













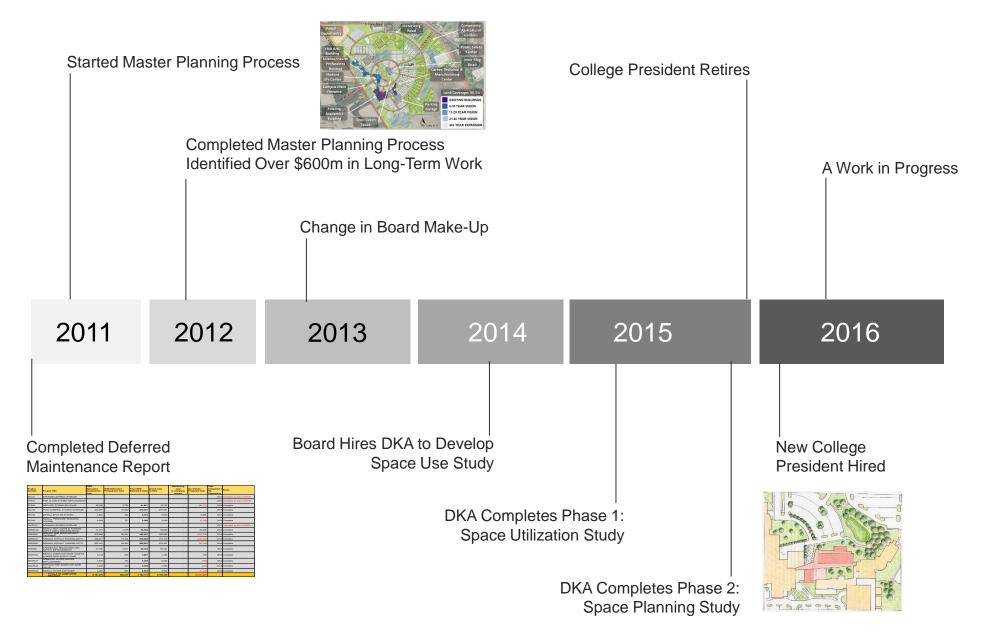


Illinois Community College Chief Financial Officers Spring 2016 Conference April 28, 2016

MAKING A CASE FOR EXPANSION ...IN DIFFICULT TIMES



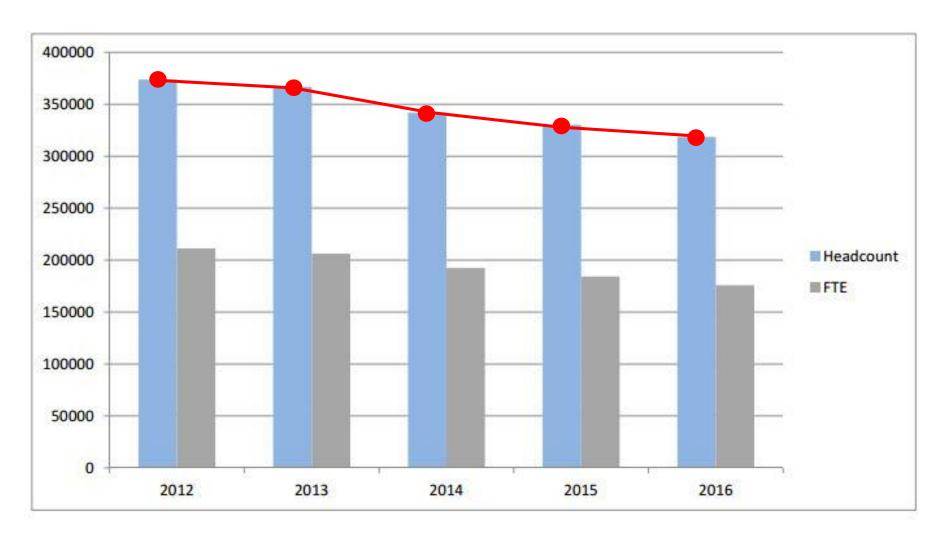
Planning History Over Past Five Years







Enrollment Trends at Illinois Community Colleges



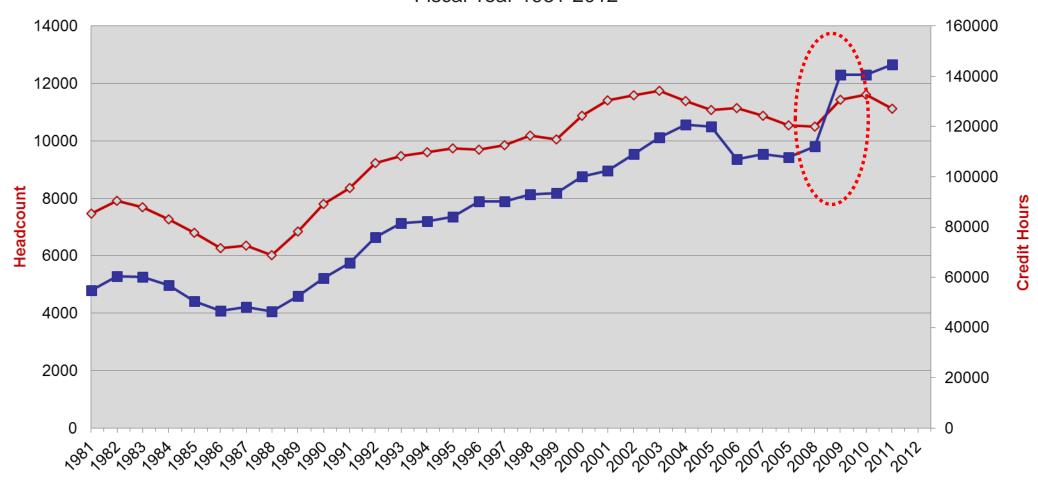
Tuition / Fee Reductions Due to Decreased Credit Hours State Funding "Issues"





Enrollment Trend at MCC

Annual Headcount and Credit Hour Trends Fiscal Year 1981-2012



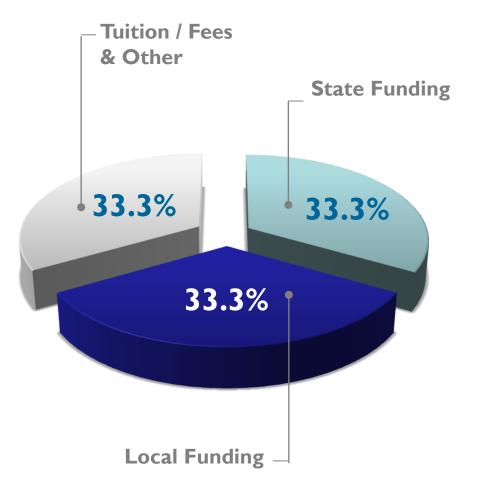




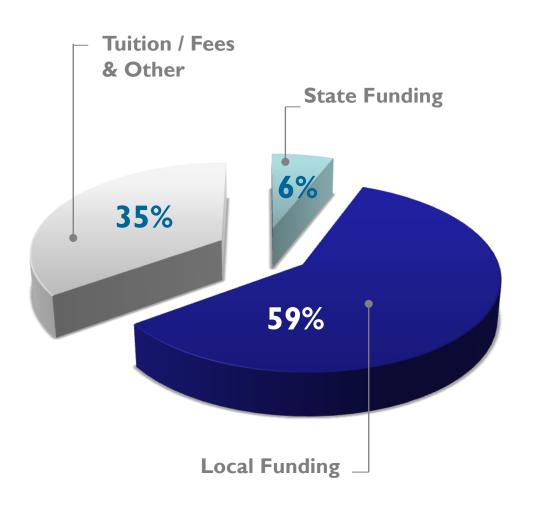


MCC Funding Challenges

Intended Funding Allocation



2013 Funding Allocation







The "Value" of Planning

Master Planning / Programming



Design



Construction Documents



Construction



Occupancy







Process & Framework

Phase | Phase 2 Evaluation of Alignment of Assessment Space Space Needs Planning of Existing Utilization with Program **Opportunities** Physical Study Needs Conditions Repurpose (Quantitative Review) Renovation (Qualitative Review) Addition New





Baseline Data: Understanding Your Facilities



Collection of Room-by-Room Facility Data

- Assignable Square Feet (ASF)
- Student stations
- Space use code

National Taxonomy

Postsecondary Education Facilities Inventory and Classification Manual, 2006 Edition, National Center for Education Statistics

714 Facility Records Processed





Baseline Data: Space Categories & Codes

Gross Square Feet (GSF)

All space within a building's footprint

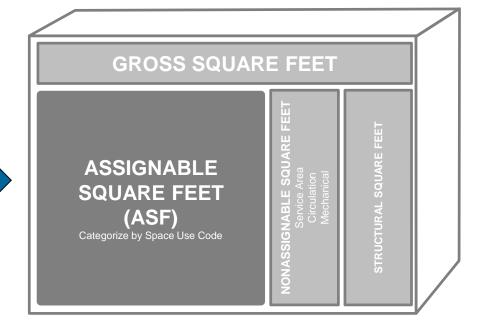
Assignable Square Feet (ASF)

- Usable space assigned to a program
- Measured from inside wall to inside wall
- Excludes public restrooms, elevator area, stairwells, egress corridors, main circulation paths, mechanical / electrical / plumbing spaces, and structural areas

Space Needs Analysis
based on
Assignable Square Feet

Space Use Codes

• Defined per National Center for Education Statistics Postsecondary Education Facilities Inventory and Classification Manual (FICM), 2006.







The "Value" of Benchmarking (?)

College	FTE	NASF	GSF	Grossing Factor	GSF per FTE
Black Hawk	3,635	429,033	568,579	33%	156
Heartland	3,237	315,008	527,693	68%	163
Illinois Central	5,862	814,708	1,188,902	46%	203
Illinois Valley	2,169	259,245	438,439	69%	202
Kankakee	2,104	237,145	343,697	45%	163
Kaskaskia	2,637	304,940	444,547	46%	169
Kishwaukee	2,800	415,834	585,340	41%	209
Lake Land	3,362	385,909	520,369	35%	155
Lewis & Clark	4,087	524,634	842,611	61%	206
Lincoln Land	4,323	422,907	619,078	46%	143
Logan	3,052	439,261	677,451	54%	222
Mc Henry	3,880	273,555	407,424	49%	.105
Morton	2,585	144,074	235,718	64%	91
Oakton	5,670	423,836	612,225	44%	108
Parkland	5,101	524,656	758,953	45%	149
Prairie State	2,812	290,395	432,176	49%	154
Rock Valley	4,940	517,656	854,323	65%	.173.
South Suburban	2,703	349,047	608,107	74%	225
Triton	6,030	611,048	859,558	•41%	143
Waubonsee	5,671	507,997	816,841	61%	144

Average 52% 164

as of June 30, 2014





Baseline Data: Course Fills – Fall 2014

Example	of Course Fi	le for Space Needs Analysis								
DEPT CODE	COURSE ID	COURSE NAME	ROOM ID	ENROLL	CRS CAPACITY	START TIME	END TIME	DAYS	START DATE	END DATE
ANI	ANI 100/001 X	2D ANIMATION	E 103	20	20	11:00:00 AM	1:50:00 PM	TR	8/19/14	12/11/14
DGM	DGM 160/001 X	3D GAME DEVELOPMENT 1	E 112	3	14	6:00:00 PM	8:50:00 PM	TR	8/19/14	12/11/14
DGM	DGM 260/001 X	3D GAME DEVELOPMENT 2	E 112	4	8	6:00:00 PM	8:50:00 PM	TR	8/19/14	12/11/14
ANI	ANI 105/001 L	3D MODELING AND ANIMATION 1	E 112	10	12	2:00:00 PM	4:50:00 PM	TR	8/19/14	12/11/14
ANI	ANI 205/001 L	3D MODELING AND ANIMATION 2	E 112	1	12	2:00:00 PM	4:50:00 PM	TR	8/19/14	12/11/14
MAT	MAT 161/009 L	COLLEGE ALGEBRA	A 242	30	35	8:30:00 AM	9:50:00 AM	MW	8/18/14	12/10/14
MAT	MAT 161/005 L	COLLEGE ALGEBRA	A 205	24	27	2:30:00 PM	3:50:00 PM	MW	8/18/14	12/10/14
MAT	MAT 165/001 L	COLLEGE ALGEBRA AND	A 206	24	30	8:30:00 AM	9:50:00 AM	MW	8/18/14	12/12/14
MAT	MAT 165/001 L	TRIGONOMET	A 206	24	30	8:00:00 AM	9:50:00 AM	F	8/18/14	12/12/14
CDM	CDM 145/001 L	A+ CERT PREP	A 123	5	24	6:00:00 PM	8:50:00 PM	M	8/18/14	12/8/14
PSY	PSY 275/001 L	ABNORMAL PSYCHOLOGY	C 105	25	35	11:30:00 AM	12:50:00 PM	TR	8/19/14	12/11/14
THE	THE 157/001 L	ACTING I - PREPARATION	E 122	13	20	10:00:00 AM	11:20:00 AM	MW	8/18/14	12/10/14
GRA	GRA 100/002 X	ADOBE DESIGN SUITE	E 116	14	24	6:00:00 PM	8:50:00 PM	MW	8/18/14	12/10/14
GRA	GRA 100/001 X	ADOBE DESIGN SUITE	E 112	16	24	11:00:00 AM	1:50:00 PM	MW	8/18/14	12/10/14
IMT	IMT 155/003 L	ADVANCED CNC	D 167	6	12	5:30:00 PM	9:20:00 PM	R	8/21/14	12/11/14
IMT	IMT 155/002 L	ADVANCED CNC	D 167	9	12	5:30:00 PM	9:20:00 PM	W	8/20/14	12/10/14
ART	ART 266/002 X	ADVANCED PAINTING	A 152	2	2	10:00:00 AM	12:50:00 PM	TR	8/19/14	12/11/14
ART	ART 266/001 X	ADVANCED PAINTING	A 152	0	1	1:30:00 PM	4:20:00 PM	MW	8/18/14	12/10/14
HIS	HIS 130/001 L	ANCIENT CIVILIZATION (TO 300CE	C 118	19	32	6:00:00 PM	8:50:00 PM	М	8/18/14	12/8/14
ANI	ANI 103/001 X	ANIMATION TECHNIQUES 1	E 112	7	14	8:00:00 AM	10:50:00 AM	MW	8/18/14	12/10/14
ANI	ANI 203/001 X	ANIMATION TECHNIQUES 2	E 112	2	8	8:00:00 AM	10:50:00 AM	MW	8/18/14	12/10/14
PRG	PRG 105/003 L	APPLIED LOGIC	E 116	19	22	9:00:00 AM	12:50:00 PM	F	8/15/14	12/5/14

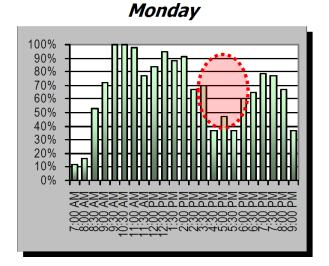
4,596 Course Records Processed

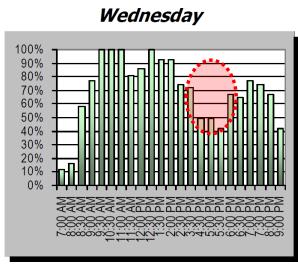


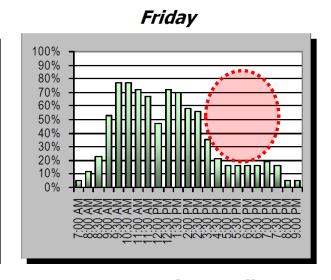


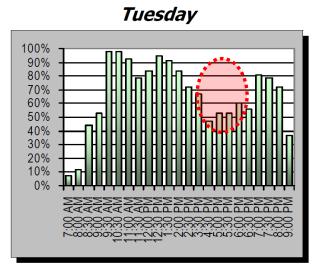
Classroom Use by Day & Hour – All Activities – Fall 2014

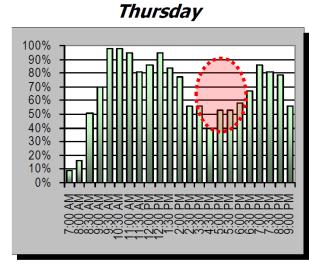
Percent of Classrooms In Use

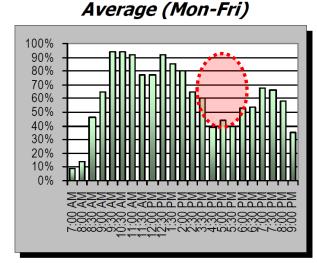












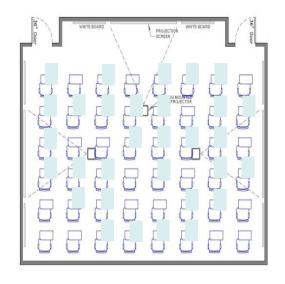
Based on 4,596 credit, noncredit courses and events

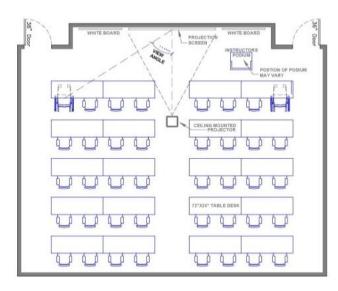




Utilization Drilldown

	MON	TUE	WED	THU	FRI	SAT
7:00 AM						
8:00 AM						
9:00 AM						
10:00 AM						
11:00 AM						
12:00 PM						
1:00 PM						
2:00 PM						
3:00 PM						
4:00 PM						
5:00 PM						
6:00 PM						
7:00 PM						
8:00 PM						
9:00 PM						
10:00 PM						





Weekly Room Hours (WRH)

The average number of hours per week a room is scheduled over a term or semester

Student Station Occupancy (SSO)

The average percent of seats filled when a room is occupied during scheduled use.

ASF Per Station

The amount of space per student station. A 960 ASF classroom with 40 stations = 24 ASF/Station





Classroom Utilization Benchmarks - Credit Instruction

Paulien & Associates Study

- 36 states have some type of classroom utilization guidelines for community colleges
- Illinois is <u>not</u> one of these 36
- Average of 33 WRH at 65% SSO
- Guidelines continue to evolve:
 - 32-38 WRH
 - 65% 70% SSO
 - 22-25 ASF/Station

Weely Room Hours	Range	Student Station Occupancy	Range	ASF/Station	Range
55		85%		40	
50		80%		36	
45		75%		32	
40		70%		30	
35		65%	Median	28	
32	Median	60%		22	Median
30		55%		18	
25		50%		14	
20		45%		10	





Classroom Utilization Guidelines

General Classroom Availability

- 8 AM-Noon 1 PM 5 PM 6 PM-9 PM
- 11 hours per day x 5 days per week = 55 Weekly Room Hours
- Classrooms changes: 6 changes x 15 minutes = 1.5 hours / day
 (7.5 hours / week)
- Noncredit and Event Use: 12 hours per week
- 55 hours (total) 7.5 hours (changes) 12 hours (non-credit) = 35.5 hours

Credit Instruction Utilization Expectation:

- 35 Weekly Room Hours
- 67% Student Station Occupancy
- 24 ASF/Station





MCC Classroom Utilization

All Scheduled Activity

Classroom 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 %
Building A	А	23	811	24	18	21.6	39	56%
Building C	С	6	829	25	20	28.3	47	61%
Building E	Ε	14	781	22	20	20.9	39	53%
Total No. of Rooms = 43	A	VERAGE	804	24	19	22.3	40	56%

Credit Instruction

Classroom 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		Hours in Use Student Station Occupancy %
Building A	А	23	811	24	19	17.3	30	59%
Building C	С	6	829	25	20	23.7	40	60%
Building E	E	14	781	22	19	17.6	33	52%
Total No. of Rooms = 43	Α	VERAGE	804	24	19	18.3	32	57%

Credit Instruction Target: 35 WRH; 67% SSO; 24 ASF/Station

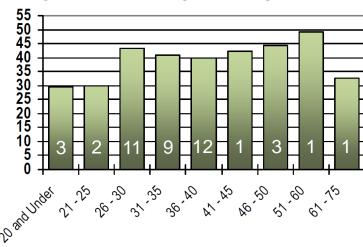




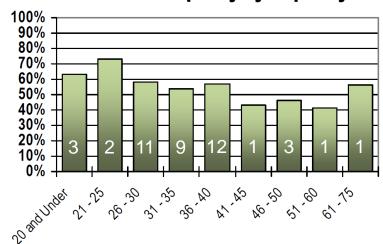
Classroom Utilization by Capacity

All Scheduled Activity

Weekly Room Hours by Capacity:

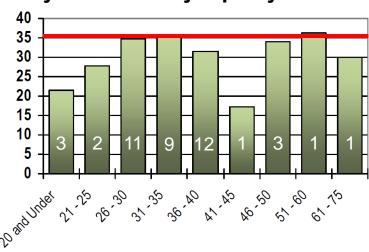


Student Station Occupancy by Capacity:

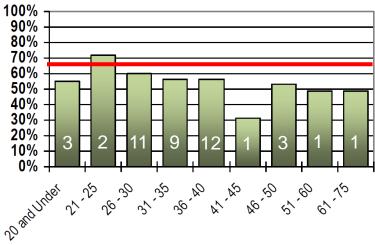


Credit Instruction

Weekly Room Hours by Capacity:



Student Station Occupancy by Capacity:







Lab Utilization Benchmarks - Credit Instruction

Paulien & Associates Study

- 34 states have some type of laboratory guidelines
- Illinois is <u>not</u> one of these 34
- Average of 23 WRH at 77% SSO
- Most Common Guidelines:
 - 24-28 WRH for Technical Labs
 - 28-30 WRH for Computer Labs
 - 76%-80% SSO
 - ASF/Station varies based on use

Laboratory Guidelines

	,		
Weely Room Hours	Range	Student Station Occupancy	Range
32			
30		90%	
28		85%	
26		80%	Median
24		75%	
23	Median	70%	
22		65%	
20		60%	
18		55%	
16		50%	
14		45%	





Teaching Laboratory Analysis – Fall 2014

All Scheduled Activity

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 %
Building A	А	28	1,027	43	17	19.2	27	70%
Building B	В	3	1,980	60	14	13.6	36	46%
Building D	D	6	2,236	118	10	12.6	26	57%
Building E	Ε	9	1,072	49	15	18.3	37	49%
Total No. of Rooms = 46	Α	VERAGE	1,256	55	16	17.7	29	62%

Credit Instruction

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 %
Building A	Α	28	1,027	42	17	17.8	25	70%
Building B	В	3	1,980	60	15	13.5	35	46%
Building D	D	6	2,236	122	11	12.7	23	63%
Building E	E	9	1,072	49	11	17.2	33	51%
Total No. of Rooms = 46	ı	AVERAGE	1,256	55	15	16.7	27	62%

Credit Instruction Target: 28 WRH; 80% SSO





Science & Health Careers Lab Utilization—Fall 2014

Science Labs

Anatomy & Physiology Lab 1:	36
Anatomy & Physiology Lab 2:	27
General Biology Lab:	33
Microbiology Lab:	24
Chemistry Lab:	22
Chemistry / Physics Lab:	30
Earth Science Lab 1:	19
Earth Science Lab 2:	40
Average Space Use:	28.875 WRH

Health Careers Labs

Nursing Lab 1:	64
Nursing Lab 2:	24
OTA Lab:	24
EMS Lab:	33

Average Space Use: 36.25 WRH

New Programs

UtilizationTarget:

• PTA

28 WRH

 Patient Care Technician





6,831 ASF

Program	Room ID	Number of Stations	Guideline Applied ASF/ Station	Guideline Assignable Square Feet	Existing ASF	Existing Surplus/ Deficit
Science						
A & P	A220	24	54	1,296	1,097	(199)
A & P	A222	24	54	1,296	1,101	(195)
Biology - Non-Majors	A224	28	54	1,512	1,102	(410)
Biology - Micro	A230	24	54	1,296	1,274	(22)
Earth Science	A223	30	45	1,350	935	(415)
Earth Science	A227	34	45	1,530	1,011	(519)
Chemistry,	A229	24	60	1,440	1,241	(199)
Chemistry,	A231	24	60	1,440	1,312	(128)
Planetarium	A223a	18	40	720	327	(393)
Biology Lab	New	24	54	1,296	0	(1,296)
Laboratory Service Space *	^{25%} of tot	al Lab Guide	1 0	3,294	3,189	(105)
	Sci	ence Lab Sub	ototal	16,470	12,589	(3,881)
OTHER SCIENCE / SUP	PORT SP	ACE				
Physics / Engineering Lab				1,350		
Cadaver Lab (6 stations)				1,000		
Student Resource Lab				600		
Weather Office				300		
(4) 24 Seat Classrooms				2,800		
(2) 48 Seat Classrooms				2,800		
Faculty Offices				5,000		
<u> </u>	Su	pport Space S	Subtotal	13,850		
TOTAL NET ASSIGNA	ABLE AR	REA:		30,320 SF	7	





Program	Room ID	Number of Stations	Guideline Applied ASF/ Station	Guideline Assignable Square Feet	Existing ASF	Existing Surplus/ Deficit	
Health Professions							
EMS Laboratory	E202	32	50	1,600	1,214	(386)	
Nursing Lab	E218	24	70	1,680	1,195	(485)	
Nursing Lab	E214	24	70	1,680	1,262	(418)	
OTA Laboratory	E215	20	100	2,000	736	(1,264)	
PTA Laboratory	New	20	100	2,000	0	(2,000)	
Patient Care Technician	New	24	45	1,080	0	(1,080)	
Laboratory Service Space * 25% of total Lab Guide			0	2,510	331	(2,179)	
Не	alth Sciences	Subtotal		12.550	4.738	(7.812)	
OTHER SCIENCE SUPPORT SPACE							
Simulation Labs (4 Labs)				2,400			
Faculty Offices				2,600			
Support Space Subtotal				5,000			
TOTAL NET ASSIGNABLE AREA:				17,550 SF			





A Qualitative Analysis – Typical Science Lab







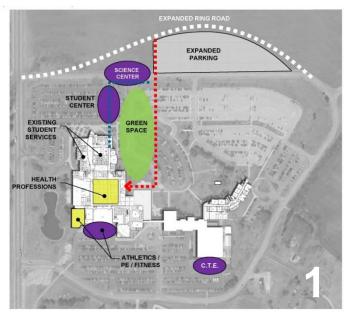
A Qualitative Analysis – Nursing Lab

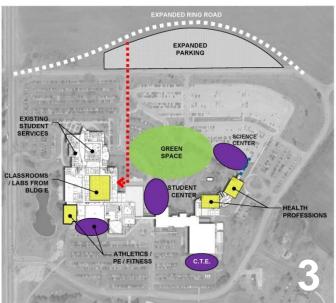


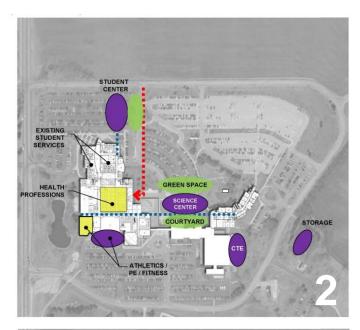


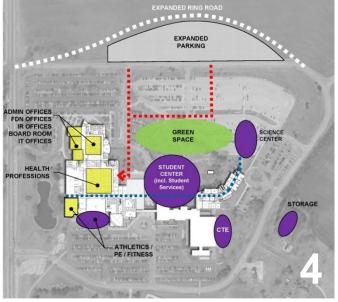


Concept Development Plans





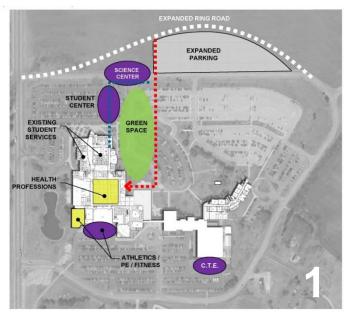


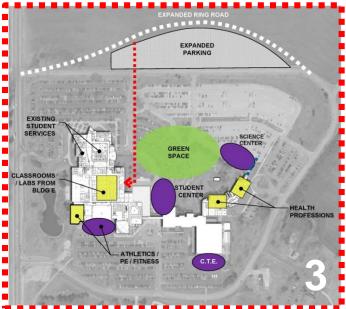


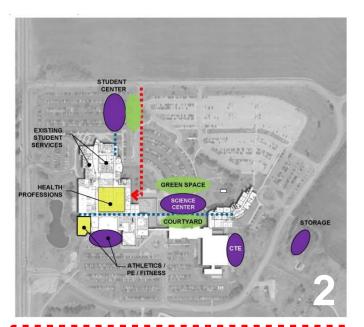


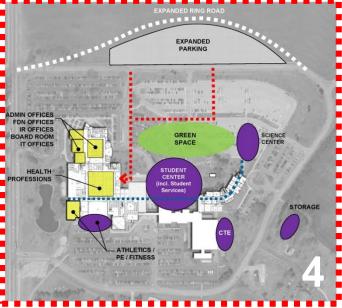


Concept Development Plans













Identified Needs

Tier 1 Priorities

Science
Health Sciences
Student Space

Tier 2 Priorities

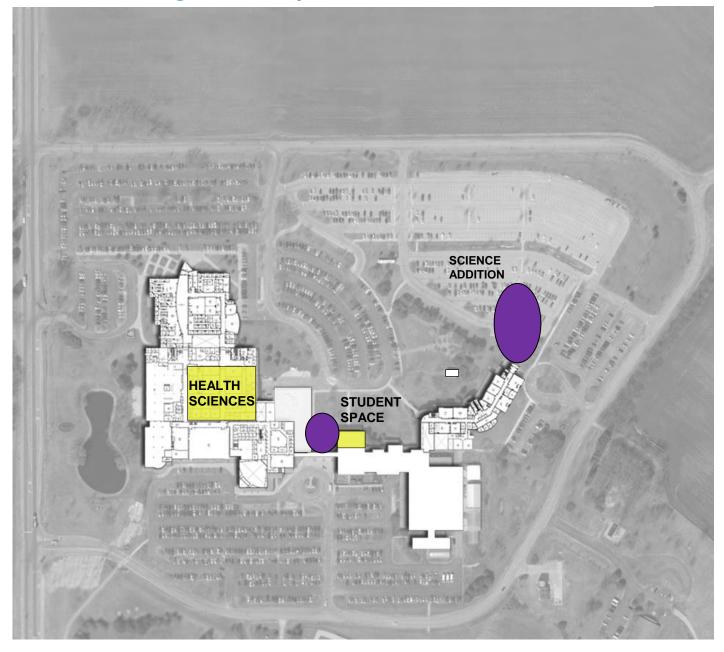
Student Services
Library / Collaboration Space
P.E. / Fitness / Athletics





Consensus Planning Concept

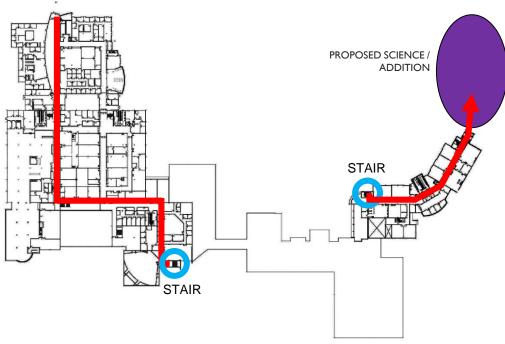
Science / Student Space







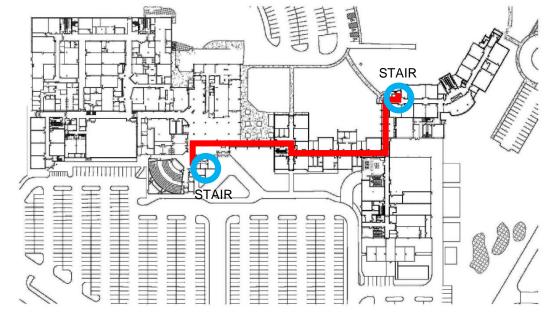
Existing Building Circulation



2nd FLOOR

ENTRY





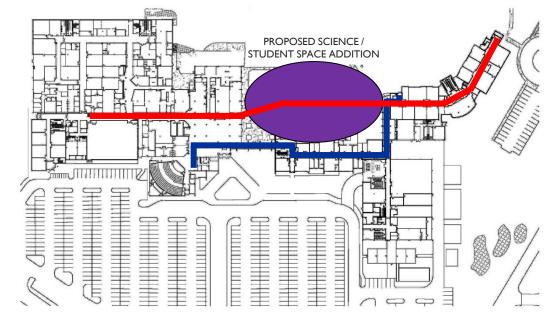




ENTRY Proposed Building Circulation with Science / Student Space Addition PROPOSED SCIENCE / STUDENT SPACE ADDITION

1ST FLOOR

2nd FLOOR

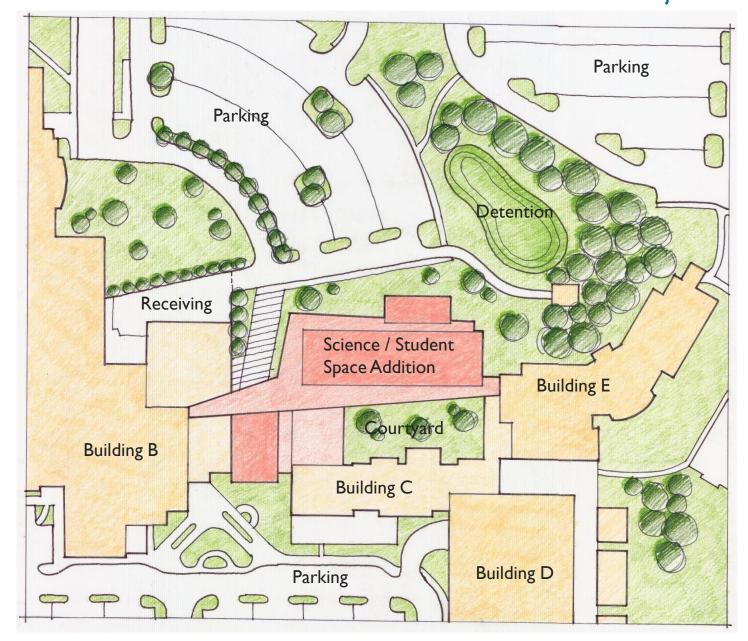






Science / Student Space Addition

Conceptual Site Plan Est. Project Cost: \$34.4m







Proposed Planning Concept

Summary







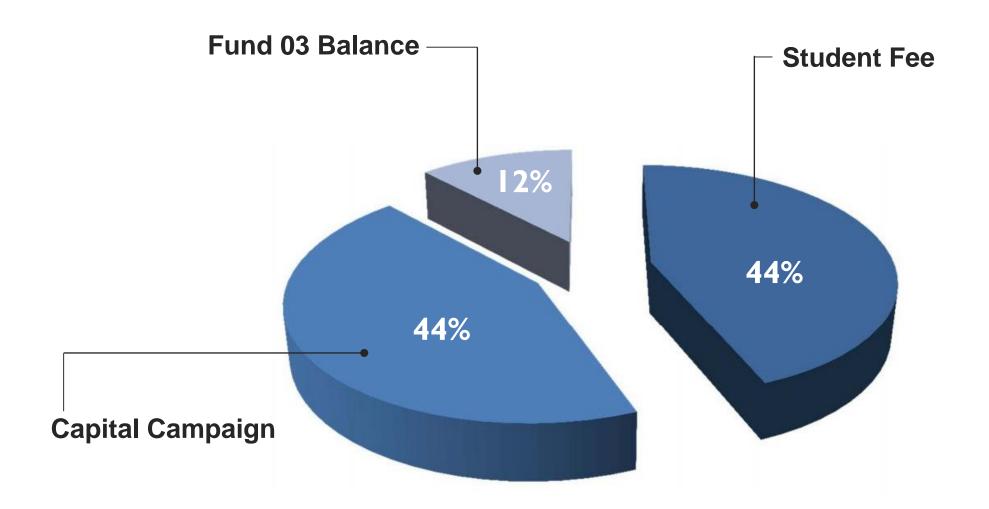
Delete Student Space (for now)
Eliminate Second Floor Connection





Proposed Funding Strategy

\$34.4M Project Budget



Board Mandate: No Taxpayer Dollars to be Used for the Project





















Illinois Community College Chief Financial Officers Spring 2016 Conference April 28, 2016

THANK YOU!

Robert Tenuta, CPA
McHenry County College
www.mchenry.edu

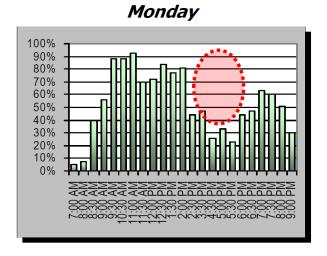
Dominick Demonica, AIA, LEED AP

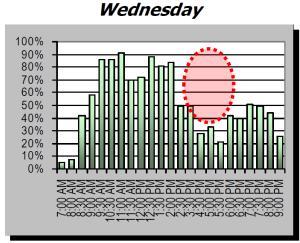
Demonica Kemper Architects www.dka-design.com

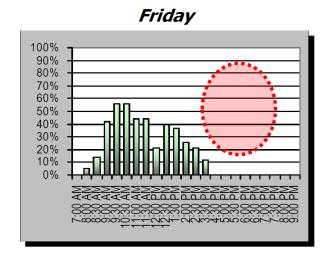


Classroom Use by Day & Hour – Credit Instruction – Fall 2014

Percent of Classrooms In Use



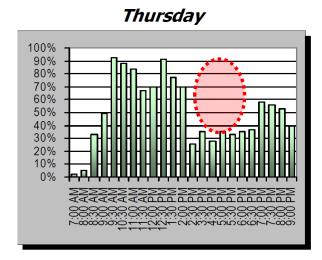


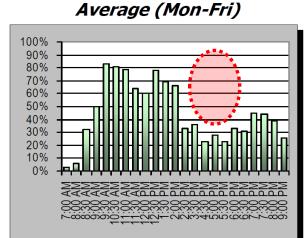


Tuesday

100%
90%
80%
70%
60%
40%
30%
10%
0%
10%
0%

**Example of the control of





Based on 991 credit courses for Fall 2014





Baseline Data: Staffing Records – Fall 2014

Institution Id	DEPT CODE	Employee's Title	BY Hdcnt	Orig Position EEO Category Desc
McHenry County College	Mathematics, Science, and Health Professions	Adj Fac MSHP	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	Career and Technical Education	Adj Fac ECTE	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	FAID	Student Worker Financial Aid	1.00	
McHenry County College	Multicultural	Student Worker Multicultural P	1.00	
McHenry County College	HCE	Adj Fac Human & Public Serv	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	Mathematics, Science, and Health Professions	Adj Fac MSHP	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	NSO	Student Worker Orientation	1.00	
McHenry County College	PRKN	Adj Tutor Perkins	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	NFP	Sec/Recep Fitness Center	1.00	PT Clerical - Secretarial
McHenry County College	Mathematics, Science, and Health Professions	Adj Fac MSHP	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	BUS	Adj Fac Technology	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	ATHL	Student Worker Athletics	1.00	
McHenry County College	FYE	Adj Fac MCC 101 & 102	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	FAID	Student Worker WSF	1.00	
McHenry County College	FAID	Student Worker WSF	1.00	
McHenry County College	TCSP	Coord, Instructional Media	1.00	FT Other Profssnl (Library, Counsel)
McHenry County College	Humanities and Social Sciences	Adj Fac HSS	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	FSAD	Dish/Warewashing & Sanitatio	1.00	PT Services - Maintenance
McHenry County College	Career and Technical Education	Adj Fac ECTE	1.00	PT Faculty Instruction 9-10 Month
McHenry County College	Safety	Campus Police Officer - PT24	1.00	PT Services - Maintenance
McHenry County College	Acad Affairs	Coord of College and Career	1.00	FT Other Profssnl (Library, Counsel)

993 Staffing Records Processed





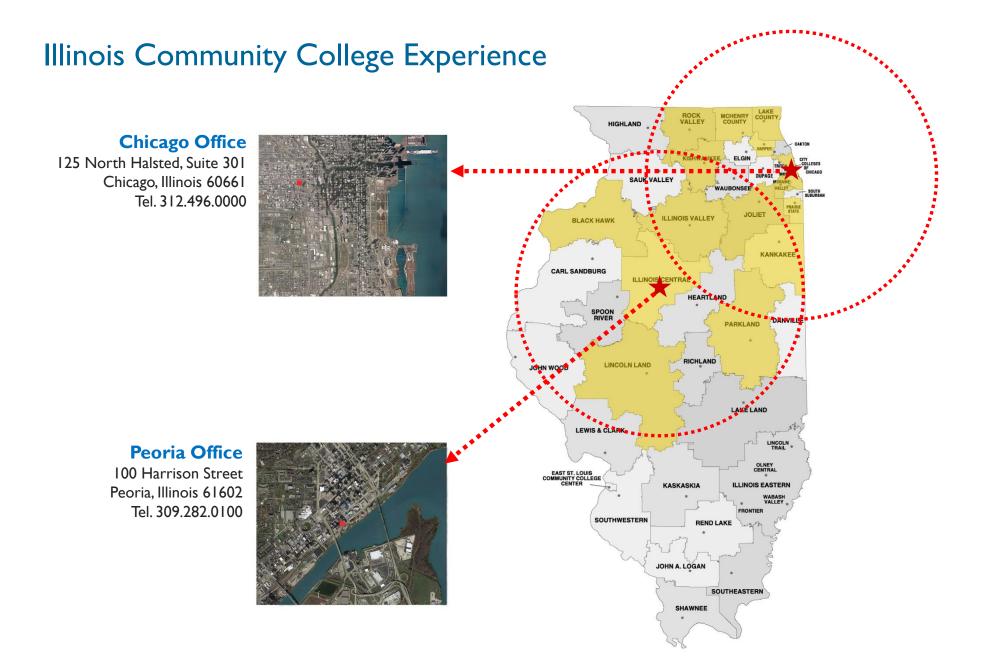
Science & Health Careers Lab Utilization—Fall 2014

	Fiscal Year				
Program	2013	2014	2015	2016	
	Ave. Age	Ave. Age	Ave. Age	Ave. Age	
Medical Administration	32.72	30.26	29.67	34.70	
Medical Billing and Coding	42.54	39.54	37.56	42.12	
Health Information Technology			37.83	37.71	
Basic Nurse Assistant Training	26.27	31.10	23.68	24.55	
Registered Nursing	30.34	29.86	32.07	32.86	
Occupational Therapy Assistant	33.77	33.56	34.31	35.46	
Emergency Medical Tech Paramedic AAS	27.37	26.70	26.17	25.90	
Emergency Medical Tech - Paramedic Cert	27.38	26.44	25.98	27.38	
Emergency Medical Tech - Ambulance	23.53	25.65	24.64	23.94	
Health Vocations Course Enrollees	52.55	19.67	19.17	21.89	
Totals	29.68	29.65	27.64	28.41	

Growth in Health Careers Programs is not <u>directly</u> related to the demographic growth within the community











Space Needs Summary

 Fall 2014 Space Needs Analysis generated an overall 20,540 ASF deficit for the campus.

 Fall 2025 Space Needs Analysis showed space deficits in 10 of 12 categories with an overall campus deficit of 63,667 ASF.



