Chairs' & Center Directors' Meeting Minutes

Date: October 6, 2014 (12:00 to 2:00 pm)
Location: WCH – Room 443
Attendees: Abbaschian, Reza
Aguilar, Guillermo
Balandin, Alex
Bhanu, Bir
Boretz, Mitch
Chrobak, Marek
Haddon, Robert
Hartney, Pat
Matsumoto, Mark
Myung, Nosang
Najjar, Walid
Ravi
Tuncel, Ertem (for Jay Farrell)
Vafai, Kambiz

Absent: Barth, Matt
Farrell, Jay
Garay, Javier
Tan, Sheldon
Wang, Albert

The agenda for the meeting is shown in Appendix 1.

1. Welcome and call for agenda items - Reza
Reza thanked participants for their presentations to EVC/P D'Anieri at the last Chairs/Directors meeting. He suggests that departments contact Elaine Winn to schedule visits by the EVC/P to a departmental faculty meeting. Reza asked departments to stress the lack of space to the EVC/P during these meetings. Nosang added the topic of Instructional Equipment funding.

2. Approval of Minutes - Pat
The minutes of the September 22nd Chairs/Directors meeting were unanimously approved.

3. Graduate Program – Mark
Mark called attention to the grad student page attached to the agenda. This top section of this page compares BCOE's grad student enrollments between Fall 2013 and Fall 2014. There are 596 grad students enrolled in BCOE this Fall compared to 549 in Fall 2013. In addition, there are 82 grad students on filing fee status so the grand total of BCOE grad students is 678 this Fall. In comparison, CHASS has 760 grad students and CNAS has 860 grad students. The middle section of this handout summarizes incoming BCOE grad students. There are 218 incoming BCOE grad students this Fall compared to 172 in Fall 2013. 55 of these incoming students are self-supporting MS students (compared to 26 last year). This section also indicates that all BCOE grad

programs are in the top 20 at UCR by enrollment. The bottom section on this handout indicates that this year's total target for incoming BCOE grad students is 208 (not including BIEN) compared to 201 for all BCOE programs last year. Mark expects BCOE's total incoming grad student target will be ~230. It was recommended that Joe Childers be invited to a future Chairs/Directors meeting to discuss funding of grad students. The group believes that there should be additional fellowship funding allocated to units based on extramural support of grad students. Also, TAship appointments shouldn't be limited to students of specific departments. Additionally, Chemistry, Physics and Biology courses that are directed to engineering students should be cross-listed. As an example, CSE 11 and CSE 111 are cross listed with Math. After discussion, Reza will form a college-wide committee (comprised of about 5 faculty members) to make recommendations directed at helping increase BCOE's student retention rate. Ravi noted that a previous BCOE committee looked at similar issues a few years ago. This previous committee work will be reviewed.

4. Undergraduate Education – Ravi

Ravi noted the undergraduate student handout attached to the agenda. The first page indicates that the average AIS score of BCOE incoming freshmen is 4535 (compared to 4308 for CNAS and 4110 for CHASS). 85% of BCOE freshmen are calculus-ready this year compared to BCOE's historical average of about 50%. The second page presents the number of BCOE undergrads by major and level. There are about 2,400 BCOE undergrads including 761 Seniors. These figures include about 100 BCOE transfer students per year. There are about 440 incoming California BCOE freshmen this year which is about 40 more than BCOE's target. The total number of incoming BCOE freshmen is about 480. The final page compares the numbers of advising staff between BCOE and CNAS. In total, BCOE would need to add 9.4 staff to reach CNAS levels.

5. Space Utilization Study – Reza

Reza presented Powerpoint slides on the campus' upcoming space utilization study. HGA has been hired to undertake this study. HGA expects to perform surveys and interviews in November and deliver the final report in February 2015. Reza has asked HGA to include research compatibility in their review of space. Reza encouraged BCOE faculty to respond to space utilization questionnaires from HGA. Benchmarking space will be included in the study. Reza believes that this study will highlight BCOE space needs. At the conclusion of this discussion, it was recommended that VCBAS Ron Coley be invited to a future Chairs/Directors meeting.

6. Schedule Changes & Impact on Students – Ravi

Reza pointed out the email from a displeased student attached to the agenda. This student complained that BCOE course schedules are changed at the last minute which causes considerable difficulty for students. Ravi noted that UCR's Academic Scheduling Office makes a First Call for courses about two quarters in advance. A Second Call is sent out which includes a relatively frozen schedule of classes for the quarter. Ravi noted that some of the schedule change requests for last quarter in BCOE probably could have been avoided. Ravi will send the list of these schedule change requests from last quarter to Chairs for their review. Reza stated that future schedule change requests will need to be made by department faculty through their Chairs. It was noted that many schedule change requests are caused by increases in class enrollments which require re-scheduling the courses to larger classrooms (at different days and times than originally scheduled). It was recommended that UCR invest in a classroom scheduling optimization program since classroom scheduling is currently done manually.

7. Classroom Scheduling/Bunching – Reza

Reza noted that there are four recommendations in the recent report on student retention that departments can act on. One recommendation is that departments should try to avoid bunching courses on Tuesdays and Thursdays. He noted the attached summary of BCOE courses for Winter, Spring and Fall 2014 quarters. Reza

commented that some bunching is due to BCOE faculty needing to travel to conferences and meetings on Fridays or Mondays. Nosang added that CEE faculty do not have any input into the scheduling of classes.

8. Faculty Recruitment – Departments
Due to time constraints, this topic was delayed to the next Chairs/Directors meeting.

9. Other Matters
Instructional Equipment: Pat stated that a message regarding Instructional Equipment requests will be coming later this month. Responses will be due in early December.

Alex added that he will be receiving a $1.7M 2-Dare grant from NSF's Office of Emerging Frontiers in Research and Innovation (EFRI). The Air Force Office of Scientific Research is contributing funding to EFRI. His BCOE co-PIs on this grant are Alexander Khitun and Roger Lake. Only nine awards were made nationally. Also, Alex is participating in UCR's new Energy Frontier Research Center called "Spins and Heat in Nanoscale Electronic Systems (SHINES)" This Center is being funded by a $12M grant from DOE. Other BCOE investigators include Javier Garay, Roger Lake and Alexander Khitun. This grant includes the availability of seed funds for UCR researchers. A Kick-Off meeting for this grant has been scheduled for mid-November.

No other matters were discussed.

UNIVERSITY OF CALIFORNIA
UC RIVERSIDE
BOURNS COLLEGE OF ENGINEERING

Chairs' & Center Directors' Meeting

October 6, 2014

Agenda

Winston Chung Hall – Room 443

1.	Welcome - Request for Agenda Items from the Floor	Reza
2.	Approval of Minutes from September 22, 2014 Meeting	Pat
3.	Graduate Program	Mark
4.	Undergraduate Education	Ravi
5.	Space Utilization Survey	Mark
6.	Schedule Changes & Impact on Students	Ravi
7.	Classroom Scheduling/Bunching	Reza
8.	Faculty Recruitment	Departments
9.	Other Matters	

Future Meeting Dates

2014

~~Monday, July 7~~
~~Monday, August 11~~
~~Monday, September 8~~
~~Monday, September 22~~
Monday, October 6
Wednesday, October 22
Monday, November 3
Monday, November 17
Monday, December 1
Monday, December 15

2015

Monday, January 5
Friday, January 23
Monday, February 2
Friday, February 20
Monday, March 2
Monday, March 16
Monday, March 30
Monday, April 13
Monday, April 27
Monday, May 11
Friday, May 29
Monday, June 8
Monday, June 22
Monday, July 6
Monday, July 20

BCOE GRADUATE STUDENT ENROLLMENT

Program	Enrolled						Filing Fee						Total					
	MS		PHD		Total		MS		PHD		Total		MS		PHD		Total	
	13F	14F	13F	14F	13F	14F	13F	14F	13F	14F	13F	14F	13F	14F	13F	14F	13F	14F
BIEN	21	12	64	72	85	84	2	5	2	4	4	9	23	17	66	76	89	93
CEE	9	11	71	79	80	90	0	1	3	7	3	8	9	12	74	86	83	98
CEN	4	24	NA	NA	4	24	0	0	NA	NA	0	0	4	24	0	0	4	24
CPSC	47	47	113	99	160	146	8	10	12	18	20	28	55	57	125	117	180	174
ELEN	12	30	97	89	109	119	3	1	6	23	9	24	15	31	103	112	118	143
MCEN	18	26	39	45	57	71	4	4	4	5	8	9	22	30	43	50	65	80
MSE	5	2	48	59	53	61	1	0	4	4	5	4	6	2	52	63	58	65
OENR	1	1	NA	NA	1	1	0	0	NA	NA	0	0	1	1	0	0	1	1
BCOE	117	153	432	443	549	596	18	21	31	61	49	82	135	174	463	504	598	678

BCOE INCOMING GRADUATE STUDENT COHORT

Program	Enrolled					
	MS		PHD		Subtotal	
	13F	14F	13F	14F	13F	14F
BIEN	15	6	16	15	31	21
CEE	5	9	25	27	30	36
CEN	4	18	NA	NA	4	18
CPSC	20	27	19	23	39	50
ELEN	11	24	21	23	32	47
MCEN	12	14	7	15	19	29
MSE	1	2	15	15	16	17
OENR	1	0	NA	NA	1	0
BCOE	69	100	103	118	172	218

UCR TOP 20 GRADUATE PROGRAMS BY ENROLLMENT

Rank	Unit	Program	Enr	PHD
1	BCOE	CPSC	174	117
2	AGSM	MGMT	157	0
3	BCOE	ELEN	143	112
4	GSOE	EDUC	137	99
5	CNAS	PHYS	133	132
6	CHASS	CWRT	130	0
7	CNAS	CHEM	120	118
8	SOM	MDCL	100	0
9	BCOE	CEE	98	85
10	BCOE	BIEN	93	76

Rank	Unit	Program	Enr	PHD
11	CHASS	PSYC	83	83
12	CHASS	HIST	81	75
13	BCOE	MCEN	80	50
14	CHASS	ENGL	79	79
15	AGSM	FMBA	78	0
16	CNAS	MATH	76	70
17	GSOE	EDGE	73	0
18	CNAS	PLBL	66	60
19	BCOE	MSE	65	63
20	CHASS	ECON	56	55

BCOE 2015-16 GRADUATE STUDENT RECRUITMENT TARGETS

Program	2014-15 Targets							2015-16 Targets						
	MS		PHD		Subtotal		Total	MS		PHD		Subtotal		Total
	Dom	Int'l	Dom	Int'l	Dom	Int'l		Dom	Int'l	Dom	Int'l	Dom	Int'l	
BIEN	6	6	9	3	15	9	24					0	0	0
CEE	4	3	7	7	11	10	21	4	1	8	11	12	12	24
CEN	3	7	NA	NA	3	7	10	6	14	NA	NA	6	14	20
CPSC	10	15	10	15	20	30	50	10	15	13	17	23	32	55
ELEN	5	20	5	20	10	40	50	7	23	7	23	14	46	60
MCEN	13	0	10	1	23	1	24	8	4	8	4	16	8	24
MSE	5	5	6	6	11	11	22	5	5	10	5	15	10	25
OENR			NA	NA			0			NA	NA			0
BCOE	46	56	47	52	93	108	201	40	62	46	60	86	122	208

Increasing Freshman Quality

COLLEGE	Avg. Freshman AIS	# BCOE Standard Deviations Below
BCOE	4535	0
CNAS	4308	0.98
CHASS	4110	1.84
UCR	**4233**	**1.31**

BCOE F'14 Freshman Cohort:

- 85% are calculus-ready, or have finished calculus
- Historically, that number is ~50%

Compared to UCR freshmen:

- 50% are in the top 15% of campus freshmen
- 80% are in the top 33% of campus freshmen

Enrollments By Major and Level

MAJOR	FR	SO	JR	SR	Total
BEBM	7	6	4	1	**18**
BIEN	58	71	71	111	**311**
BUNF	11	7	8	7	**33**
CEN	68	51	38	63	**220**
CHBM	1	2	1		**4**
CHEN	41	62	73	115	**292**
CSBM	9	8	2	1	**20**
EEBM	2	2			**4**
ELEN	64	65	79	83	**291**
ENBM	1	1			**2**
ENCS	68	77	91	126	**362**
ENEN	20	39	28	51	**138**
ENLM					**1**
ENPR	8	12	8	7	**35**
ENUN	4	14	12	9	**39**
ENVS	1				**1**
MCBM	5	3	2	2	**12**
MCEN	117	98	127	172	**514**
MSE	22	12	13	13	**60**
Total	**507**	**530**	**557**	**761**	**2357**

	CNAS	BCOE	Ratio
F'13 Enrollment	4568	2364	1.93

	Current Campus-Funded FTE						
		CNAS	BCOE	Needed For Parity	BCOE Shortfall	Total shortfall	
Advising	Advising FTE	17	3.5	8.8	5.3	5.8	9.4
	Transition adviser	1	0	0.5	0.5		
Admin support	Admin. Support	3	0	1.6	1.6	1.6	
Enrollment management	Enrollment Management FTE	4	0	2.1	2.1	2.1	

Reza Abbaschian

From: Reza Abbaschian
Sent: Tuesday, September 23, 2014 1:45 PM
To: Bir Bhanu; Guillermo Aguilar; Javier Garay; Jay Farrell; 'Kambiz Vafai'; 'Marek Chrobak'; Nosang Myung; 'Walid Najjar'
Cc: 'Chinya V. Ravishankar'; Patrick Hartney
Subject: FW: Continuous Dissapointment

Dear Colleagues,

The following email from a disappointed student of ours is self-explanatory. We are looking into details of these changes, and will share our findings with you at a future chairs meeting. In the meantime, please make every effort to avoid last minute changes. Thank you.

Best regards,

Reza

From: Displeased Student [mailto:displeasedstudentucr@gmail.com]
Sent: Wednesday, September 17, 2014 2:41 PM
To: Janice Wilkins; Terri Phonharath; Thomas McGraw; Evelyn Luna; Emily Nudge; Jeffrey Birou; Chris Williams; Tara Brown; Roderick Smith; Reza Abbaschian
Subject: Continuous Dissapointment

Dear Dr. Reza Abbaschian,

I send this email to you so you can also be apart of the discussion. To see how students feel about the UCR BCOE Student Affairs Staff with regard to how they choose to deal with this aspect of their responsibilities. Hoping you can be the motive for change.

Dear UCR BCOE Student Affairs Staff,

This is honestly the last straw. We have had enough.

Every quarter, when a student signs up for classes we choose our schedule for the next quarter. Sorry, strike that, we choose a list of classes that could actually occur at any time during the week.

You all constantly set up classes on times that will be changed a week down the line. *How could you do that to us?* To students who have to set up their work/extra-curricular/etc. around their schedule.

I personally had to rearrange my schedule for a non-classroom related activity for Fall14 about 2-3 weeks ago because of a change. My managing personnel was absolutely tired of it and I was nervous of the draw back of your failures/mistakes. Luckily he, once again, understood. Now, again, I recently find out of another change you have put on my schedule. What happens to me next falls on your shoulders. To elaborate, ***the changes to my schedule were significant.***

Still, I am not speaking solely for me over my problem. If I were, this email would have been sent *long long* ago when I first encountered the problem. I speak for all UCR BCOE students who I have talked with throughout the quarters about this exact problem. How it has greatly effected many of them and how fed up of it they are.

You are not worthy of your jobs. Plain and simple. Set up a class schedule that will actually work. It is not that difficult. I have told countless students at other schools about my problem. NO ONE has had their classes changed to the ***extent*** of the UCR BCOE department. *They find it laughable that the school could do this.*

I am not talking to the 3 to 4 new advisors/staff (Who I would like to exclude from this email, but advise them to not learn point-to-point from the present advisors/staff. They only know mediocrity), but instead to the ongoing advisors/staff who screw student over every single time. YOU know what classes students will take, YOU decide how to arrange them in the first place to keep conflicts from occuring. There is no excuse. What is the point of all the scheduling systems you set in place and make us do quarterly/annually. If all of you don't have the ability to do it yourself. Take initiative, ask another universities department how to correctly set up class schedules

Don't talk about the stress of your job. It is your job. We honestly, genuinely appreciate everything you do for us, the advice/help/assistance you give, but this is such a huge part of your responsibilities that effects us too greatly to be kept quite about.

You have ruined enough schedules. Enough is enough.

Sincerely,

Displeased Students of University of California Riverside, Bourns College of Engineering

WINTER 2014 - LECTURES ONLY						
FREQUENCY BY DAYS	BIEN	CEE	CSE	EE	ME	Total
F		3		1		4
M	2	1	1		1	5
MW		3	1	2		6
MWF	1	4	6	4		15
ONLINE			2			2
TR	4	4	14	8	10	40
W			1		1	2
WF		1				1
Total	7	16	25	15	12	75

WINTER 2014 - ALL (LECTURES/LABS/DISCUSSIONS/COLLOQIUM/SEMINAR)						
FREQUENCY BY DAYS	BIEN	CEE	CSE	EE	ME	Total
F	3	5	5	6	5	24
M	5	3	18	8	12	46
MW		5	2	2		9
MWF	1	4	6	4		15
ONLINE			2			2
R		3	10	3	2	18
T	1	4	10	6	4	25
TBA		2		1		3
TR	4	4	16	11	10	45
W	5	2	19	8	10	44
WF		1		3		4
Total	19	33	88	52	43	235

SPRING 2014 - LECTURES ONLY								
FREQUENCY BY DAYS	BIEN	CEE	CSE	EE	ENGR	ME	MSE	Total
F	1							1
M	1			2			1	4
MF						1		1
MW	1	2	1			2	1	7
MWF	3	1	7	2		4		17
ONLINE			1					1
R			1					1
T		2						2
TR	2	9	14	10	2	3		40
W			3			1		4
Total	8	14	27	14	2	11	2	78

SPRING 2014 - ALL (LECTURES/LABS/DISCUSSIONS/COLLOQIUM/SEMINAR)								
FREQUENCY BY DAYS	BIEN	CEE	CSE	EE	ENGR	ME	MSE	Total
F	3	4	11	4		3	1	26
M	2	4	17	9		8	1	41
MF			1			1		2
MW	1	5	2			2	1	11
MWF	3	1	6	2		4		16
ONLINE			1					1
R	2		6	7	1	2		18
T	2	2	13	6	2	4		29
TBA		2				3	1	6
TR	3	9	14	10	2	3		41
W	4	1	15	10		10	1	41
WF		2	1					3
(blank)			3					3
Total	20	30	90	48	5	40	5	238

FALL 2014 - LECTURES ONLY									
FREQUENCY BY DAYS	BIEN	CEE	CSE	EE	ENGR	ENVE	ME	MSE	Total
F			1	2			1		4
M	2				7		1		10
MW	1	2	2				1		6
MWF	2		5	1	1	2	2		13
ONLINE			1						1
TR	5	5	14	12	3	1	6	1	47
W		1	1				1		3
Total	10	8	24	15	11	3	12	1	84

FALL 2014 - - ALL (LECTURES/LABS/DISCUSSIONS/COLLOQIUM/SEMINAR)								
FREQUENCY BY DAYS	BIEN	CEE	CSE	EE	ENGR	ME	MSE	Total
F	9	3	4	6		4		26
M	4	4	8	10	6	7		39
MW	1	1	1	1		1		5
MWF	2	2	4	1		2		11
ONLINE			1					1
R		1	2	1	2	3		9
RF						1		1
T		1	9	5	2	5		22
T					1	1		2
TBA							1	1
TR	5	6	11	12	4	9	1	48
W	5	3	12	4	1	6		31
WF			1			1		2
(blank)				2				2
Total	26	21	53	42	16	40	2	200

Lectures only

Fall 2014 - Lectures only								
PROGRAM	Course	Section	Max. Enroll	Type	Days	Times	Location	Instructor
CSE	**CS 161L**	1	60	LEC	F	0910-1000AM	MSE 003	NAJJAR
EE	**EE 010**	21	120	LEC	F	1110-1200PM	HMNSS 1501	FARRELL/LIANG
EE	**EE 175A**	1	78	LEC	F	1210-0100PM	WAT 1000	LIANG
ME	**ME 170B**	21	120	DIS	F	0410-0600PM	HMNSS 1501	Venkatadriagaram,S
BIEN	**BIEN 001**	1	80	COL	M	0910-1000AM	WAT 1101	STAFF
BIEN	**BIEN 155**	1	25	LAB	M	1110-0200PM	MSE 154	LIAO
ENGR	**ENGR 001G**	1	100	ACT	M	0410-0500PM	LFSC 1500	NAJJAR
ENGR	**ENGR 101G**	1	35	ACT	M	0410-0500PM	BRNHL A125	PAYNE
ENGR	**ENGR 101I**	1	50	ACT	M	0410-0500PM	BRNHL A125	PAYNE
ENGR	**ENGR 101M**	1	15	ACT	M	0410-0500PM	BRNHL A125	PAYNE
ENGR	**ENGR 118**		148	LEC	M	0910-1000AM	HMNSS 1501	WONG
ENGR	**ENGR001I**	1	80	ACT	M	0410-0500PM	LFSC 1500	NAJJAR
ENGR	**ENGR001M**	1	20	ACT	M	0410-0500PM	LFSC 1500	NAJJAR
ME	**ME 175A**	1	120	LEC	M	0410-0600PM	HMNSS 1501	STAFF
BIEN	**BIEN 10**	1	40	LEC	MW	1110-1200PM	PRCE 3374	STAFF
CEE	**CHE 110A**	1	120	LEC	MW	1110-1200PM	HMNSS 1501	TAM
CEE	**CHE 124L**	1	20	LAB	MW	0210-0500PM	BRNHL B312	KUMAR
CSE	**CS 014**	1	90	LEC	MW	0510-0630PM	OLMH 1208	SHELTON
CSE	**CS 130**	1	84	LEC	MW	0210-0330PM	OLMH 1212	ZORDAN
ME	**ME 103**	1	180	LEC	MW	0210-0330PM	INTN 1020	SAWYER
BIEN	**BIEN 101**	1	80	LEC	MWF	1010-1100AM	SPTH 2200	STAFF
BIEN	**BIEN 167**	1	45	LEC	MWF	1010-1100AM	MSE 003	GROVER
CSE	**CS 010**	3	70	LEC	MWF	0110-0200PM	SPR 1340	KOEHLER
CSE	**CS 010**	1	105	LEC	MWF	0910-1000AM	CHUNG 138	MILLER
CSE	**CS 010**	2	105	LEC	MWF	1010-1100AM	CHUNG 138	MILLER
CSE	**CS 012**	1	105	LEC	MWF	0310-0400PM	BRNHL A125	MILLER
CSE	**CS 122A**	1	80	LEC	MWF	0810-0900AM	SPR 1340	MCDANIEL
EE	**EE 138**	1	50	LEC	MWF	0110-0200PM	CHUNG 142	HABERER
ENGR	**ENGR 118**	1	100	LEC	MWF	0110-0200PM	SPR 1102	WONG
ENVE	**ENVE 120**	1	50	LEC	MWF	0210-0300PM	MSE 003	MATSUMOTO
ENVE	**ENVE 171**	1	60	LEC	MWF	0210-0300PM	MSE 103	JASSBY
ME	**ME 156**	1	50	LEC	MWF	0210-0300PM	BOYHL 1471	Rao
ME	**ME 18**	1	210	LEC	MWF	0410-0500PM	MSE 104	Pasqualetti
CSE	**CS 010V**	1	105	LEC	ONLINE	ONLINE	ONLINE	LINARD
BIEN	**BIEN 110**	1	104	LEC	TR	0940-1100AM	CHUNG 138	ANVARI
BIEN	**BIEN 135**	1	70	LEC	TR	0340-0500PM	OLMH 421	MORIKIS
BIEN	**BIEN 138**	1	45	LEC	TR	1240-0200PM	MSE 103	GHOSH
BIEN	**BIEN 140B**	1	45	LEC	TR	0210-0330PM	MSE 103	VULLEV
BIEN	**BIEN 159**	1	40	LEC	TR	1110-1230PM	CHUNG 143	SCHULTZ
CEE	**CEE 135**	1	80	LEC	TR	1240-0200PM	WAT 1101	KISAILUS
CEE	**CHE 114**	1	120	LEC	TR	0210-0330PM	HMNSS 1501	GOU
CEE	**CHE 117**	1	80	LEC	TR	0810-0930AM	SPTH 2200	GE
CEE	**CHE 124**	1	20	LEC	TR	0510-0630PM	PHY 1111	WHEELDON
CEE	**CHE 160B**	1	75	LAB	TR	0210-0500PM	BRNHL B134	ASA-AWAKU
CSE	**CS 005**	1	120	LEC	TR	0810-0930AM	BRNHL A125	DOWNEY
CSE	**CS 006**	1	120	LEC	TR	1110-1230PM	BRNHL A125	DOWNEY
CSE	**CS 008**	2	270	LEC	TR	0340-0500PM	MSE 104	GUSTAFSON
CSE	**CS 008**	3	270	LEC	TR	0510-0630PM	MSE 104	GUSTAFSON
CSE	**CS 008**	1	270	LEC	TR	1240-0200PM	MSE 104	GUSTAFSON
CSE	**CS 061**	1	70	LEC	TR	1110-1230PM	OLMH 1212	LINARD
CSE	**CS 061**	2	70	LEC	TR	1240-0200PM	OLMH 1212	LINARD
CSE	**CS 100**	1	90	LEC	TR	0510-0630PM	SPTH 2200	IZBICKI
CSE	**CS 111**	1	80	LEC	TR	0210-0330PM	SPR 1340	CHROBAK
CSE	**CS 141**	1	100	LEC	TR	0940-1100AM	SPR 1102	LONARDI
CSE	**CS 161**	1	60	LEC	TR	0210-0330PM	SPTH 2200	NAJJAR
CSE	**CS 165**	1	45	LEC	TR	0340-0500PM	SURGE 171	RAVISHANKAR
CSE	**CS 180**	1	85	LEC	TR	0940-1100AM	SPTH 1307	NEAMTIU
EE	**EE 001B**	1	30	LEC	TR	0940-1100AM	SURGE 171	ABOU-GALALA
EE	**EE 003**	1	200	LEC	TR	0810-0930AM	INTN 1020	AMOS
EE	**EE 100A**	1	80	LEC	TR	0340-0500PM	WAT 1101	M. LIU
EE	**EE 110A**	1	80	LEC	TR	1110-1230PM	SPTH 2200	CHOMKO
EE	**EE 115**	1	60	LEC	TR	0810-0930AM	MSE 103	DUMER
EE	**EE 128**	1	60	LEC	TR	0210-0330PM	CHUNG 143	CHOMKO
EE	**EE 133**	1	50	LEC	TR	0340-0500PM	MSE 003	KOROTKOV
EE	**EE 139**	1	40	LEC	TR	0940-1100AM	SURGE 172	OZKAN
EE	**EE 141**	1	60	LEC	TR	1240-0200PM	BOYHL 1471	HUA
EE	**EE 155**	1	40	LEC	TR	0640-0800PM	CHUNG 142	YU
EE	**EE 1A**	1	180	LEC	TR	1240-0200PM	MSE 116	ABOU-GALALA
EE	**EE/CS 120A**	1	108	LEC	TR	1110-1230PM	OLMH 1208	ZHU
ENGR	**ENGR 108**	1	250	LEC	TR	0810-0930AM	MSE 104	HEIDARZADEH
ENGR	**ENGR 160**	1	30	LEC	TR	1110-1230PM	HMNSS 1403	MOHSENIAN-RAD
ENGR	**ENGR 180W**	1	72	LEC	TR	0510-0630PM	OLMH 421	BURTON/GRAHAM
ENVE	**ENVE 160B**	1	45	LAB	TR	1110-0200PM	BRNHL B134	COCKER
CSE	**MATH/CS 011**	1	60	LEC	TR	0340-0500PM	SPTH 2200	MATH
ME	**ME 100A**	1	180	LEC	TR	1110-1230PM	MSE 104	Vafai
ME	**ME 114**	1	180	LEC	TR	0510-0630PM	BRNHL B118	Mathaudhu
ME	**ME 135**	1	140	LEC	TR	0640-0800PM	HMNSS 1501	Mangolini
ME	**ME 136**	1	30	LEC	TR	1110-1230PM	BOYHL 1471	Jung
ME	**ME 176**	1	30	LEC	TR	0210-0330PM	CHUNG 142	Venkatadriagaram,S
ME	**ME 4**	1	105	LEC	TR	0340-0500PM	HMNSS 1501	Venkatadriagaram,S
MSE	**MSE 161**	1	30	LEC	TR	1110-1230PM	MSE 113	Kisailus
CEE	**CEE 010**	1	80	LEC	W	1210-0100PM	SPTH 2200	TAM
CSE	**CS 179F**	1	45	DIS	W	0410-0500PM	SPTH 1307	PAYNE
ME	**ME 175B**	1	60	LEC	W	0510-0700PM	BOYHL 1471	Sawyer

Combined sections, Fall 14

PROGRAM	Course	Section	Max. Enroll	Type	Days	Times	Location
BIEN	**BIEN 001**	1	85	COL	M	0910-1000AM	
BIEN	**BIEN 10**		40	DIS	F	0910-1000AM	
BIEN	**BIEN 10**		40	PRC	F	1010-0100PM	
BIEN	**BIEN 10**	1	40	LEC	MW	1110-1200PM	
BIEN	**BIEN 101**	1	70	LEC	MWF	0910-1000AM	
BIEN	**BIEN 101**		70	DIS	W	0410-0500PM	
BIEN	**BIEN 110**	21	52	DIS	F	0110-0200PM	
BIEN	**BIEN 110**	22	52	DIS	F	0210-0300PM	
BIEN	**BIEN 110**	1	104	LEC	TR	1110-1230PM	
BIEN	**BIEN 135**	22	40	DIS	F	0210-0300PM	
BIEN	**BIEN 135**	1	80	LEC	TR	0640-0800PM	
BIEN	**BIEN 135**	21	40	DIS	W	0410-0500PM	
BIEN	**BIEN 138**	1	90	LEC	TR	0210-0330PM	
BIEN	**BIEN 138**	21	90	DIS	W	0210-0300PM	
BIEN	**BIEN 140B**		62	DIS	F	1110-1200PM	
BIEN	**BIEN 140B**	1	62	LEC	TR	0210-0330PM	
BIEN	**BIEN 155**	21	75	DIS	F	0310-0400PM	
BIEN	**BIEN 155**	3	25	LAB	F	1110-0200PM	MSE 154
BIEN	**BIEN 155**	1	25	LAB	M	1110-0200PM	MSE 154
BIEN	**BIEN 155**	2	25	LAB	W	1110-0200PM	MSE 154
BIEN	**BIEN 159**		80	DIS	M	0210-0300PM	
BIEN	**BIEN 159**	1	80	LEC	TR	0940-1100AM	
BIEN	**BIEN 167**		70	DIS	F	0210-0300PM	
BIEN	**BIEN 167**	1	70	LEC	MWF	1010-1100AM	
BIEN	**BIEN 175A**		80	PRC	M	0310-0600PM	
BIEN	**BIEN 175A**	1	80	LEC	W	0310-0400PM	
CEE	**CEE 010**	22	40	LAB	R	1110-0200PM	BRNHL B255
CEE	**CEE 010**	21	40	LAB	T	1110-0200PM	BRNHL B255
CEE	**CEE 010**	1	80	LEC	W	1210-0100PM	
CEE	**CEE 135**		100	DIS	M	1110-1200PM	
CEE	**CEE 135**	1	100	LEC	TR	1240-0200PM	
CEE	**CHE 110A**		120	DIS	F	0910-1000AM	
CEE	**CHE 110A**	1	120	LEC	M	0810-1000AM	
CEE	**CHE 114**	1	120	LEC	MW	0640-0800PM	
CEE	**CHE 114**		120	DIS	W	1110-1200PM	
CEE	**CHE 117**		80	DIS	F	0810-0900AM	
CEE	**CHE 117**	1	80	LEC	TR	0810-0930AM	
CEE	**CHE 124**	1	20	LEC	TR	0510-0630PM	
CEE	**CHE 124**		20	DIS	W	1010-1100AM	
CEE	**CHE 160B**	1	75	LAB	TR	0210-0500PM	BRNHL B134
CSE	**CS 010**	1	105	LEC	MWF	0910-1000AM	
CSE	**CS 010**	2	105	LEC	MWF	1010-1100AM	
CSE	**CS 010**	23	35	LAB	T	0110-0300PM	CHUNG 129
CSE	**CS 010**	24	35	LAB	T	0310-0500PM	CHUNG 129
CSE	**CS 010**	25	35	LAB	T	0810-10000AM	CHUNG 135
CSE	**CS 010**	21	35	LAB	T	0810-1000AM	CHUNG 129
CSE	**CS 010**	22	35	LAB	T	1010-1200PM	CHUNG 129
CSE	**CS 010**	26	35	LAB	T	1010-1200PM	CHUNG 135
CSE	**CS 010V**	1	105	DIS	ONLINE	ONLINE	ONLINE
CSE	**CS 012**	1	105	LEC	MWF	0310-0400PM	
CSE	**CS 012**	*23*	*35*	*LAB*	*W*	*0110-0300PM*	*CHUNG 133*

CSE	**CS 012**	21	35	LAB	W	0810-1000AM	CHUNG 133
CSE	**CS 012**	22	35	LAB	W	1010-1200PM	CHUNG 133
CSE	**CS 014**	1	90	LEC	MW	0510-0630PM	
CSE	**CS 014**	21	45	LAB	W	0210-0500PM	CHUNG 127
CSE	**CS 014**	22	45	LAB	W	0640-0930PM	CHUNG 127
CSE	**CS 061**	21	35	LAB	T	0610-0900PM	CHUNG 129
CSE	**CS 061**	24	35	LAB	T	0610-0900PM	CHUNG 135
CSE	**CS 061**	1	70	LEC	TR	1110-1230PM	
CSE	**CS 061**	2	70	LEC	TR	1240-0200PM	
CSE	**CS 061**	*22*	*35*	*LAB*	*W*	*0810-1100AM*	*CHUNG 129*
CSE	**CS 061**	23	35	LAB	W	1110-0200PM	CHUNG 129
CSE	**CS 100**	21	45	LAB	M	0810-1100AM	CHUNG 135
CSE	**CS 100**	22	45	LAB	M	1110-0200PM	CHUNG 135
CSE	**CS 100**	1	90	LEC	TR	0210-0330PM	
CSE	**CS 111**	*23*	*40*	*DIS*	*F*	*0210-0300PM*	
CSE	**CS 111**	21	40	DIS	M	0510-0600PM	
CSE	**CS 111**	22	40	DIS	T	0510-0600PM	
CSE	**CS 111**	1	120	LEC	TR	0940-1100AM	
CSE	**CS 122A**	1	90	LEC	MWF	0310-0400PM	
CSE	**CS 122A**	21	45	LAB	TR	1110-0200PM	CHUNG 136
CSE	**CS 122A**	22	45	LAB	WF	0810-1100AM	CHUNG 136
CSE	**CS 130**	21	35	LAB	M	0810-1100AM	CHUNG 127
CSE	**CS 130**	22	35	LAB	M	1110-0200PM	CHUNG 127
CSE	**CS 130**	2	70	LEC	TR	0210-0330PM	
CSE	**CS 141**	22	45	DIS	R	0810-0900AM	
CSE	**CS 141**	1	90	LEC	TR	0940-1100AM	
CSE	**CS 141**	21	45	DIS	W	0510-0600PM	
CSE	**CS 161**	*22*	*35*	*DIS*	*R*	*0510-0600PM*	
CSE	**CS 161**	1	70	LEC	TR	1240-0200PM	
CSE	**CS 161**	21	35	DIS	W	0410-0500PM	
CSE	**CS 161L**	1	70	LEC	M	0210-0300PM	
CSE	**CS 161L**	*21*	*35*	*LAB*	*M*	*0610-0900PM*	*CHUNG 136*
CSE	**CS 161L**	22	35	LAB	W	1110-0200PM	CHUNG 136
CSE	**CS 165**	21	45	LAB	M	0610-0900PM	CHUNG 135
CSE	**CS 165**	1	45	LEC	TR	0340-0500PM	
CSE	**CS 179F**	21	35	LAB	F	1110-0200PM	CHUNG 127
CSE	**CS 179F**	1	35	DIS	W	0210-0300PM	
CSE	**CS 180**	1	39	LEC	TR	0940-1100AM	
CSE	**CS 180**	21	39	LAB	W	0610-0900PM	CHUNG 135
EE	**EE 001A**	1	180	LEC	TR	0940-1100AM	
EE	**EE 001B**	1	30	LEC	TR	1240-0200PM	
EE	**EE 001B**		30	LAB	W	1110-0200PM	CHUNG 121
EE	**EE 010**	21	105	LEC	F	1110-1200PM	
EE	**EE 01LA**	3	30	LAB	M	0210-0500PM	CHUNG 121
EE	**EE 01LA**	4	30	LAB	M	0610-0900PM	CHUNG 121
EE	**EE 01LA**	1	30	LAB	M	0810-1100AM	CHUNG 121
EE	**EE 01LA**	2	30	LAB	M	1110-0200PM	CHUNG 121
EE	**EE 01LA**	*6*	*30*	*LAB*	*T*	*0610-0900PM*	*CHUNG 121*
EE	**EE 01LA**	5	30	LAB	T	1110-0200PM	CHUNG 121
EE	**EE 100A**	22	30	LAB	M	0210-0500PM	CHUNG 128

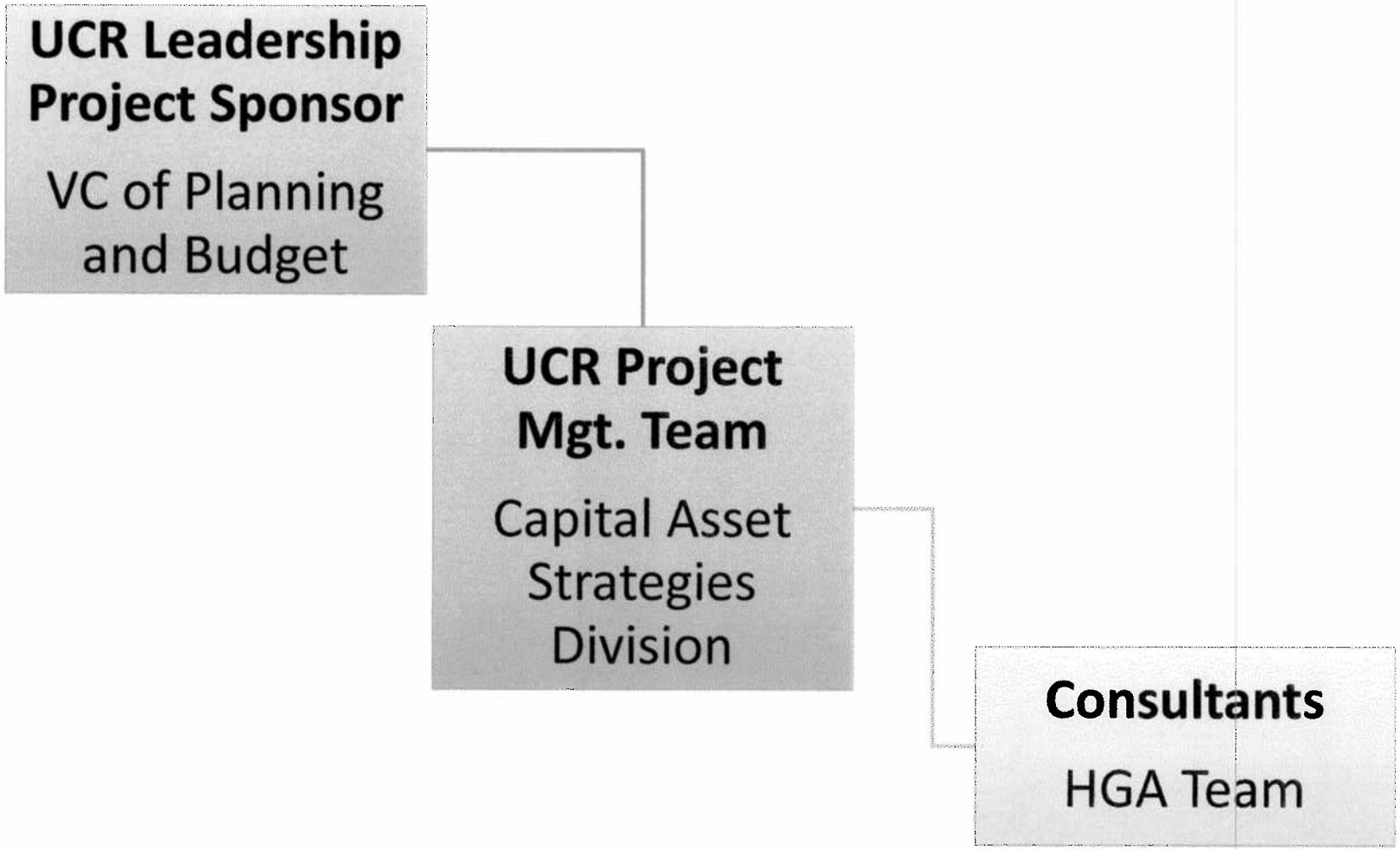
EE	**EE 100A**	23	30	LAB	M	0610-0900PM	CHUNG 128
EE	**EE 100A**	21	30	LAB	M	1110-0200PM	CHUNG 128
EE	**EE 100A**	24	30	LAB	T	1110-0200PM	CHUNG 128
EE	**EE 100A**	1	120	LEC	TR	0210-0330PM	
EE	**EE 110A**	21	50	DIS	M	0510-0600PM	
EE	**EE 110A**	22	50	DIS	T	0510-0600PM	
EE	**EE 110A**	1	100	LEC	TR	0940-1100AM	
EE	**EE 115**	21	30	LAB	M	0810-1100AM	CHUNG 128
EE	**EE 115**	1	60	LEC	TR	0810-0930AM	
EE	**EE 115**	22	30	LAB	W	0810-1100AM	CHUNG 128
EE	**EE 128**	21	30	LAB	R	0610-0900PM	CHUNG 128
EE	**EE 128**	1	60	LEC	TR	0210-0330PM	
EE	**EE 128**	22	30	LAB	W	0210-0500PM	CHUNG 128
EE	**EE 133**		50	DIS	M	0510-0600PM	
EE	**EE 133**	1	50	LEC	TR	0210-0330PM	
EE	**EE 138**	1	50	LEC	MWF	0110-0200PM	
EE	**EE 138**		50	DIS	T	0510-0600PM	
EE	**EE 139**	1	50	LEC	TR	0940-1100AM	
EE	**EE 139**		50	DIS			
EE	**EE 141**	22	30	LAB	F	0810-1100AM	CHUNG 125
EE	**EE 141**	1	60	LEC	TR	1240-0200PM	
EE	**EE 141**	21	30	LAB	W	0610-0900PM	CHUNG 125
EE	**EE 175A**	21	30	LAB	F	0210-0500PM	CHUNG 128
EE	**EE 175A**	22	30	LAB	F	0210-0500PM	CHUNG 121
EE	**EE 175A**	23	30	LAB	F	0810-1100AM	CHUNG 125
EE	**EE 175A**	1	90	LEC	F	1210-0100PM	
EE	**EE/CS 120A**	23	30	LAB	MW	0210-0500PM	CHUNG 125
EE	**EE/CS 120A**	22	30	LAB	TR	0610-0900PM	CHUNG 125
EE	**EE/CS 120A**	21	30	LAB	TR	0810-1100AM	CHUNG 125
EE	**EE/CS 120A**	1	120	LEC	TR	1110-1230PM	
EE	**EE/CS 120A**	*24*	*30*	*LAB*			*CHUNG 125*
ENGR	**ENGR 001G**	1	100	ACT	M	0410-0500PM	
ENGR	**ENGR 001I**	1	80	ACT	M	0410-0500PM	
ENGR	**ENGR 001M**	1	20	ACT	M	0410-0500PM	
ENGR	**ENGR 101G**	1	35	ACT	M	0410-0500PM	
ENGR	**ENGR 101I**	1	50	ACT	M	0410-0500PM	
ENGR	**ENGR 101M**	1	15	ACT	M	0410-0500PM	
ENGR	**ENGR 108**	1	250	LEC	TR	0810-0930AM	
ENGR	**ENGR 118**	22	60	DIS	R	0610-0700PM	
ENGR	**ENGR 118**	21	60	DIS	T	0610-0700PM	
ENGR	**ENGR 118**	1	120	LEC	TR	0340-0530PM	
ENGR	**ENGR 160**	1	50	LEC	TR	1110-1230PM	
ENGR	**ENGR 160**		50	DIS	W	0510-0600PM	
ENGR	**ENGR 180W**	23	24	WKP	R	0640-0930PM	CHUNG 132
ENGR	**ENGR 180W**	21	24	WKP	T	0640-0930PM	CHUNG 132
ENGR	**ENGR 180W**	22	24	WKP	T	0640-0930PM	CHUNG 133
ENGR	**ENGR 180W**	1	72	LEC	TR	0510-0630PM	
CEE	**ENVE 120**		50	DIS	F	1210-0100PM	
CEE	**ENVE 120**	1	50	LEC	MWF	0210-0300PM	
CEE	**ENVE 145**		35	DIS	M	0810-0900AM	

CEE	**ENVE 145**	1	35	LEC	TR	0340-0500PM	
CEE	**ENVE 160B**	1	45	LAB	TR	1110-0200PM	BRNHL B134
CEE	**ENVE 171**		60	DIS	M	0510-0600PM	
CEE	**ENVE 171**	1	60	LEC	MWF	0210-0300PM	
CSE	**MATH/CS 011**	3	30	DIS	F	0110-0200PM	
CSE	**MATH/CS 011**	2	30	DIS	F	1110-1200PM	
CSE	**MATH/CS 011**	1	60	LEC	TR	0810-0930AM	
ME	**ME 100A**	21	90	DIS	T	0410-0500PM	
ME	**ME 100A**	22	90	DIS	T	0510-0600PM	
ME	**ME 100A**	1	180	LEC	TR	1110-1230PM	
ME	**ME 103**	21	90	DIS	T	0410-0500PM	
ME	**ME 103**	1	180	LEC	TR	0210-0330PM	
ME	**ME 103**	22	90	DIS	W	0610-0700PM	
ME	**ME 114**	*23*	*60*	*DIS*	*F*	*0910-1000AM*	
ME	**ME 114**	21	60	DIS	R	0810-0900AM	
ME	**ME 114**	22	60	DIS	R	1010-1100AM	
ME	**ME 114**	1	180	LEC	TR	0340-0500PM	
ME	**ME 135**	21	70	DIS	M	0410-0500PM	
ME	**ME 135**	22	70	DIS	M	0910-1000AM	
ME	**ME 135**	1	140	LEC	TR	0340-0500PM	
ME	**ME 136**		30	DIS	F	0110-0200PM	
ME	**ME 136**	1	30	LEC	TR	1110-1230PM	
ME	**ME 138**		30	DIS	R	0510-0600PM	
ME	**ME 138**	1	30	LEC	TR	0340-0500PM	
ME	**ME 156**	21	25	LAB	M	0310-0500PM	
ME	**ME 156**	1	50	LEC	MWF	0210-0300PM	
ME	**ME 156**	22	25	LAB	W	0310-0500PM	
ME	**ME 170B**	21	125	DIS	F	0310-0500PM	
ME	**ME 170B**	3	25	LAB	MW	1110-0200PM	BRNHL B213AA
ME	**ME 170B**	5	25	LAB	RF	0610-0900PM	BRNHL B213AA
ME	**ME 170B**	1	25	LAB	TR	0810-1100AM	BRNHL B213AA
ME	**ME 170B**	2	25	LAB	TR	1110-0200PM	BRNHL B213AA
ME	**ME 170B**	4	25	LAB	WF	0810-1100AM	BRNHL B213AA
ME	**ME 175A**	1	120	LEC	W	0310-0500PM	
ME	**ME 175B**	21	30	LAB	M	0610-0900PM	BRNHL B213AA
ME	**ME 175B**	1	60	LEC	W	0510-0700PM	
ME	**ME 175B**	22	30	LAB	W	0710-1000PM	BRNHL B213AA
ME	**ME 176**		30	DIS	F	1110-1200PM	
ME	**ME 176**	1	30	LEC	TR	0210-0330PM	
ME	**ME 18**	23	30	LAB	M	0610-0900PM	BRNHL B207
ME	**ME 18**	21	30	LAB	M	0810-1100AM	BRNHL B207
ME	**ME 18**	22	30	LAB	M	1110-0200PM	BRNHL B207
ME	**ME 18**	1	210	LEC	MWF	0410-0500PM	
ME	**ME 18**	*26*	*30*	*LAB*	*T*	*0610-0900PM*	*BRNHL B207*
ME	**ME 18**	24	30	LAB	T	0810-1100AM	BRNHL B207
ME	**ME 18**	*25*	*30*	*LAB*	*T*	*1110-0200PM*	*BRNHL B207*
ME	**ME 18**	*27*	*30*	*LAB*	*W*	*0810-1100AM*	*BRNHL B207*
MSE	**MSE 161**		30	LAB	TBA	TBA	TBA
MSE	**MSE 161**	1	30	LEC	TR	1110-1230PM	

UNIVERSITY OF CALIFORNIA, RIVERSIDE
SPACE UTILIZATION SURVEY
September 29 & 30, 2014

- Introductions & Project Management Structure
- Project Overview
- Discovering Opportunities
- HGA's Space Utilization Philosophy
- Trends
- Methodology
- Your Participation
- Key Questions

Agenda



Project Management Structure

James Matson
Principal in Charge

Alyssa Scholz
Project Manager

Eric Chang
Project Coordinator

Jack Joyce
Programmer
Space Utilization & Analysis

Ena Murphy
Programmer
Space Utilization & Analysis

Douglas Lowe
Space Utilization & Analysis

Richard Heinz
Laboratory Planning

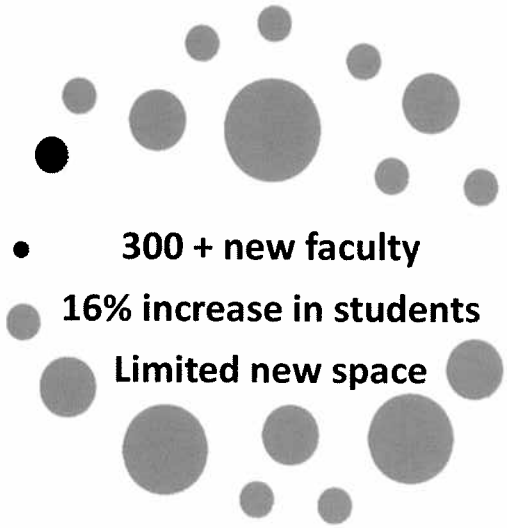
John Lewis
Laboratory Planning

HGA Project Team

Need	▪ Significant goals for quality growth ▪ Limited new resources for facilities
Objectives	▪ Guidelines and tools to increase efficiency ▪ Optimize current space use ▪ Plan for growth over the next five years ▪ Metrics and data to inform upcoming Physical Master Plan Study
Process	▪ Variety of tools and methodologies, including meetings, questionnaires, focus groups, walk-throughs, benchmarking, and research on trends
Timing	▪ Survey project to be completed by February 2015.

Project Overview

WHY?	See Space Differently	Outcome



- 300 + new faculty
- 16% increase in students
- Limited new space

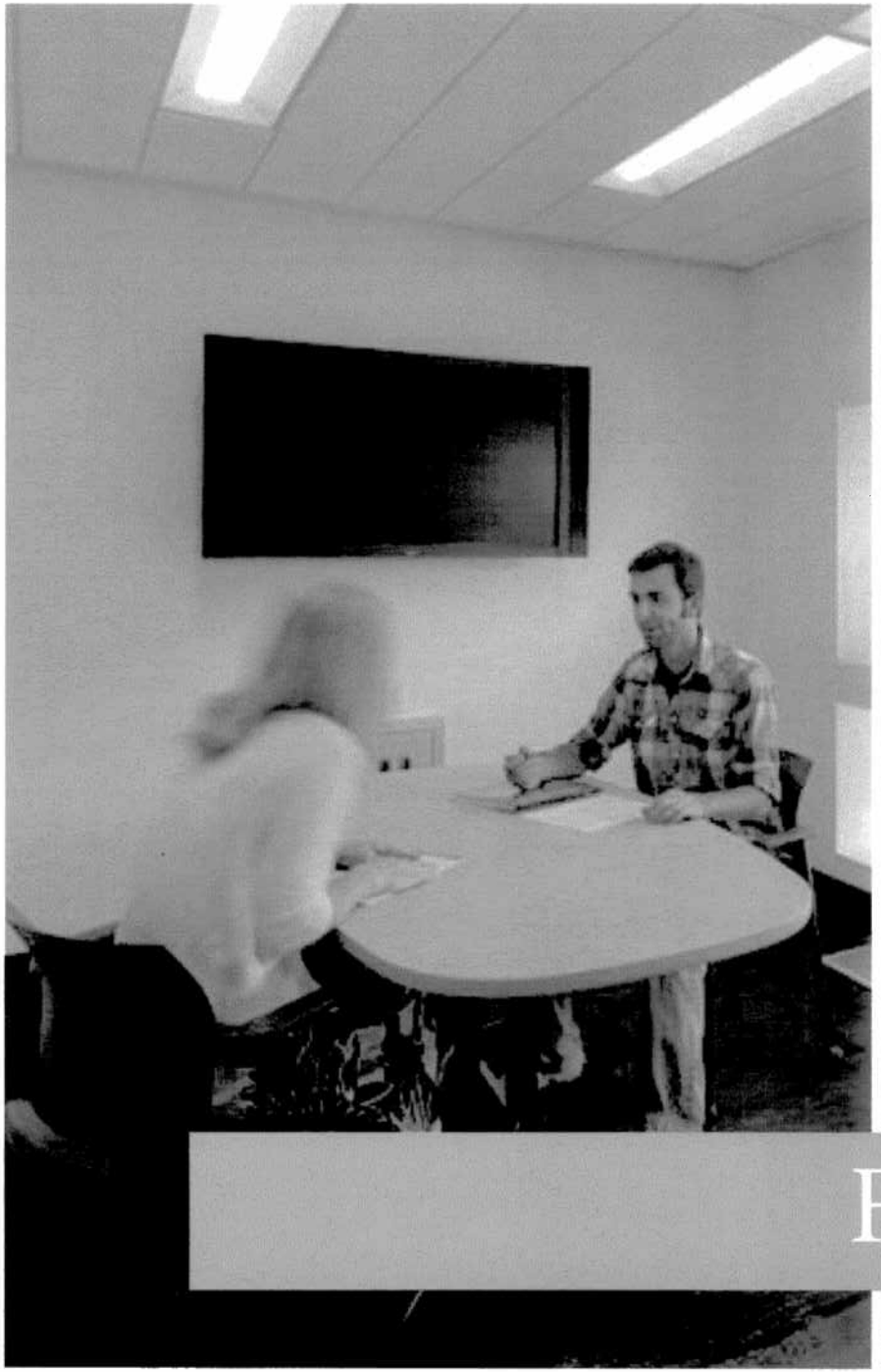
- Adopt guidelines following best practices
- Create tools and resources
- Look for opportunities

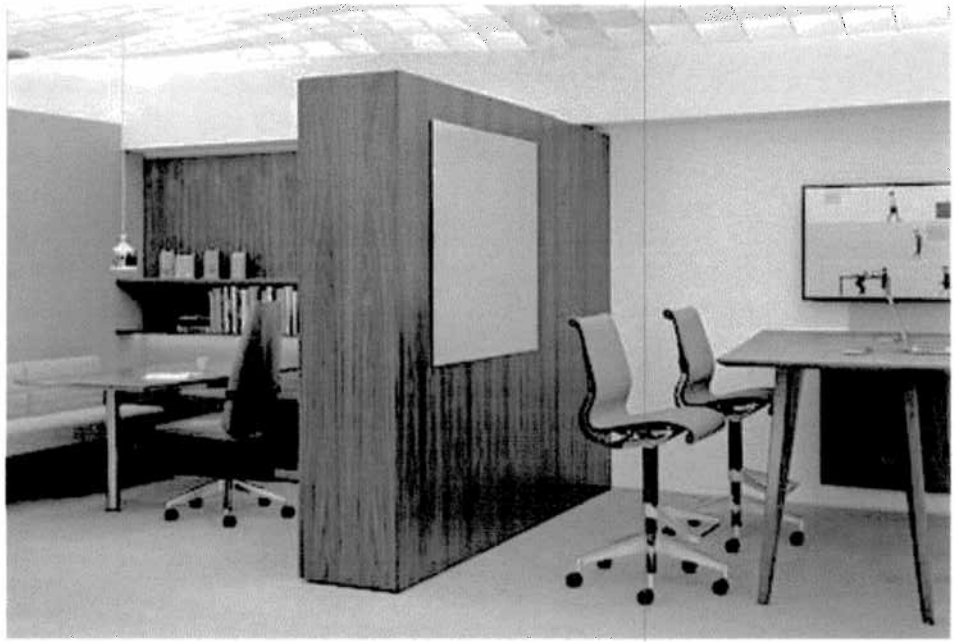
Holistic view of space on campus-wide basis

Discovering Opportunities

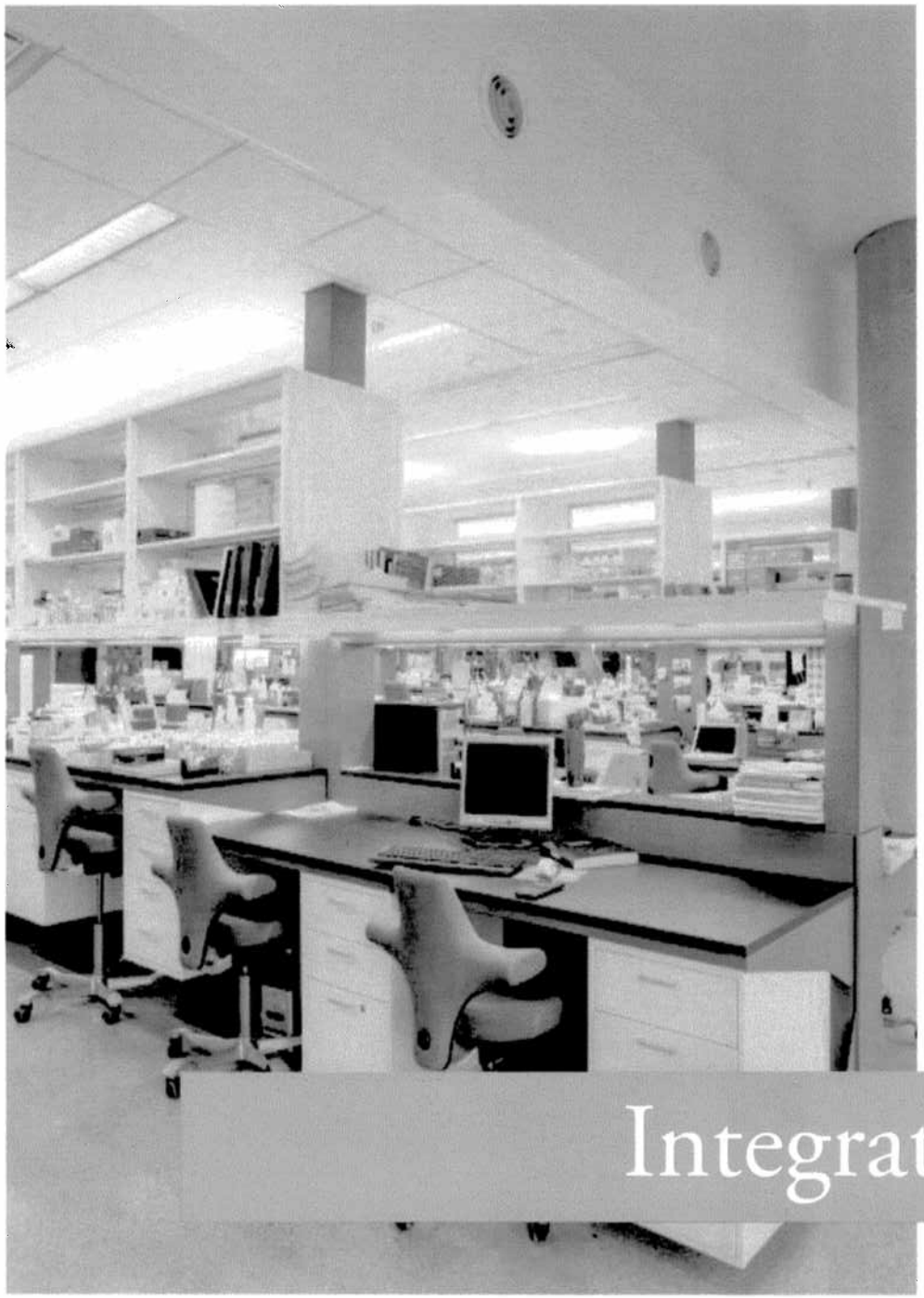

• Optimizing the potential for learning and research in the 21st Century
• Space is a powerful tool to enable research, learning and future pedagogies
Our Space Utilization Philosophy

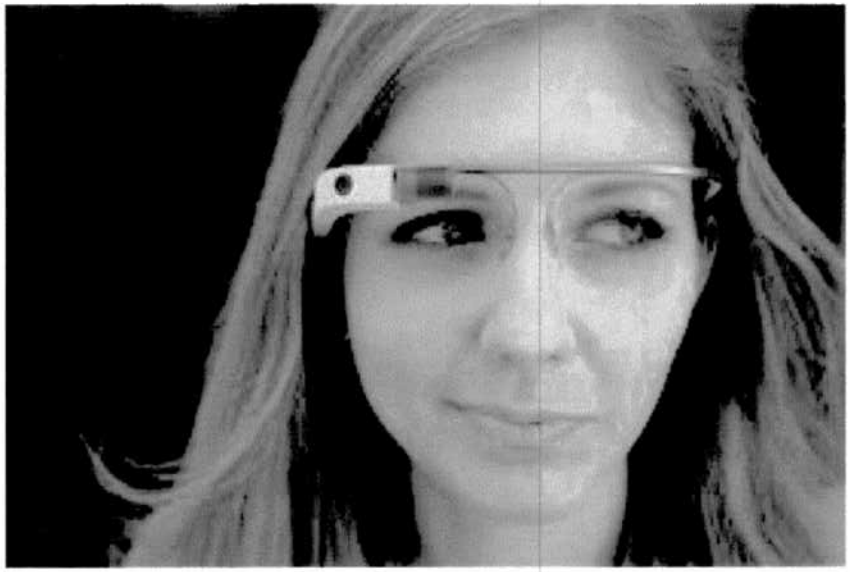
TRENDS – Collaboration



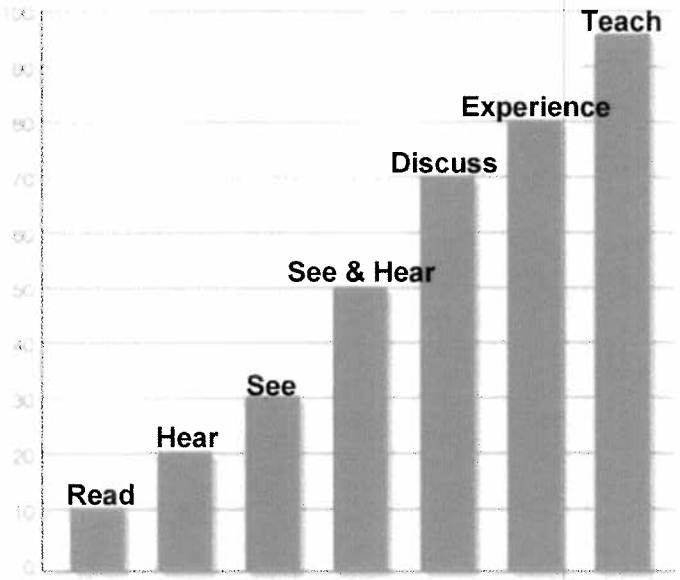


Faculty Office Trends





Integration of Technology



Teaching Pedagogy

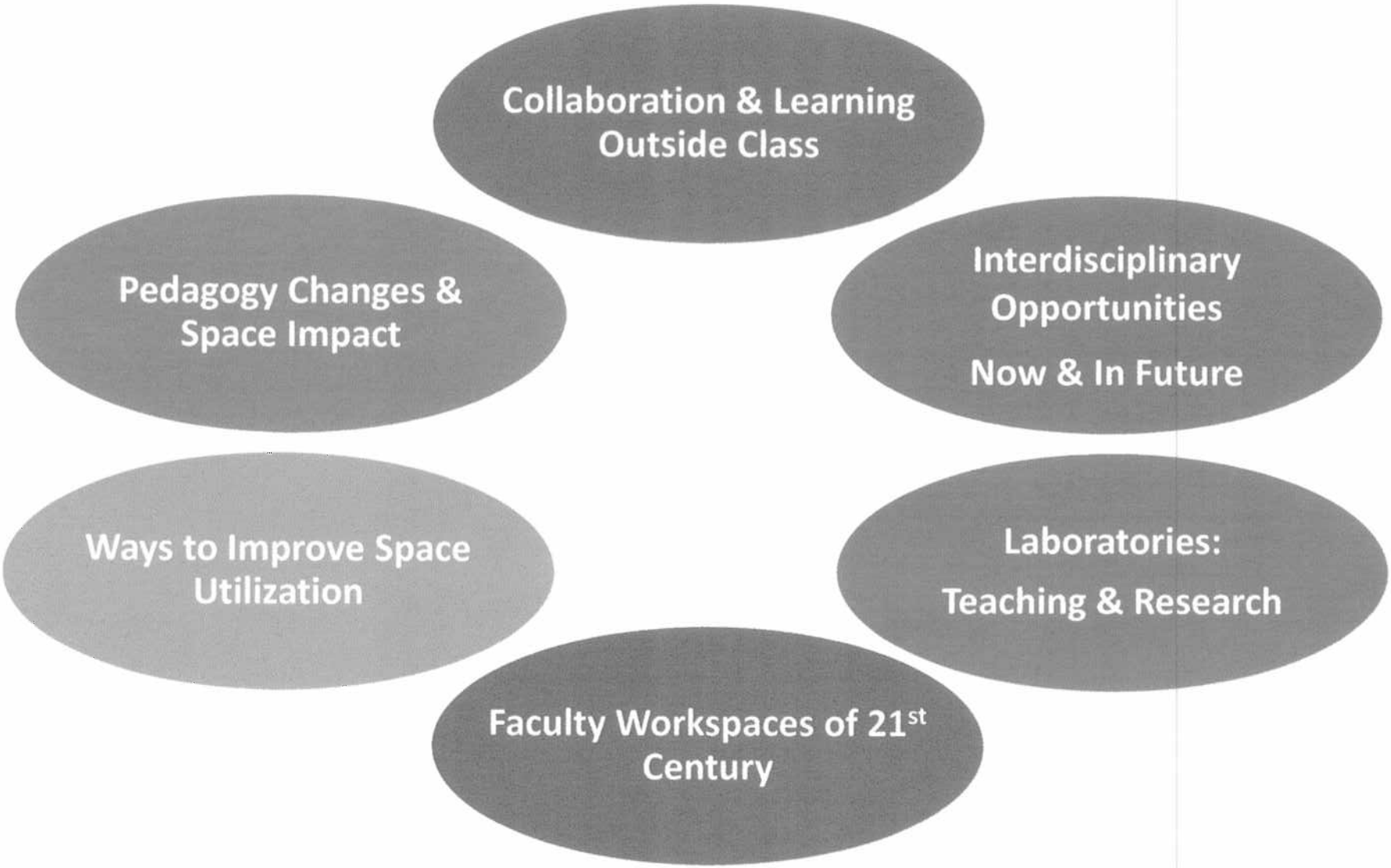
Qualitative

- Pilot Study
- Focus Groups
- Questionnaires
- Interviews & Walk-throughs

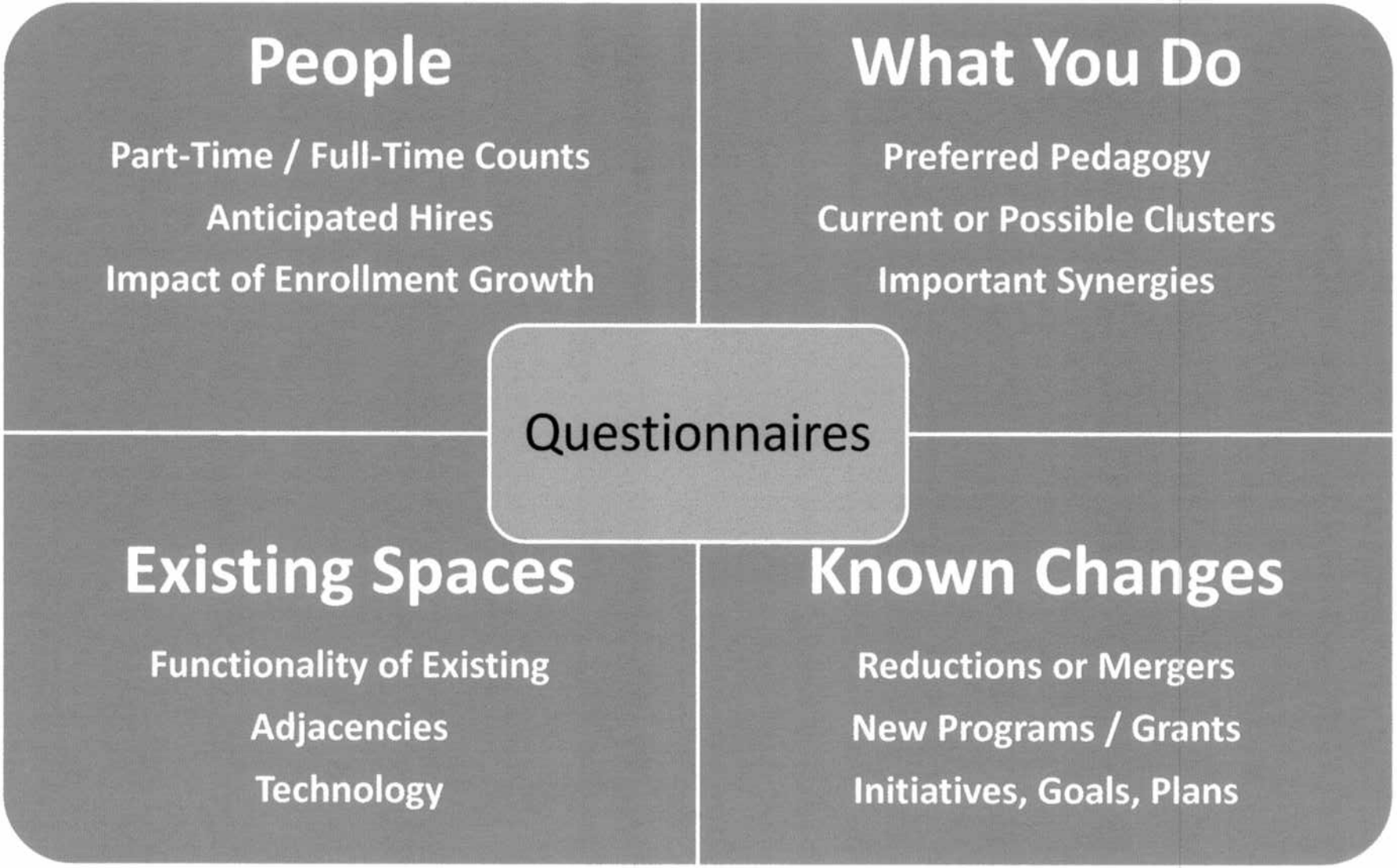
Quantitative

- Academic Plans & Research Expend.
- Class Schedule / Classroom, Lab Use
- Growth – Enrollment & Faculty /Staff
- Facility Data

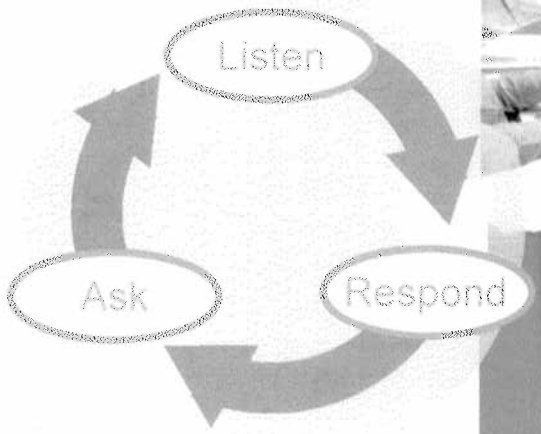
Methodology



Focus Groups

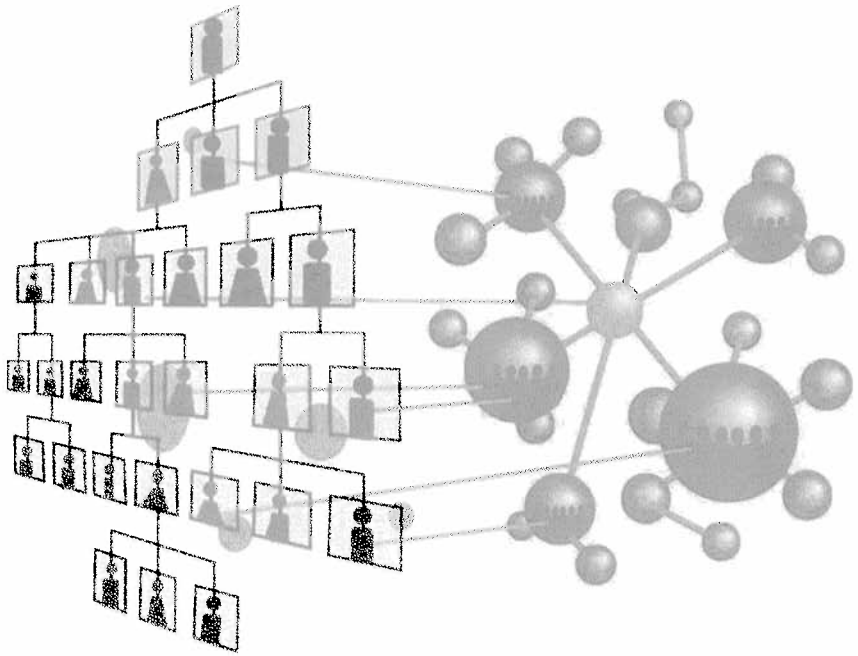


Methodology



Stakeholder Engagement


September
October
November
December
January
February
Visioning
Vice Chancellors & Deans
Pilot Study & Global Issues
Full Survey & Interviews
Meetings with Deans, Vice Chancellors & Department Heads
Analysis & Findings
Present Options
Executive Team, All Deans, & Senate Committee
Deliver Report
Your Participation



1. What are the biggest institutional space issues?

2. What will make this Survey a successful tool for current & future use?

Key Questions