY

Purpose: To filter raw survey responses to ensure that the resulting projections represent only those students with a high probability of living on campus based on their current situation, both demographically and financially.

TARGET MARKET DEFINED

- Full-Time Students On-Campus Residents
- Single
- Traditionally-Aged Renters (> \$500/month)

OR

Students	Dormitories	Suites	Apartments	Total
Freshmen				
Sophomores				
Juniors				
Seniors				
Grads / Profs				
Total Demand				
Total Supply				
Differential				

Demand Allocation Strategy - SAV #1

Class	Total	First Filter	Second Filter	Trad'l Beds	Suite	Single Apts.	Fam. Apts.
Freshmen	4,474	3,003	1,473	1st	Excl'd	Excl'd	Special
Sophomores	3,788	2,317	1,203	2nd	1st	1st	Special
Juniors	3,639	2,423	1,214	2nd	1st	1st	Special
Seniors	5,325	3,381	1,800	2nd	1st	1st	Special
Grads / Profs	2,824	1,956	1,383	2nd	1st	1st	Special
Total	20,050	13,080	7,073				

Target Market Demand

Students	Traditional	Suites	Single Apts.	Fam. Apts.	Total
Freshmen	2,619	0	0	70	2,689
Sophomores	247	345	440	166	1,198
Juniors	208	278	406	145	1,037
Seniors	138	398	719	262	1,517
Grads / Profs	132	131	342	452	1,057
Total Demand	3,344	1,152	1,907	1,095	7,498
Total Supply	3,736	207	75	427	4,445
Differential	392	(945)	(1,832)	(668)	(3 <i>,</i> 053)

Demand Allocation Strategy - SAV #2

Class	Total	First Filter	Second Filter	Trad'l Beds	Suite	Single Apts.	Fam. Apts.
Freshmen	4,474	3,803	3,803	1st	Excl'd	Excl'd	Special
Sophomores	3,788	2,317	1,203	2nd	1st	1st	Special
Juniors	3,639	2,423	1,214	2nd	1st	1st	Special
Seniors	5,325	3,381	1,800	2nd	1st	1st	Special
Grads / Profs	2,824	1,956	1,383	2nd	1st	1st	Special
Total	20,050	13,880	9,403				

Target Market Demand – SAV #2

Students	Traditional	Suites	Single Apt	s. Fam. Apts	. Total
Freshmen	3,803	0	0	70	2,689
Sophomores	247	345	440	166	1,198
Juniors	208	278	406	145	1,037
Seniors	138	398	719	262	1,517
Grads / Profs	132	131	342	452	1,057
Total Demand	l 4,528	1,152	1,907	1,095	8,682
Current Suppl	y 3,736	207	75	427	4,445
Differential	(792)	(945)	(1,832)	(668)	(4,237)
2010 Supply	4,500	720	1,470	300	6,990
Differential	(28)	(432)	(437)	(795)	(1,692)

BRAILSFORD & DUNLAVEY

Classification	Traditional	Junior Suite	Full Suite	Apartment	Total
Freshmen	291	408	468	1,955	3,122
Sophomores	138	166	281	1,429	2,014
Juniors	36	172	182	599	989
Seniors	65	118	88	327	599
Graduate	1	19	37	95	153
Gross Demand	533	883	1,056	4,405	6,877
OCR	1.10	1.15	1.15	1.40	
OCR Adjusted Demand	485	768	918	3,021	5,192
Inventory As of 2012	0	0	145	2,948	3,093
Net Demand (Surplus)	485	768	773	73	2,099

15,000 Student Enrollment Demand Projections (Date: TBD)

Academic Year (fall year)	2012	2013	2014	2015	2016
Residence Hall					
Bowdon	On-line	Under Reno./Constr.	Renovated	Renovated	Renovated
Boykin	Off-line	Off-line	Off-line	Off-line	Off-line
Downs	Off-line	Off-line	Off-line	Off-line	Off-line
Gunn	On-line	On-line	Under Reno./Constr.	Renovated	Renovated
Strozier Annex	On-line	On-line	On-line	On-line	On-line
Watson	On-line	On-line	On-line	Off-line	Off-line
Tyus	On-line	On-line	On-line	On-line	Under Reno./Constr.
University Suites	On-line	On-line	On-line	On-line	On-line
Arbor View Apartments	On-line	On-line	On-line	On-line	On-line
New Semi Suites @ US	New Housing	New Housing	New Housing	New Housing	New Housing
New Semi Suites @ B/D	Under Reno./Constr.	New Housing	New Housing	New Housing	New Housing
Existing Residence Hall GSF	553,684	494,887	456,971	399,935	348,816
New/Renovated Residence Hall GSF	135,000	238,500	297,297	335,213	335,213
Total Residence Hall GSF	688,684	733,387	754,268	735,148	684,029
Existing Residence Hall Beds	2,322	2,013	1,867	1,569	1,378
New/Renovated Residence Hall Beds	600	1,060	1,369	1,515	1,515

	0	1	2	3	4	5	6	7	8	9	10
Academic Year (fall year)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Bed Supply (including RA's)	2,787	2,787	2,922	3,073	3,236	3,084	2,893	3,084	3,084	3,084	3,084
Total Gross Square Footage	653,970	653,970	688,684	733,387	754,268	792,184	741,065	792,184	792,184	792,184	792,184
Revenue											
Student Room Revenue	\$10,252,000	\$10,663,000	\$12,329,000	\$13,760,000	\$15,232,000	\$15,320,000	\$15,081,000	\$16,672,000	\$17,341,000	\$18,034,000	\$18,756,000
Social Fee	\$56,000	\$57,000	\$62,000	\$67,000	\$72,000	\$71,000	\$69,000	\$75,000	\$78,000	\$80,000	\$82,000
Room Deposit (per bed)	\$496,000	\$511,000	\$567,000	\$612,000	\$677,000	\$667,000	\$648,000	\$711,000	\$732,000	\$752,000	\$776,000
Misc. Revenue & Conferences	\$414,000	\$426,000	\$439,000	\$452,000	\$466,000	\$480,000	\$494,000	\$509,000	\$524,000	\$540,000	\$556,000
Total Revenue	\$11,218,000	\$11,657,000	\$13,397,000	\$14,891,000	\$16,447,000	\$16,538,000	\$16,292,000	\$17,967,000	\$18,675,000	\$19,406,000	\$20,170,000
Expense											
Personnel											
Personal Service	\$1,191,000	\$1,225,000	\$1,070,000	\$984,000	\$1,056,000	\$1,169,000	\$1,092,000	\$1,240,000	\$1,278,000	\$1,315,000	\$1,356,000
Fringe Benefit	\$200,000	\$206,000	\$440,000	\$639,000	\$667,000	\$698,000	\$701,000	\$741,000	\$764,000	\$788,000	\$810,000
Travel	\$11,000	\$11,000	\$53,000	\$88,000	\$90,000	\$95,000	\$98,000	\$102,000	\$104,000	\$107,000	\$109,000
Operating Expense											
Operating	\$2,086,000	\$2,148,000	\$1,873,000	\$1,724,000	\$1,852,000	\$2,047,000	\$1,914,000	\$2,173,000	\$2,237,000	\$2,305,000	\$2,373,000
Operating (R&M)	\$174,000	\$178,000	\$613,000	\$976,000	\$1,012,000	\$1,053,000	\$1,068,000	\$1,117,000	\$1,150,000	\$1,185,000	\$1,221,000
University Offset											
PS Offset	\$1,650,000	\$1,650,000	\$1,397,000	\$1,249,000	\$1,301,000	\$1,397,000	\$1,268,000	\$1,397,000	\$1,397,000	\$1,397,000	\$1,397,000
AE Offset	\$21,000	\$21,000	\$358,000	\$617,000	\$618,000	\$621,000	\$619,000	\$621,000	\$621,000	\$621,000	\$623,000
Travel Offset	\$1,000	\$1,000	\$5,000	\$8,000	\$9,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000
Total Expanse	\$1,314,000	\$1,353,000	\$1,101,000	\$1,000,000	\$7,774,000	\$1,291,000	\$1,207,000	\$1,370,000	\$9,972,000	\$1,453,000	\$1,496,000
Total Expense	\$0,040,000	30,793,000	\$6,330,000	\$1,311,000	\$1,114,000	\$6,362,000	\$1,310,000	\$6,112,000	\$6,975,000	\$9,162,000	\$9,396,000
Net Operating Income	\$4,570,000	\$4,864,000	\$6,407,000	\$7,520,000	\$8,673,000	\$8,156,000	\$8,314,000	\$9,195,000	\$9,702,000	\$10,224,000	\$10,774,000
Academic Year (fall year)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Debt Service											
Existing Debt Service	\$3,354,921	\$3,443,167	\$3,451,731	\$3,475,046	\$3,480,746	\$3,541,372	\$3,571,883	\$3,607,055	\$3,643,722	\$3,661,800	\$3,700,298
Additional Rents	\$462,000	\$477,000	\$504,000	\$534,000	\$590,000	\$589,000	\$617,000	\$648,000	\$674,000	\$708,000	\$738,000
New Debt Service	\$0	\$0	\$1,417,000	\$2,536,000	\$2,536,000	\$3,531,000	\$4,135,000	\$4,135,000	\$4,135,000	\$4,135,000	\$4,135,000
Total Debt Service	\$3,816,921	\$3,920,167	\$5,372,731	\$6,545,046	\$6,606,746	\$7,661,372	\$8,323,883	\$8,390,055	\$8,452,722	\$8,504,800	\$8,573,298
Debt Coverage Ratio	1.20	1.24	1.19	1.15	1.31	1.06	1.00	1.10	1.15	1.20	1.26
Academic Year (fall year)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Reserves											
Reserves/Depreciation	\$326,000	\$326,000	\$230,000	\$166,000	\$200,000	\$169,000	\$129,000	\$169,000	\$169,000	\$169,000	\$169,000
New Hall Reserves	\$0	\$0	\$0	\$0	\$0	S 0	\$0	\$0	\$0	\$0	\$0
Total Reserves	\$326,000	\$326,000	\$230,000	\$166,000	\$200,000	\$169,000	\$129,000	\$169,000	\$169,000	\$169,000	\$169,000
Cumulative Reserves	\$326,000	\$652,000	\$882,000	\$1,048,000	\$1,248,000	\$1,417,000	\$1,546,000	\$1,715,000	\$1,884,000	\$2,053,000	\$2,222,000
Academic Year (fall year)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Cash Flow											
Total Cash Flow	\$427,079	\$617,833	\$804,269	\$808,954	\$1,866,254	\$325,628	-\$138,883	\$635,945	\$1,080,278	\$1,550,200	\$2,031,702
Cumulative Cash Flow	\$427,079	\$1,044,912	\$1,849,181	\$2,658,135	\$4,524,389	\$4,850,017	\$4,711,134	\$5,347,079	\$6,427,357	\$7,977,557	\$10,009,259

Office of Real Estate and Facilities

Demand-Based Programming (DBP)

* Factors

- >Type of Activity => Unit Category
- > Activity Duration => Patron Turnover per Period
- > Time / Frequency From Survey Data

* Products

- Projected Demand Number of Users by Time of Day
- > Projected Demand Facility Size Based on Patron Flow

How many times/week

How many workouts/time window

ACTIVITY: 1	FREE WEIGHTS			Activity Duration:	0.7	5 Hours
Frequency	Period	Activity Frequency	Turnover Factor	Intensity Factor	Number of Users	Demand Projection
Daily	Before 6 AM	0.71	0.75	0.53	126	67
Daily	6-8 AM	0.71	0.30	0.27	126	34
Daily	8 AM - noon	0.71	0.19	0.13	126	17
Daily	Noon - 1 PM	0.71	0.75	0.53	0	0
Daily	1- 4 PM	0.71	0.25	0.18	253	45
Daily	4 - 6 PM	0.71	0.38	0.27	506	135
Daily	6-9 PM	0.71	0.25	0.18	379	67
Daily	9 PM - Midnight	0.71	0.25	0.18	253	45
Daily	After Midnight	0.71	0.75	0.32	126	41
Daily	Not Sure	0.71	0.00	0.00	253	0
2-4 Times/Week	Before 6 AM	0.43	0.75	0.32	0	0
2-4 Times/Week	6-8 AM	0.43	0.38	0.16	1,644	265
2-4 Times/Week	8 AM - noon	0.43	0.19	0.08	3,161	255
2-4 Times/Week	Noon - 1 PM	0.43	0.75	0.32	759	245
2-4 Times/Week	1- 4 PM	0.43	0.25	0.11	3,414	367
2-4 Times/Week	4-6 PM	0.43	0.38	0.16	3,414	550
2-4 Times/Week	6-9 PM	0.43	0.25	0.11	3,540	381
2-4 Times/Week	9 PM - Midnight	0.43	0.25	0.11	1,770	190
2-4 Times/Week	After Midnight	0.43	0.75	0.32	126	41
2-4 Times/Week	Not Sure	0.43	0.00	0.00	3,414	0

TOTAL NUMBER OF USERS PROJECTED PER PERIOD*: 8 AM - noon Noon - 1 PM 1-4 PM 4 - 6 PM 6-9 PM Before 6 AM 6-8 AM 50 232 207 325 557 382 . A 196 **Overlap** NUMBER OF SQ. FT. ** SPACE DEMAND AM - noon 6 - 8 AM Before 6 AM Noon - 1 PM 1-4 PM 4 - 6 PM 6 - 9 PM **Discount** 2.080 9,580 8,550 8,070 13,420 22,990 15,740

Number of Users

Square Footage Needed

OF BRAILSFORD & DUNLAVEY

Office of Real Estate and Facilities "Creating A More Educated Georgia"

New Year's

Resolution

Discount

	Activity	Depth	Breadth
1	Cardiovascular fitness machines (treadmills, cycles, and elliptical machines)	57.7%	82.1%
2	Free weights	46.0%	72.6%
3	Weight resistance machines	43.5%	73.9%
4	Indoor jog or walk	26.6%	54.2%
5	Group Ex (aerobics, dance, spinning, step, yoga, pilates)	22.6%	51.5%
6	Lap swimming	13.7%	45.0%
7	Recreational swimming	9.5%	38.6%
8	Martial arts	8.7%	25.6%
9	Water exercise (aerobics, strength training, cardiovascular training, rehabilitation)	8.5%	25.6%
10	Basketball	8.0%	28.4%
11	Rock climbing wall	7.5%	40.0%
12	Indoor tennis	6.7%	26.1%
13	Badminton	5.7%	23.1%
14	Indoor soccer	4.7%	17.7%
15	Volleyball	4.7%	24.1%
16	Racquetball	4.2%	30.3%
17	Roller or floor hockey	2.5%	15.7%
18	Handball	1.2%	9.0%
19	Squash	1.2%	9.5%

Depth = Student Responses Who Will Use the Facility At Least Two Times a Week

<u>Thus, Activity is</u> <u>Critical to Their Life</u> <u>Styles</u>

	Activity	Depth	Breadth
1	Cardiovascular fitness machines (treadmills, cycles, and elliptical machines)	57.7%	82.1%
2	Free weights	46.0%	72.6%
3	Weight resistance machines	43.5%	73.9%
4	Indoor jog or walk	26.6%	54.2%
5	Group Ex (aerobics, dance, spinning, step, yoga, pilates)	22.6%	51.5%
6	Lap swimming	13.7%	45.0%
7	Recreational swimming	9.5%	38.6%
8	Martial arts	8.7%	25.6%
9	Water exercise (aerobics, strength training, cardiovascular training, rehabilitation)	8.5%	25.6%
10	Basketball	8.0%	28.4%
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14	Indoor soccer	4.7%	17.7%
15	Volleyball	4.7%	24.1%
16	Racquetball	4.2%	30.3%
17	Roller or floor hockey	2.5%	15.7%
18	Handball	1.2%	9.0%
19	Squash	1.2%	9.5%

Breadth = Student Responses Who Will Use the Facility at Least Sometimes

<u>Thus, Activity is</u> <u>Important to</u> <u>Campus Life</u>

	Activity	Depth	Breadth	DB Ratio	
1	Cardiovascular fitness machines (treadmills, cycles, and elliptical machines)	57.7%	82.1%	1.4	
2	Free weights	46.0%	72.6%	1.6	
3	Weight resistance machines	43.5%	73.9%	1.7	1st Priority
4	Indoor jog or walk	26.6%	54.2%	2.0	,
5	Group Ex (aerobics, dance, spinning, step, yoga, pilates)	22.6%	51.5%	2.3	
6	Lap swimming	13.7%	45.0%	3.3	
7	Recreational swimming	9.5%	38.6%	4.1	2nd Priority
8	Martial arts	8.7%	25.6%	2.9	211011101109
9	Water exercise (aerobics, strength training, cardiovascular training, rehabilitation)	8.5%	25.6%	3.0	
10	Basketball	8.0%	28.4%	3.6	
11	Rock climbing wall	7.5%	40.0%	5.4	3rd Priority
12	Indoor tennis	6.7%	26.1%	3.9	
13	Badminton	5.7%	23.1%	4.0	
14	Indoor soccer	4.7%	17.7%	3.7	4th Priority
15	Volleyball	4.7%	24.1%	5.1	
16	Racquetball	4.2%	30.3%	7.2	
17	Roller or floor hockey	2.5%	15.7%	6.3	
18	Handball	1.2%	9.0%	7.2	5th Priority
19	Squash	1.2%	9.5%		

		Peak			Space	Peak	Spa	ace Allocat	ion
Activity		Accommodation			Туре	Demand	Based on Prioritization of Demand		of Demand
Cardiovascular fitness machines (treadmills,	75%	to	85%		Sq. Ft.	16,830	12,600	to	14,300
Free weights	75%	to	85%		Sq. Ft.	22,990	17,200	to	19,500
Weight resistance machines	75%	to	85%		Sq. Ft.	19,730	14,800	to	16,800
Indoor jog or walk	75%	to	85%		Sq. Ft.	15,930	11,900	to	13,500
Group Ex (aerobics, dance, spinning, step, y	75%	to	85%		Sq. Ft.	23,920	17,900	to	20,300
Lap swimming	55%	to	65%		Lanes	45	25	to	29
Recreational swimming	55%	to	65%		Sq. Ft.	14,510	8,000	to	9,400
Martial arts	55%	to	65%		Sq. Ft.	14,570	8,000	to	9,500
Water exercise (aerobics, strength training,	55%	to	65%		Sq. Ft.	9,550	5,300	to	6,200
Basketball	40%	to	50%		Courts	17	7	to	9
Rock climbing wall	40%	to	50%		Ln. Ft.	82	33	to	41
Indoor tennis	40%	to	50%		Courts	66	26	to	33
Badminton	25%	to	35%		Courts	41	10	to	14
Indoor soccer	25%	to	35%		Courts	10	3	to	4
Volleyball	25%	to	35%		Courts	10	3	to	4
Racquetball	25%	to	35%		Courts	24	6	to	8
Roller or floor hockey	10%	to	20%		Courts	7	1	to	1
Handball	10%	to	20%		Courts	11	1	to	2
Squash	10%	to	20%		Courts	14	1	to	3
COMBINED 1:					Sq. Ft.	59,550	44,600	to	50,600
(Fitness Machines, Free Weights and Weight					15.4	*	2		20
COMBINED 2					Sq. Ft.	38,490	25,900	to	29,800
(Group Ex, Martial Arts)							in a constrained of the offs. The		Land and a second
	Activity Cardiovascular fitness machines (treadmills, Free weights Weight resistance machines Indoor jog or walk Group Ex (aerobics, dance, spinning, step, y Lap swimming Recreational swimming Martial arts Water exercise (aerobics, strength training, o Basketball Rock climbing wall Indoor tennis Badminton Indoor soccer Volleyball Racquetball Roller or floor hockey Handball Squash COMBINED 1: (Fitness Machines, Free Weights and Weight COMBINED 2 (Group Ex, Martial Arts)	ActivityAccoCardiovascular fitness machines (treadmills, Free weights75%Weight resistance machines75%Indoor jog or walk75%Group Ex (aerobics, dance, spinning, step, y75%Lap swimming55%Recreational swimming55%Martial arts55%Water exercise (aerobics, strength training, step, y55%Basketball40%Indoor tennis40%Badminton25%Indoor soccer25%Volleyball25%Racquetball10%Handball10%Squash10%COMBINED 1: (Fitness Machines, Free Weights and Weight COMBINED 2 (Group Ex, Martial Arts)	ActivityPeak AccommodCardiovascular fitness machines (treadmills, Free weights75%toFree weights75%toWeight resistance machines75%toIndoor jog or walk75%toGroup Ex (aerobics, dance, spinning, step, y75%toLap swimming55%toRecreational swimming55%toMartial arts55%toWater exercise (aerobics, strength training, of55%toBasketball40%toIndoor tennis40%toBadminton25%toIndoor soccer25%toVolleyball25%toRacquetball10%toHandball10%toSquash10%toCOMBINED 1: (Fitness Machines, Free Weights and Weight COMBINED 2 (Group Ex, Martial Arts)Free Weights and Weight	PeakActivityAccommodationCardiovascular fitness machines (treadmills, Free weights75%to85%Free weights75%to85%Weight resistance machines75%to85%Indoor jog or walk75%to85%Group Ex (aerobics, dance, spinning, step, y75%to85%Lap swimming55%to65%Recreational swimming55%to65%Martial arts55%to65%Water exercise (aerobics, strength training, of55%to65%Basketball40%to50%Indoor tennis40%to50%Badminton25%to35%Indoor soccer25%to35%Volleyball25%to35%Racquetball10%to20%Handball10%to20%Handball10%to20%Group Ex, Martial Arts)55%to35%	ActivityPeak AccommodationCardiovascular fitness machines (treadmills, Free weights75%to85%Free weights75%to85%Weight resistance machines75%to85%Indoor jog or walk75%to85%Group Ex (aerobics, dance, spinning, step, y Lap swimming75%to85%Recreational swimming55%to65%Martial arts55%to65%Water exercise (aerobics, strength training, Basketball55%to65%Rock climbing wall40%to50%Indoor tennis40%to50%Indoor soccer25%to35%Volleyball25%to35%Racquetball10%to20%Handball10%to20%Squash10%to20%	ActivityPeakSpaceCardiovascular fitness machines (treadmills Free weights75% to85%Sq. Ft.Free weights75% to85%Sq. Ft.Weight resistance machines75% to85%Sq. Ft.Indoor jog or walk75% to85%Sq. Ft.Group Ex (aerobics, dance, spinning, step, y75% to85%Sq. Ft.Lap swimming55% to65%Sq. Ft.Martial arts55% to65%Sq. Ft.Water exercise (aerobics, strength training, of55% to65%Sq. Ft.Basketball40% to50%CourtsRock climbing wall40% to50%CourtsIndoor soccer25% to35%CourtsVolleyball25% to35%CourtsRaquetball25% to35%CourtsRoller or floor hockey10% to20%CourtsHandball10% to20%CourtsSquash10% to20%Courts	ActivityPeak AccommodationSpace TypePeak DemandCardiovascular fitness machines (treadmills Free weights75% to65%Sq. Ft.16,830Free weights75% to85%Sq. Ft.19,730Indoor jog or walk75% to85%Sq. Ft.19,730Group Ex (aerobics, dance, spinning, step, y Lap swimming75% to65%Sq. Ft.15,930Group Ex (aerobics, dance, spinning, step, y Lap swimming55% to65%Sq. Ft.14,510Martial arts55% to65%Sq. Ft.14,510Water exercise (aerobics, strength training, c55% to65%Sq. Ft.14,570Basketball40% to50%Courts17Rock climbing wall Indoor soccer40% to50%Courts41Indoor soccer25% to35%Courts10Volleyball25% to35%Courts10Racquetball Roller or floor hockey10% to20%Courts11Squash10% to20%Courts11COMBINED 1: (Fitness Machines, Free Weights and Weight COMBINED 2 (Group Ex, Martial Arts)Sq. Ft.38,490	Activity Peak Accommodation Space Type Peak Demand Space Based on P Cardiovascular fitness machines (treadmills Free weights 75% to 75% to 10000 jog or walk 75% to 75% to 10000 jog or walk Sq. Ft. 16,830 12,600 Indoor jog or walk 75% to 10000 jog or walk 75% to 75% to 10000 jog or walk Sq. Ft. 19,730 14,800 Group Ex (aerobics, dance, spinning, step, y Lap swimming 75% to 55% to 55% to 105% Sq. Ft. 23,920 17,900 Martial arts 55% to 65% Sq. Ft. 14,510 8,000 Martial arts 55% to 65% Sq. Ft. 14,570 8,000 Water exercise (aerobics, strength training, Basketball 40% to 50% Courts 17 7 Rock climbing wall 40% to 50% 50% Courts 17 7 Rock climbing wall 40% to 50% 50% Courts 66 26 Badminton 25% to 35% 35% Courts 10 3 Volleyball 25% to 35% 25% Courts 10 3 Nolleyball <	ActivityPeak AccommodationSpace TypePeak DemandSpace Allocat Based on PrioritizationCardiovascular fitness machines (treadmills Free weights75% to 75% to to 85%Sq. Ft.16,83012,600toWeight resistance machines75% to 85%85%Sq. Ft. 19,73014,800to to to to to to to to to to to to group Ex (aerobics, dance, spinning, step, y tap swimming75% to to 85%85%Sq. Ft. to

If basketball is elevated from third to second priority, need jumps to 9 – 11 courts!

Developing Judgment Capacities

Schools included in comparison Group

- » Indiana
- » Illinois
- » Iowa
- » Michigan
- » Ohio State

Depth Comparison

Source Data

			Minnesota
High	Low	Average	Depth
59.7%	40.1%	51.4%	57.7%
48.7%	34.9%	43.9%	46.0%
59.2%	40.8%	47.8%	43.5%
37.8%	20.2%	27.1%	26.6%
23.4%	17.3%	21.3%	22.6%
16.7%	12.0%	13.6%	13.7%
18.2%	5.6%	11.0%	9.5%
8.7%	4.6%	6.6%	8.7%
8.9%	3.6%	6.1%	8.5%
13.7%	7.7%	10.6%	8.0%
15.2%	4.0%	9.9%	7.5%
9.5%	4.3%	6.7%	6.7%
5.7%	2.6%	3.5%	5.7%
6.5%	3.5%	5.2%	4.7%
7.8%	4.4%	5.2%	4.7%
7.4%	3.9%	6.1%	4.2%
10.1%	1.9%	4.1%	2.5%
2.0%	0.4%	1.2%	1.2%

Breadth Comparison

Source Data

			Minnesota
High	Low	Average	Breadth
82.1%	63.5%	77.0%	82.1%
82.6%	62.8%	74.3%	73.9%
77.9%	59.8%	70.1%	72.6%
70.8%	39.7%	53.6%	54.2%
54.5%	37.2%	48.3%	51.5%
50.9%	29.0%	40.2%	45.0%
57.0%	18.1%	38.9%	40.0%
67.3%	22.2%	42.7%	38.6%
40.9%	19.9%	31.7%	30.3%
49.4%	28.4%	36.0%	28.4%
31.5%	14.6%	25.0%	26.1%
25.6%	10.9%	19.0%	25.6%
30.9%	8.4%	21.6%	25.6%
35.7%	17.5%	25.9%	24.1%
23.1%	6.4%	15.7%	23.1%
25.8%	9.4%	18.8%	17.7%
43.2%	6.2%	18.5%	15.7%
10.4%	3.1%	7.6%	9.5%

Ratio Analysis

		Minne	sota	
High	Low	Average	Total	Ratio
1.8	1.3	1.5	139.8%	1.4
1.7	1.4	1.6	117.4%	1.7
1.8	1.4	1.6	118.6%	1.6
2.4	1.7	2.0	80.8%	2.0
2.4	2.0	2.3	74.1%	2.3
3.4	2.3	3.0	58.7%	3.3
5.4	2.4	3.5	34.1%	3.0
3.2	2.4	2.8	34.3%	2.9
4.7	3.3	4.0	48.1%	4.1
7.2	3.8	5.3	34.5%	7.2
5.9	2.5	4.5	28.8%	4.0
5.4	3.2	4.1	47.5%	5.4
4.7	2.6	3.5	36.4%	3.6
4.2	3.2	3.7	32.8%	3.9
4.5	2.7	3.6	22.4%	3.7
6.8	3.9	5.0	28.8%	5.1
6.3	3.2	4.5	18.2%	6.3
8.8	3.9	6.8	10.7%	7.6

Some Quick Rules of Thumb

- » 8.5 to 10.5 Gross Square Feet Per Student
 - Small Residential Campuses Are Higher
 - Large, Urban Non-traditional Campuses Are Lower
- » Add 1 to 1.5 Gross Square Feet Per Employee
- » Add 5 to 7.5 Gross Square Feet Per Alumni / Community Member
- » Add for Non-redundant Academic & Athletic Spaces
- » Subtract Usable Existing Spaces but Consider Sport Clubs & Efficiency of Existing Space

Some Quick Rules of Thumb

8.5 to 10.5 Gross Square Feet Per Student

Projected Enrollment Growth

Residential / Commuter Mix

Unique Cultural Considerations

Q & A

Graph C Median Sq. Ft. per Bed

Abramson, Paul. "Living on Campus " 2010 College Housing Report. May 2010 www.webCPM.com.

Office of Real Estate and Facilities

Q & A

