

Presentation Overview



Central Michigan University

Utilization and Space Needs Analysis Study Draft Report Findings

PAULIEN & ASSOCIATES, INC.



Planning Consultants for Institutions of Higher Education

- Established in 1979
- National and International Experience
- Studies completed for over 550 campuses in 47 states, District of Columbia, and internationally
- Varied Expertise of Planning Staff:
 - *Utilization Studies*
 - *Space Needs Analysis*
 - *Environmental Scans*
 - *Educational Planning*
 - *Benchmarking*
 - *Architectural Programming*
 - *Construction Administration*
 - *Education Administration*
 - *Regular Presenters at SCUP*

Study Overview:

- ❑ July 2012 – Project Kick-off
- ❑ August/September- Data gathered, information compiled, building floor plans provided
- ❑ October -On-site Observations
- ❑ November- On-site meetings with campus leaders and College Deans, Vice Presidents, Directors, Managers
- ❑ December - Presented draft findings and conducted working sessions
- ❑ January 2013 – Work session follow-up and additional reviews
- ❑ Draft Report of Findings submitted end of January 2013

We use our analytical skills to help Colleges and Universities make good decisions about how best to use their resources . . .”



National Use of Facilities Standard

Postsecondary Education Facilities Inventory and Classification Manual

- National standards for definitions and parameters for describing & coding space
- Supports institutional facilities data
- First published in 1973
- Updated in 1992 & **2006** by NCES
- Widely used by institutions of higher education
- Quantitative and not qualitative



National Use of Guidelines



Guidelines for Utilization and Space Needs Analysis

- Space Utilization Guidelines of the State of Michigan Major Project Design Manual Appendix Three dated Oct. 2008
- Most widely used national state guidelines for Classroom and Teaching Laboratory Utilization
- Bereither and Schillinger planning guidelines
- CEFPI (Council of Educational Facility Planners International) guidelines
- When guidelines are absent or missing, Paulien & Associates data base of applicable guidelines used at other institutions similar in size and mission to Central Michigan University

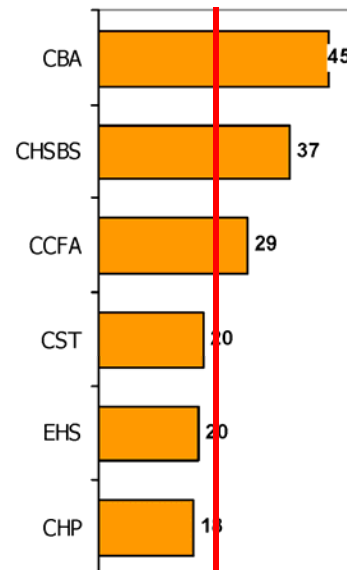
Laboratory Utilization (by College)



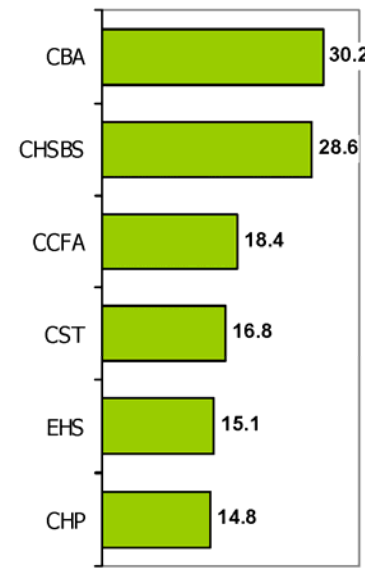
Teaching Laboratory Utilization Analysis by College / Unit Summary

College / Unit	No. of Rooms	No. of Seats	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Hours in Use Student Station Occupancy %
College of Business Administration	3	128	1,363	32	30	30.2	45	67%
College of Communication and Fine Arts	24	801	1,465	53	19	18.4	29	73%
College of Education and Human Services	11	266	1,178	52	18	15.1	20	71%
College of Health Professions	11	260	1,192	58	20	14.8	18	76%
College of Humanities and Social and Behavioral Sciences	7	181	908	35	18	28.6	37	73%
College of Science and Technology	46	1,156	1,313	58	19	16.8	20	85%
<i>Total No. of Rooms = 102</i>	AVERAGE		1,295	54	19	18.3	24	77%

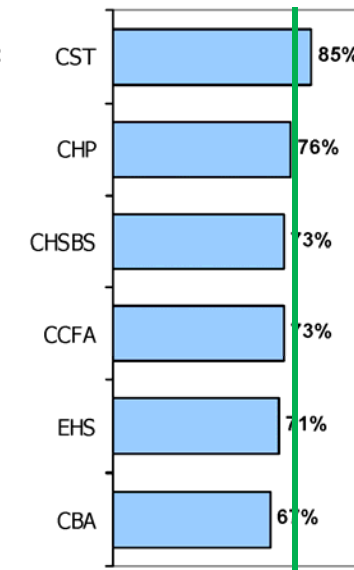
Weekly Room Hours:



Weekly Seat Hours:



Student Station Occupancy:



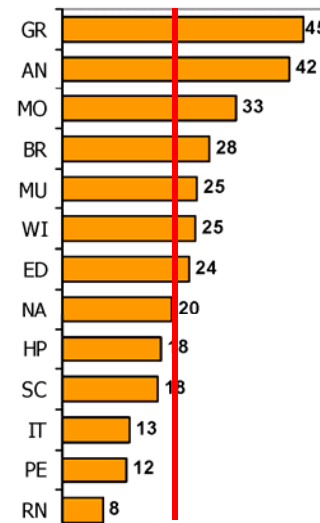
Laboratory Utilization (by building)



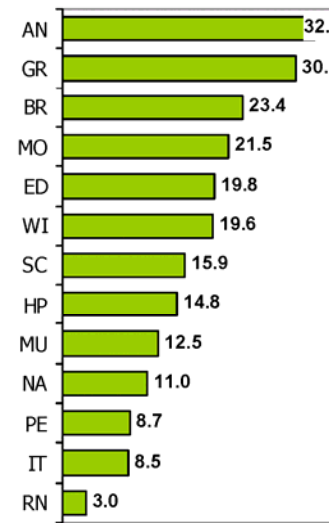
Teaching Laboratory Utilization Analysis by Building Summary

Building Name and Id	No. of Rooms	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Hours in Use Student Station Occupancy %	
Anspach Hall	AN	6	975	38	20	32.7	42	74%
Brooks Hall	BR	19	889	39	19	23.4	28	85%
Dow Hall	SC	16	1,365	61	20	15.9	18	91%
Education and Human Services Building	ED	4	1,338	50	21	19.8	24	74%
Grawn Hall	GR	3	1,363	32	30	30.2	45	67%
Health Professions Building	HP	11	1,192	58	20	14.8	18	76%
Industrial Engineering	IT	5	3,197	152	18	8.5	13	73%
Moore Hall	MO	7	1,022	40	20	21.5	33	74%
Music Building	MU	5	2,318	39	21	12.5	25	49%
North Art Studio	NA	1	3,860	214	9	11.0	20	54%
Pearce Hall	PE	6	947	31	20	8.7	12	69%
Ronan Hall	RN	1	503	20	10	3.0	8	40%
Wightman Hall	WI	18	1,120	53	17	19.6	25	79%
<i>Total No. of Rooms = 102</i>		AVERAGE	1,295	54	19	18.3	24	77%

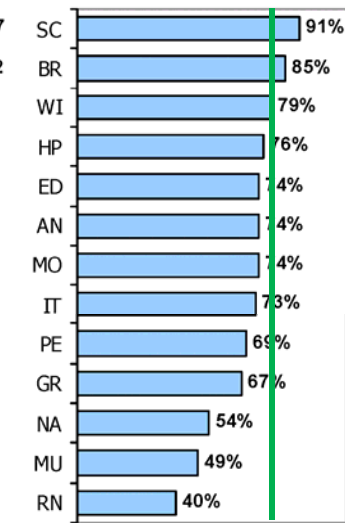
Weekly Room Hours:



Weekly Seat Hours:



Student Station Occupancy:





Space Needs Analysis (campuswide)

Campuswide Space Needs Analysis Central Michigan University

SPACE CATEGORY	2011			
	Existing ASF	Guideline ASF	Surplus/ (Deficit)	Percent Surplus/ (Deficit)
	<i>Student HC = 21,220 Staff HC = 2,564</i>			
Academic Space				
Classroom & Service	188,116	218,918	(30,802)	(16%)
Teaching Laboratories & Service	165,794	172,013	(6,219)	(4%)
Open Laboratories & Service	79,871	84,880	(5,009)	(6%)
Research Laboratories & Service	136,641	210,595	(73,954)	(54%)
Offices & Service	413,052	461,965	(48,913)	(12%)
<i>Academic Space Subtotal</i>	<i>983,474</i>	<i>1,148,371</i>	<i>(164,897)</i>	<i>(17%)</i>
Academic Support Space				
Library	198,367	193,389	4,978	3%
Physical Education & Recreation	187,805	244,510	(56,705)	(30%)
Athletics	286,041	318,300	(32,259)	(11%)
Assembly & Exhibit	86,454	124,771	(38,317)	(44%)
Central Computer	14,035	20,720	(6,685)	(48%)
Physical Plant	91,592	103,157	(11,565)	(13%)
Other Department Space	71,470	84,886	(13,416)	(19%)
<i>Academic Support Space Subtotal</i>	<i>935,764</i>	<i>1,089,733</i>	<i>(153,969)</i>	<i>(16%)</i>
Auxiliary Space				
Student Center	64,865	95,490	(30,625)	(47%)
Residence Life	1,239,569	1,240,218	(649)	0%
Health Care Facilities	26,239	31,830	(5,591)	(21%)
Campus Dining	123,879	129,112	(5,233)	(4%)
<i>Auxiliary Space Subtotal</i>	<i>1,454,552</i>	<i>1,496,650</i>	<i>(42,098)</i>	<i>(3%)</i>
CAMPUS TOTAL	3,373,790	3,734,754	(360,964)	(11%)
<i>Inactive/Conversion Space</i>	<i>19,521</i>			

ASF = Assignable Square Feet



Space Needs Analysis (campuswide): Academic Space

Campuswide Space Needs Analysis Central Michigan University

SPACE CATEGORY	2011			
	Existing ASF	Guideline ASF	Surplus/ (Deficit)	Percent Surplus/ (Deficit)
<i>Student HC = 21,220 Staff HC = 2,564</i>				
Academic Space				
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Thank-you.
We are happy to answer any questions.