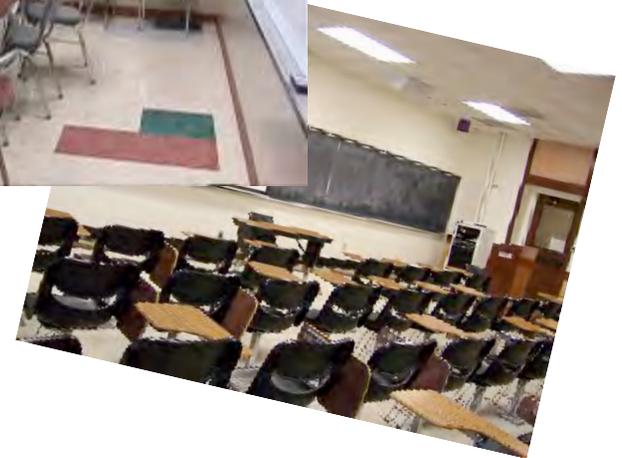


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# General Assignment Classroom Scheduling

April 19, 2010



# How many GA classrooms?

Room Capacity	Number of Rooms	North Campus	South Campus
10-19	23	21	2
20-39	79	53	26
40-59	39	21	18
60-99	21	11	10
100-149	17	13	4
150-199	6	3	3
200-299	6	2	4
300+	7	5	2
	<b>198</b>	<b>129</b>	<b>69</b>

Room Capacity	Percent	North Campus	South Campus
10-19	12%	11%	1%
20-39	40%	27%	13%
40-59	20%	11%	9%
60-99	11%	6%	5%
100-149	9%	7%	2%
150-199	3%	2%	2%
200-299	3%	1%	2%
300+	4%	3%	1%
	<b>100%</b>	<b>65%</b>	<b>35%</b>

- 198 GA Rooms
- Housed in 22 Buildings
- 85% used by College
- 15% used by Schools
- 65% on North Campus
- 35% on South Campus

(47 Department Classrooms)

# What media are installed?

---

- 100% have network and internet access
- 96% have video playback equipment
- 65% have installed data projectors
- 52% have voice amplification capability
- 42% have installed classroom computers
- 32% have streaming or podcasting capability
- 11% have installed 35mm slide projectors
- 5% have installed document cameras  
(4 out of 7 in classrooms >300)

# What plans are in the works?

---

- Optimize 3 or 4 small- to medium-sized rooms for distance learning
- Expand built-in BruinCast capabilities in many rooms
- Upgrade the largest rooms with multiple projectors and screens
- Expand the number of document cameras to eventually replace overhead projectors

# How is the *Schedule* built?

---

- Term schedules built based on information from **faculty**
- **Data is entered into OASIS (mainframe) by schedulers**
- CASA (Computer Assisted Space Assignment) algorithm is run to place classes
- Infeasibles are rejected
- Schedulers check department proofs for unplaced classes
- Schedulers search for open rooms and times
- **Classes without rooms by publication are changed to TBA**
- Schedulers continue to search for open rooms

# What are the standard time blocks?

MWF and MTWRF Standard Time Patterns	TR Standard Time Patterns	TR, MW, MF, WF Non-Standard Time Patterns
8:00 – 8:50	8:00 – 9:15	8:00 – 9:50
9:00 – 9:50	9:30 – 10:45	2:00 – 3:50
10:00 – 10:50	11:00 – 12:15	4:00 – 5:50
11:00 – 11:50	12:30 – 1:45	<p><b>Note:</b> Two-hour patterns do not have priority placement in CASA. If two-hour, two-day patterns are used, these are the times most likely to be scheduled.</p>
12:00 – 12:50	2:00 – 3:15	
1:00 – 1:50	3:30 – 4:45	
2:00 – 2:50		
3:00 – 3:50		
4:00 – 4:50		

Questions? Call the Scheduling Coordinators, Doug Thomson and Janet Bartholomew (51441) or e-mail [schedule@registrar.ucla.edu](mailto:schedule@registrar.ucla.edu)

**Primary classes such as lecture sections are placed first.**

**Secondary discussion sections placed after primaries.**

**CASA gives priority to standard time blocks.**

## What is the department Proof?

### Schedule of Classes Department Proof

Term

Spring 2010  
Winter 2010

Department

Aerospace Studies  
African Studies  
Afro-American Studies  
American Indian Studies  
Anesthesiology  
Anthropology

Classes without rooms by publication are changed to TBA

M179A	TPCS-AFRO-AMRCN LIT SAME AS: ENGL M179A RESTRICTION: AFRO-AMERICAN MAJOR OR MINOR	Y	N	SEM 001	W	12:00P - 2:50P	ROLFE	3131	13	STREETER, C.A.	8	5	30
	TPCS-AFRO-AMRCN LIT Harlem Renaissance SAME AS: ENGL M179A RESTRICTION: AFRO-AMERICAN MAJOR OR MINOR	Y	N	SEM 002	W	3:00P - 5:50P	HUMANTS	A56	20	YARBOROUGH, R.A.	6	5	09
	TPCS-AFRO-AMRCN LIT Passing: Race, Identity, and Co* SAME AS: ENGL M179A RESTRICTION: AFRO-AMERICAN MAJOR OR MINOR	Y	N	SEM 003	W	3:00P - 5:50P	HUMANTS	A60	20	GOYAL, Y.	7	0	30
188A	SPECIAL COURSES Economic Creativities in Africa*		N	SEM 001	TBA	0:00A - 0:00A			TBD	NIDA, W.	30	10	30

**TBA 0:00 – 0:00A**

<http://web.registrar.ucla.edu/socproof/>

# What are the deadlines?

<b>Schedule of Classes</b>	<b>Winter 2010 Issue</b>	<b>Spring 2010 Issue</b>	<b>Fall 2010 Issue</b>
Deadline to receive approved course forms	Oct. 2	Jan. 8, 2010	May 14
Deadline to return updated <i>Schedule</i> text	Oct. 2	Jan. 8	May 14
Editing of <i>Schedule</i> text	Oct. 5 – 16	Jan. 11 – 22	May 17 – 28
Proofing of class listings by departments	Oct. 8 – 9	Jan. 14 – 15	May 20 – 21
Deadline for departments to e-mail course notes (placement exams & mandatory midterm dates)	Oct. 12	Jan. 19	May 24
Course changes entered by depts & scheduling	Oct. 12 – 14	Jan. 19	May 24 – 25
Department access cutoff	Oct. 16	Jan. 22	May 28
Resolve class conflicts	Oct. 16	Jan. 22	May 28
Deadline to receive approval memo for course-based fees (e.g., Course Materials fees, IEI fees)	Oct. 16	Jan. 22	May 28
Unplaced classes changed to TBA	Oct. 19	Jan. 25	Jun. 1
Download class listings for PDF <i>Schedule</i> (noon)	Oct. 21	Jan. 27	Jun. 2
Conversion of <i>Schedule</i> to PDF	Oct. 22 – 23	Jan. 28 – 29	Jun. 3 – 4
<i>Schedule</i> on web (HTML & PDF) 8 a.m.	Wed. Oct. 28, 2009	Mon. Feb. 1, 2010	Mon. Jun. 7, 2010
Enrollment appointment times available URSA	Oct. 28	Feb. 3	Jun. 9
<b>URSA enrollment begins</b>	<b>Nov. 10, 2009</b>	<b>Feb. 16, 2010</b>	<b>June 21, 2010</b>

<http://www.registrar.ucla.edu/facultystaff/productioncal.pdf>

## What are priority rooms?

Fall 2009

[Back to Search Page](#)

WGYoung CS50 Capacity: 352 Room Use (8:00A-5:00P): 89%

General Assignment Classroom

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00A	CHEM 14D LEC 1	CHEM 14BL LEC 1	CHEM 14D LEC 1	CHEM 14CL LEC 1	CHEM 14D LEC 1
8:30A	Enr: 318 of 350 8:00A - 8:50A	Enr:208 of 0 8:00A - 8:50A	Enr: 318 of 350 8:00A - 8:50A	Enr:212 of 0 8:00A - 8:50A	Enr: 318 of 350 8:00A - 8:50A
9:00A	CHEM 14C LEC 1		CHEM 14C LEC 1		CHEM 14C LEC 1
9:30A	Enr:381 of 0 9:00A - 9:50A	PSYCH 127 LEC 1	Enr:381 of 0 9:00A - 9:50A	PSYCH 127 LEC 1	Enr:381 of 0 9:00A - 9:50A
10:00A	CHEM 14A LEC 1	Enr: 343 of 0 9:30A - 10:45A	CHEM 14A LEC 1	Enr: 343 of 0 9:30A - 10:45A	CHEM 14A LEC 1
10:30A	Enr:355 of 389 10:00A - 10:50A		Enr:355 of 389 10:00A - 10:50A		Enr:355 of 389 10:00A - 10:50A
11:00A	MATH 33A LEC 2	CHEM 153L LEC 1	MATH 33A LEC 2	CHEM 153L LEC 1	MATH 33A LEC 2
11:30A	Enr:199 of 180 11:00A - 11:50A	Enr: 285 of 0 11:00A - 11:50A	Enr:199 of 180 11:00A - 11:50A	Enr: 285 of 0 11:00A - 11:50A	Enr:199 of 180 11:00A - 11:50A
12:00P	CHEM 14A LEC 2		CHEM 14A LEC 2		CHEM 14A LEC 2
12:30P	Enr:364 of 389 12:00P - 12:50P	PSYCH 129E LEC 1	Enr:364 of 389 12:00P - 12:50P	PSYCH 129E LEC 1	Enr:364 of 389 12:00P - 12:50P
1:00P	CHEM 20A LEC 3	Enr: 336 of 0 12:30P - 1:45P	CHEM 20A LEC 3	Enr: 336 of 0 12:30P - 1:45P	CHEM 20A LEC 3
1:30P	Enr: 330 of 350 1:00P - 1:50P		Enr: 330 of 350 1:00P - 1:50P		Enr: 330 of 350 1:00P - 1:50P
2:00P	CHEM 14A LEC 3	PHY SCI 107 LEC 1	CHEM 14A LEC 3	PHY SCI 107 LEC 1	CHEM 14A LEC 3
2:30P	Enr:363 of 389 2:00P - 2:50P	Enr: 283 of 220 2:00P - 3:50P	Enr:363 of 389 2:00P - 2:50P	Enr: 283 of 220 2:00P - 3:50P	Enr:363 of 389 2:00P - 2:50P
3:00P	CHEM 171 LEC 1		CHEM 171 LEC 1		CHEM 171 LEC 1
3:30P	Enr:212 of 200 3:00P - 3:50P		Enr:212 of 200 3:00P - 3:50P		Enr:212 of 200 3:00P - 3:50P
4:00P	CHEM 189 SEM 1				CHEM 189 SEM 1
4:30P	Enr:41 of 20 4:00P - 4:50P				Enr:41 of 20 4:00P - 4:50P
5:00P					

Some departments are given priority to scheduling a room if they have a large number of courses, agree to use standard time blocks, and schedule throughout the day.

Scheduling is then opened for CASA placement.



# How does north and south campus scheduling differ?

## Large Auditoria

### South Campus

### North Campus

**Fall 2009** [Back to Search Page](#)  
**WG YOUNG CS50 Capacity: 352 Room Use (8:00A-5:00P): 89%**  
**General Assignment Classroom**

Characteristics: Air conditioning, Mono capabilities-installed, Auditorium setting, Chalkboard, Comp projector(1024x768)-installed, Gacnet - backbone hookup, Media equipment, Microphone-installed, Wireless microphone-installed, Overhead projector-installed, Projection screen, Vhs deck-installed, Video projector-installed

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00A	CHEM 14D LEC 1	CHEM 14BL LEC 1	CHEM 14D LEC 1	CHEM 14CL LEC 1	CHEM 14D LEC 1
8:30A	Enr: 318 of 350 8:00A - 8:50A	Enr:208 of 0 8:00A - 8:50A	Enr: 318 of 350 8:00A - 8:50A	Enr:212 of 0 8:00A - 8:50A	Enr: 318 of 350 8:00A - 8:50A
9:00A	CHEM 14C LEC 1		CHEM 14C LEC 1		CHEM 14C LEC 1
9:30A	Enr:381 of 0 9:00A - 9:50A	PSYCH 127 LEC 1	Enr:381 of 0 9:00A - 9:50A	PSYCH 127 LEC 1	Enr:381 of 0 9:00A - 9:50A
10:00A	CHEM 14A LEC 1	Enr: 343 of 0 9:30A - 10:45A	CHEM 14A LEC 1	Enr: 343 of 0 9:30A - 10:45A	CHEM 14A LEC 1
10:30A	Enr:355 of 389 10:00A - 10:50A		Enr:355 of 389 10:00A - 10:50A		Enr:355 of 389 10:00A - 10:50A
11:00A	MATH 33A LEC 2	CHEM 153L LEC 1	MATH 33A LEC 2	CHEM 153L LEC 1	MATH 33A LEC 2
11:30A	Enr:199 of 180 11:00A - 11:50A	Enr: 285 of 0 11:00A - 11:50A	Enr:199 of 180 11:00A - 11:50A	Enr: 285 of 0 11:00A - 11:50A	Enr:199 of 180 11:00A - 11:50A
12:00P	CHEM 14A LEC 2		CHEM 14A LEC 2		CHEM 14A LEC 2
12:30P	Enr:364 of 389 12:00P - 12:50P	PSYCH 129E LEC 1	Enr:364 of 389 12:00P - 12:50P	PSYCH 129E LEC 1	Enr:364 of 389 12:00P - 12:50P
1:00P	CHEM 20A LEC 3	Enr: 336 of 0 12:30P - 1:45P	CHEM 20A LEC 3	Enr: 336 of 0 12:30P - 1:45P	CHEM 20A LEC 3
1:30P	Enr: 330 of 350 1:00P - 1:50P		Enr: 330 of 350 1:00P - 1:50P		Enr: 330 of 350 1:00P - 1:50P
2:00P	CHEM 14A LEC 3	PHY SCI 107 LEC 1	CHEM 14A LEC 3	PHY SCI 107 LEC 1	CHEM 14A LEC 3
2:30P	Enr:363 of 389 2:00P - 2:50P	Enr: 283 of 220 2:00P - 3:50P	Enr:363 of 389 2:00P - 2:50P	Enr: 283 of 220 2:00P - 3:50P	Enr:363 of 389 2:00P - 2:50P
3:00P	CHEM 171 LEC 1		CHEM 171 LEC 1		CHEM 171 LEC 1
3:30P	Enr:212 of 200 3:00P - 3:50P		Enr:212 of 200 3:00P - 3:50P		Enr:212 of 200 3:00P - 3:50P
4:00P	CHEM 189 SEM 1		CHEM 189 SEM 1		CHEM 189 SEM 1
4:30P	Enr:41 of 20 4:00P - 4:50P		Enr:41 of 20 4:00P - 4:50P		Enr:41 of 20 4:00P - 4:50P
5:00P					
5:30P					

**Fall 2009** [Back to Search Page](#)  
**DODD 147 Capacity: 366 Room Use (8:00A-5:00P): 71%**  
**General Assignment Classroom**

Characteristics: 16mm projector, Air conditioning, Stereo capabilities-installed, Auditorium setting, Chalkboard, Comp projector(1024x768)-installed, Gacnet - backbone hookup, Media equipment, Microphone-installed, Wireless microphone-installed, Overhead projector-installed, Projection screen, Installed 35mm slide projector, Stage, Vhs deck-installed, Video projector-installed

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00A					
8:30A					
9:00A	CLASSIC 20 LEC 1		CLASSIC 20 LEC 1		CLASSIC 20 LEC 1
9:30A	Enr: 297 of 300 9:00A - 9:50A	SE A ST 1 LEC 1	Enr: 297 of 300 9:00A - 9:50A	SE A ST 1 LEC 1	Enr: 297 of 300 9:00A - 9:50A
10:00A	PHILOS 31 LEC 1	Enr:211 of 225 9:30A - 10:45A	PHILOS 7 LEC 1	Enr:211 of 225 9:30A - 10:45A	PHILOS 7 LEC 1
10:30A	Enr:180 of 269 10:00A - 11:50A		Enr:370 of 0 10:00A - 11:50A		Enr:370 of 0 10:00A - 11:50A
11:00A		ART HIS 56A LEC 1		ART HIS 56A LEC 1	
11:30A		Enr:226 of 225 11:00A - 12:15P		Enr:226 of 225 11:00A - 12:15P	
12:00P	AFRO-AM M5 LEC 1		AFRO-AM M5 LEC 1		
12:30P	Enr:162 of 150 12:00P - 1:50P	POL SCI 40 LEC 1	Enr:162 of 150 12:00P - 1:50P	POL SCI 40 LEC 1	
1:00P		Enr: 361 of 357 12:30P - 1:45P		Enr: 361 of 357 12:30P - 1:45P	
1:30P					
2:00P	GEOG 5 LEC 1	ART HIS 54 LEC 1	GEOG 5 LEC 1	ART HIS 54 LEC 1	
2:30P	Enr: 287 of 250 2:00P - 3:15P	Enr: 257 of 270 2:00P - 3:15P	Enr: 287 of 250 2:00P - 3:15P	Enr: 257 of 270 2:00P - 3:15P	
3:00P					
3:30P		ECON 130 LEC 1		ECON 130 LEC 1	
4:00P		Enr:219 of 225 3:30P - 4:45P		Enr:219 of 225 3:30P - 4:45P	
4:30P		FILM TV 188B LEC 1		FILM TV 188B LEC 1	
5:00P		Enr:210 of 220 4:00P - 6:50P		Enr:210 of 220 4:00P - 6:50P	
5:30P					

When standard time blocks are used, more classes can be scheduled in prime time.

# How was Fall 09 scheduling affected by the budget cuts?

---

- **Departments got bridge funding decisions late**
- Scramble to get enough “gateway” class for Orientation
- Classes were cancelled or added late
- Classes became larger and room switches were difficult for already published rooms and times
- Some schedulers couldn't get data from faculty by deadlines
- Some schedulers couldn't meet the deadlines because of workload issues
- Too many cluster courses scheduled on main campus

# What factors affect scheduling?

---

- ❖ Increased admissions
- ❖ North/South teaching patterns (Single day, MWF, MW, TTh)
- ❖ Afternoon graduate classes (conflicts with TA discussion sections)
- ❖ Afternoon South Campus labs
- ❖ Late addition of classes
- ❖ Remote location (Clusters)
- ❖ Prerequisites and co-requisites
- ❖ Offerings in the major
- ❖ New courses & requirements (capstones, Clusters, seminars)
- ❖ Review sessions and midterm scheduling outside class hours
- ❖ Faculty colloquia and department meetings
- ❖ Room switches
- ❖ Media needs and room capability
- ❖ Classroom maintenance
- ❖ Commuting in a metro area
- ❖ Child/Elder care issues
- ❖ Student outside job obligations
- ❖ Concurrent UNEX students (1,200 students per term not counted in class enrollment data)

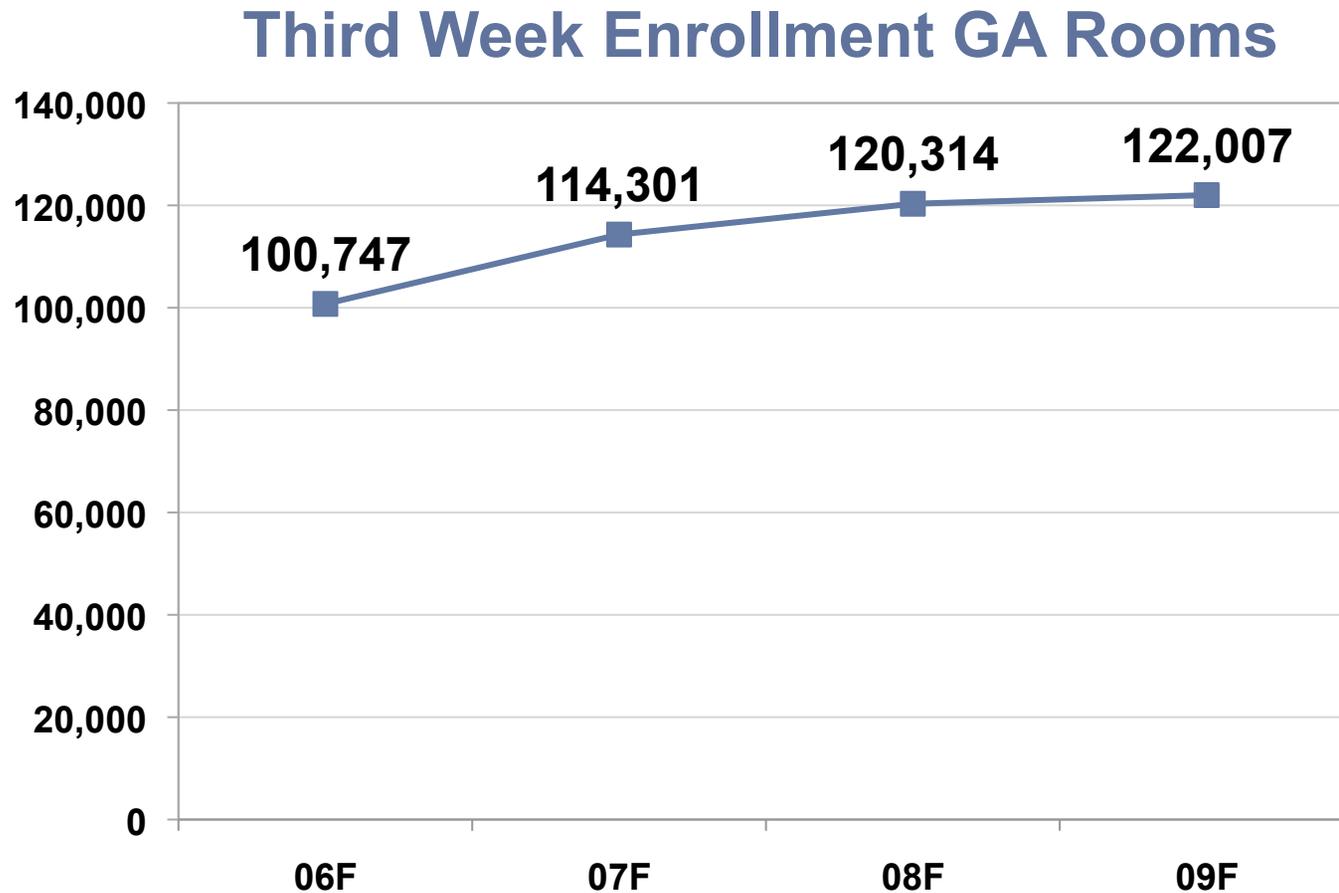
- ❖ Plan classes for the year
- ❖ Use standard time blocks
- ❖ Don't bunch classes in prime time
- ❖ Get data to schedulers by deadlines
- ❖ Don't over-enroll classes beyond room capacity
- ❖ Coordinate midterm scheduling among departments

# How many undergraduates?

## Undergraduate Headcount by Quarter -- Fall 2005 to Estimated Spring 2010

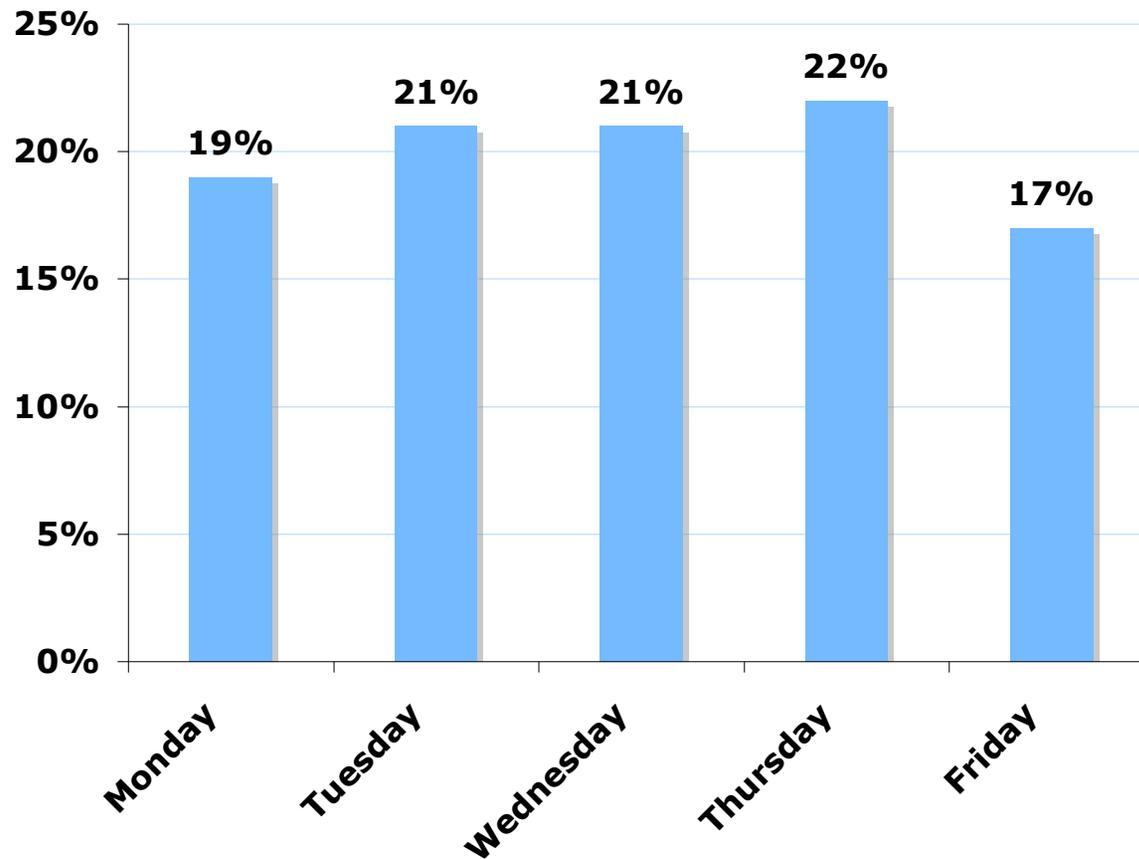
TERM	COLLEGE	SEAS	SOAA	TFT	NURS	TOTAL
<b>05F</b>	21,359	2,269	836	310	37	<b>24,811</b>
<b>06F</b>	21,866	2,313	844	314	94	<b>25,431</b>
<b>07F</b>	21,745	2,784	890	361	148	<b>25,928</b>
<b>08F</b>	22,008	3,013	945	368	202	<b>26,536</b>
<b>09F</b>	21,916	3,205	951	370	245	<b>26,687</b>
<b>Increase</b>	<b>3%</b>	<b>41%</b>	<b>14%</b>	<b>19%</b>	<b>562%</b>	<b>8%</b>
<b>Students</b>	<b>557</b>	<b>936</b>	<b>115</b>	<b>60</b>	<b>208</b>	<b>1,876</b>

# How many enrollments?



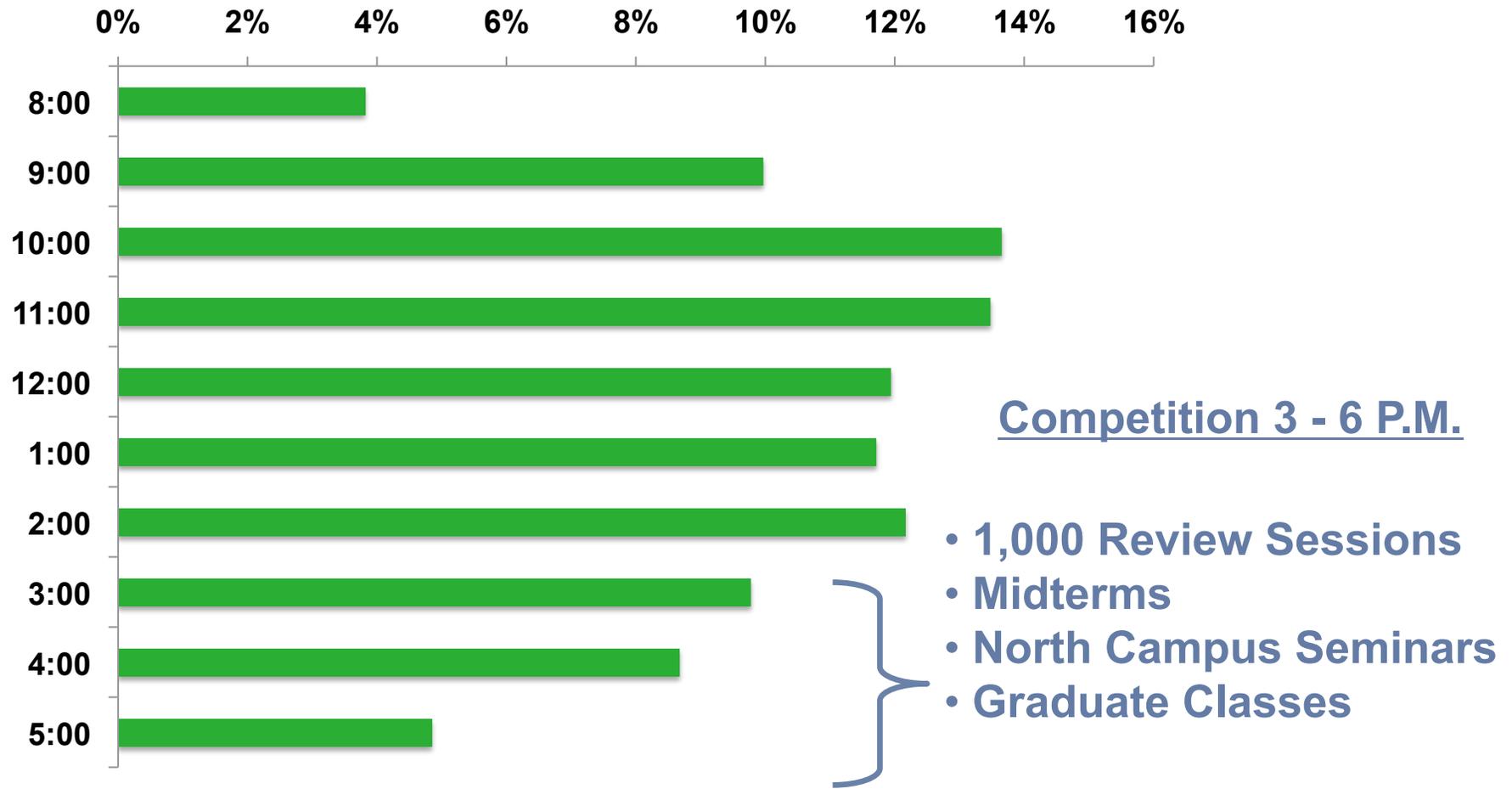
# What's the daily spread?

## GA Classrooms/Days of the Week Three-Year Fall Average



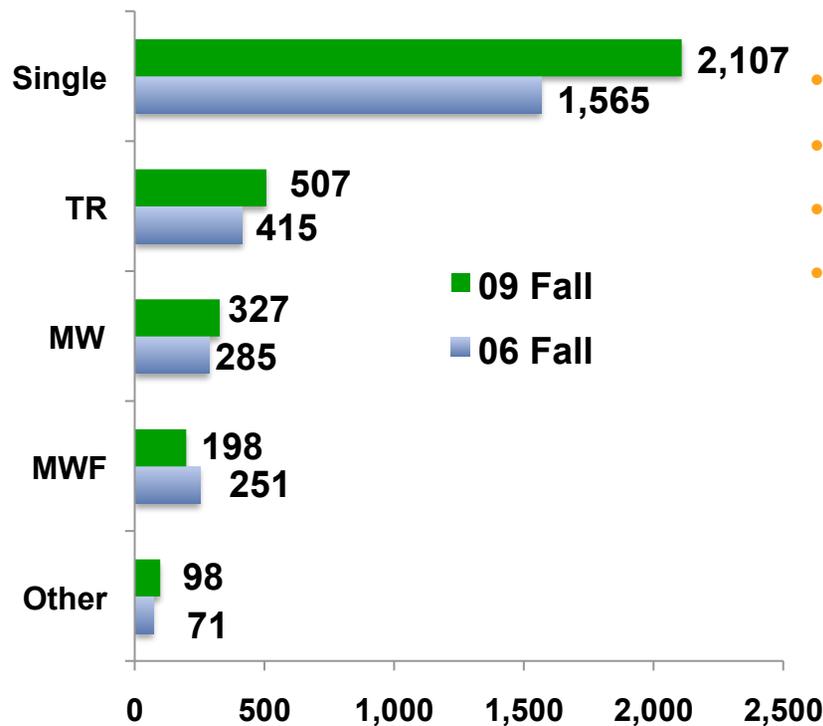
## What's the hourly spread?

### Class Scheduling by Hour: Fall 2007



# What are the daily patterns in GA rooms?

## Predominant Teaching Patterns: Fall 2006 vs. 2009



- More Single-Day Classes (09F = 65%)
- More Tuesday/Thursday Classes (09F = 16%)
- More Monday/Wednesday Classes (09F = 10%)
- Fewer Monday/Wednesday Friday (09F = 6%)

### Single Day Classes Include

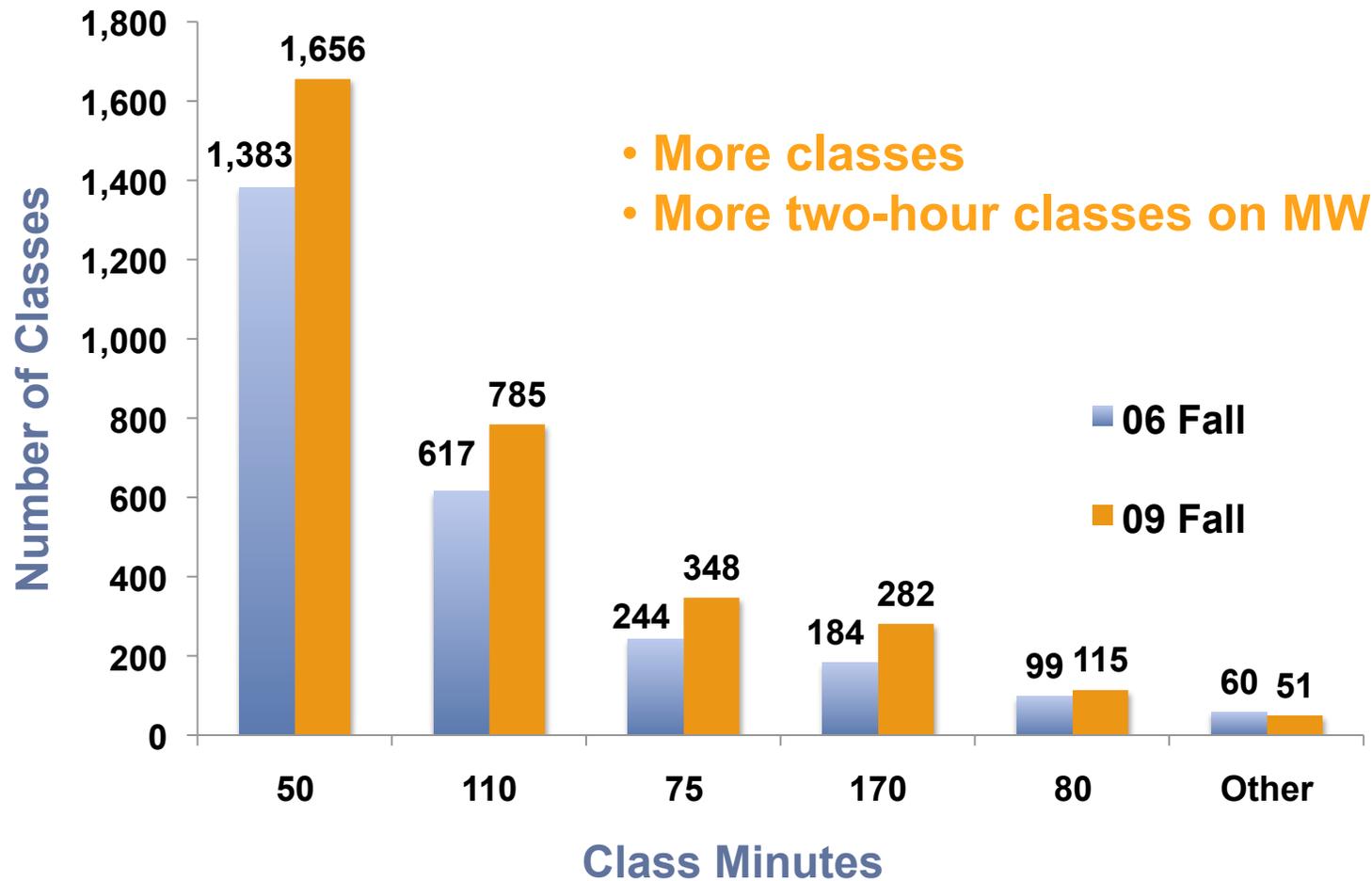
- North Campus Seminars
- Three-hour Graduate classes
- Two-hour discussion sections
- One-hour discussion sections

### Number of Classes

Fall 2009 = 3,237

Fall 2006 = 2,587

## How many minutes per class?



# How many GA rooms are used?

## Fall 2007 Room Use by Hour in All GA Rooms

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>8:00</b>	17%	27%	21%	29%	17%
<b>9:00</b>	48%	60%	59%	61%	60%
<b>10:00</b>	80%	77%	85%	77%	75%
<b>11:00</b>	77%	75%	81%	75%	81%
<b>12:00</b>	69%	70%	71%	66%	70%
<b>1:00</b>	63%	73%	64%	76%	63%
<b>2:00</b>	74%	73%	77%	79%	48%
<b>3:00</b>	57%	66%	61%	71%	28%
<b>4:00</b>	49%	58%	64%	68%	12%
<b>5:00</b>	33%	27%	43%	32%	5%

## Efficiency Standards

How much of a room's capacity is used  
(% of fill)

## Use Measures

Whether a room is in use at a particular  
time and day

50 hours per week (8a.m. - 6p.m.)

Monday - Friday

# Do we meet efficiency standards?

CPEC standard is 70% fill in 100% classrooms

✓ AACRAO standard is 66% fill in 70% of classrooms

Fall 2007: % of Seats Filled

Room Capacity	03F	04F	05F	06F	07F
1 to 15	49%	44%	44%	47%	46%
16 to 25	78%	82%	71%	76%	74%
26 to 50	68%	66%	60%	62%	62%
51 to 100	64%	63%	59%	59%	56%
101 to 200	70%	73%	69%	64%	68%
201 to 300	81%	76%	75%	68%	71%
301+	78%	83%	71%	71%	65%
	<b>71%</b>	<b>72%</b>	<b>66%</b>	<b>65%</b>	<b>65%</b>

**Yes**

# **General Assignment Classroom Scheduling**

**Questions?**

**Contact: Kathleen Copenhaver**  
**[kcopenhaver@registrar.ucla.edu](mailto:kcopenhaver@registrar.ucla.edu)**

**Scheduling Reports**

**<http://www.registrar.ucla.edu/facultystaff/rooms>**

**Scheduling Policies**

**<http://www.adminpolicies.ucla.edu/pdf/870.pdf>**