Introduction

This report contains statistical data about the media equipped general assignment classrooms at UCLA. It also presents information about the state of the classrooms, challenges and opportunites facing the Classroom Services unit, current and upcoming projects, and information about our procedures and equipment.

As of Spring 2004…

There are approximately 180 General Assignment Classrooms available for instruction. The number varies due to construction and maintenance.

- 100% of all general assignment classrooms have network and Internet access.
- 77% have installed video playback equipment, including
- 30% have installed data projection capability.
- 33% have installed slide projectors
- 8% have installed classroom computers

During the 2003-2004 Academic Year OID…

- installed more computers in classrooms.
- installed additional direct service telephones in media classrooms.
- completed the installation of projectors in six classrooms in Math Sciences.
- upgraded DVD players in classrooms to maximize ease of use.
- tested new technologies to enhance instruction.
- completed the beta testing phase of the new integrated classroom remote control and monitoring system.

During the 2004-2005 Academic Year OID will…

- complete media equipment installation in 9 classrooms in two newly constructed buildings: Physics and Astronomy and LaKretz Hall.
- complete media equipment installation in 2 classrooms in the renovated Kaufmann Hall.
- finish the upgrade to full media classroom status for 9 rooms in Math Sciences and Public Policy.
- upgrade a lecture hall in Franz Hall.
- participate in the planning and implementation of the new OID Training and Demonstration classroom in Powell Library.
- convert additional rooms to the new integrated classroom remote control and monitoring system.

Media Classroom Construction and Upgrades, 2004-2005

Building	Room	Capacity
Physics and Astronomy	1425	193
Physics and Astronomy	1434A	91
Physics and Astronomy	1749	40
Physics and Astronomy	2434	48
Physics and Astronomy	2748	43
LaKretz Hall	100	*20*
LaKretz Hall	101	*20*
LaKretz Hall	105	*350*
LaKretz Hall	107	*45*
Kaufmann Hall	101	*50*
Kaufmann Hall	153	*30*
Math Sciences	5117	42
Math Sciences	5118	40
Math Sciences	5127	40
Math Sciences	5128	42
Math Sciences	5137	42
Math Sciences	5138	42
Public Policy	1222	98
Public Policy	1234	98
Public Policy	1246	103
Franz Hall	1260	131

Room capacities for Kaufmann and LaKretz Hall are estimates.

The State of General Assignment Classrooms at UCLA

UCLA has approximately 200 General Assignment Classrooms. The number varies due to renovation and construction. In 2004-2005, for example, the Physics and Astronomy building and LaKretz Hall will come online with 9 rooms between them. In addition, completion of renovation projects in Kaufmann Hall and the Broad Art Center will bring two or three rooms back to the inventory. However, with the beginning of the seismic renovation project in the Humanities building, (formerly Kinsey Hall,) 12 rooms will be removed from the inventory for 3-4 years.

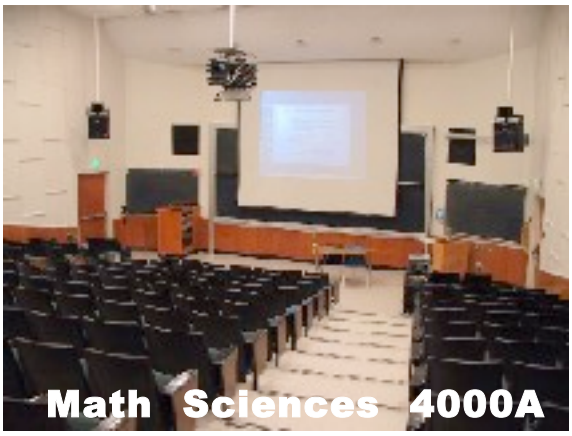
OID Classroom Services provides media equipment to all GA classrooms. Classroom maintenance is the purview of Facilities management, with whom we work closely in the upgrade process. To provide these classrooms with media equipment, OID has an annual allocation of $453,000. This includes portable equipment for the Audio-Visual Services unit. Annual maintenance and repair costs account for nearly $150,000 of this amount, including $75,000 in lamp replacement costs alone. Labor costs for installation and upgrading account for another $100,000. Assuming an average cost of approximately $30,000 per classroom for installation or upgrade, OID is therefore capable of processing 8-9 classrooms per year. Although it would be desirable for all rooms to have media equipment, it is not possible in some cases due to architectural considerations. However, assuming for the moment that all rooms are capable of supporting installed media, the financial situation implies that the time between upgrades for each of the 200 classrooms is 25-30 years! This is well beyond the average life of the equipment, and certainly far behind the pace of technical innovation in the field.

An additional issue is that equipment needs to be replaced in large numbers all at once, as opposed to a more gradual process. For example, this year 6 outdated Sony CRT projectors need replacement. These machines, state of the art when they were purchased 7 years ago, now have far lower resolution than most users require, as well as brightness levels in the 300 lumen range. Currently, OID is purchasing projectors in the 2,000 to 5,000 lumen range, depending on the use. Within the next two years, all five of the large room format projectors will need to be replaced. The smaller projectors, of which there are approximately 40, should be replaced in the same time frame, but under current financial constraints it is unlikely that will be possible. As the projectors age beyond their intended life of 3-5 years, the resolution begins to deteriorate and brightness fades. On a positive note, the price of equipment continues to fall as quality and performance increases. The Sony projectors described above cost over $50,000 when purchased, the NEC replacements will cost around $12,000. The large format NEC's cost $70,000; the Panasonics that will replace them will cost less than $30,000.

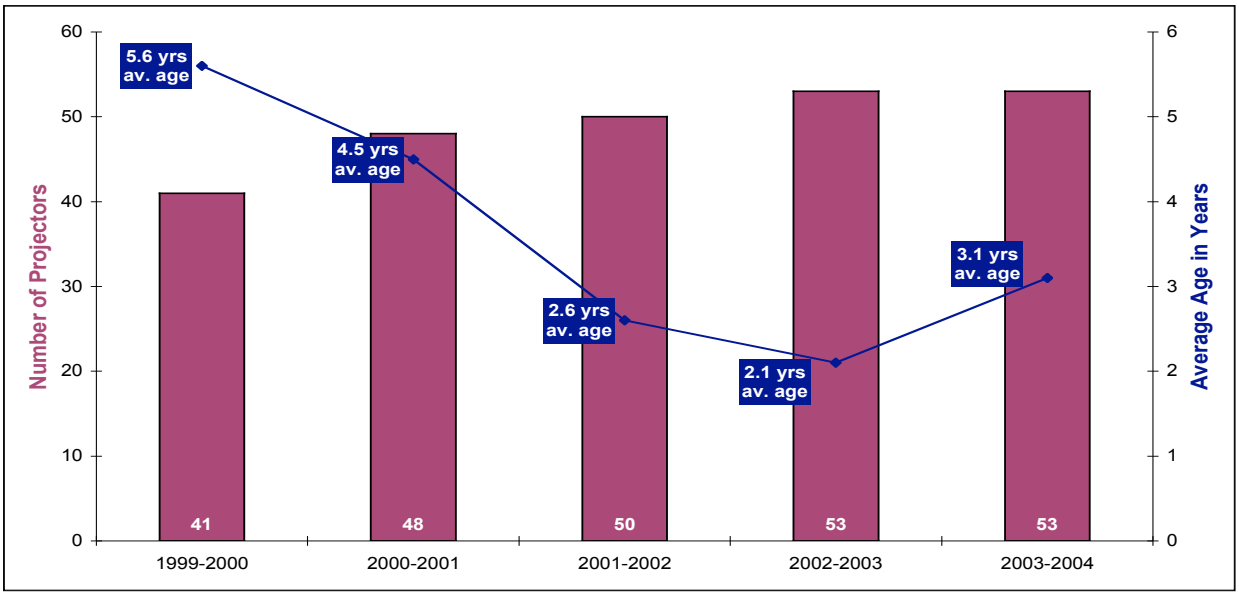
The campus is now dependent on schools and departments to pay for equipment to go in new construction and major building renovations. Additions to the media classroom roster from the existing inventory must come from OID's annual funding. With virtually all of annual funding spent in keeping the rooms up to date, it is very challenging to develop innovations such as wireless access or advanced equipment like "smart" whiteboards, automated recording devices, or multiple projector and screen combinations.

Classroom Equipment Statistics, as of Spring 2004

Classroom Size	# of Rooms	Overhead Projector	Video Equipment	Network Connection	Data Projection	Slide Projection	Voice Amp.	Sound Amp.	Installed Computer
10-19	19	19	18	19	0	0	0	0	0
20-39	75	75	54	75	5	9	0	5	0
40-59	35	35	27	35	12	7	1	12	4
60-99	20	20	13	20	11	15	10	11	5
100-149	13	13	10	13	10	13	12	12	4
150-299	10	10	10	10	10	10	10	10	1
300 +	5	5	5	5	5	5	5	5	1
Totals	**177**	**177**	**137**	**177**	**53**	**59**	**38**	**55**	**15**
%		100%	77%	100%	30%	33%	21%	31%	8%



As of June 2004, the classroom equipment inventory is valued at approximately 3.5 million dollars. The largest component is installed and portable video projectors. Classroom Services has attempted to keep video projection equipment as up-to-date as possible, both for maintenance purposes and to provide the best possible resolution and brightness to our clients. However, due to an increasingly limited financial position, for the first time in several years our average age of installed equipment increased in 2003-2004.



Classroom Services 3 Year Planning

In 2004-2005, Classroom Services will be adding 21 media classrooms to the inventory, bringing the total to over 70. This number approaches the sopport capacity of our current service and maintenance infrastructure. In 2005-2006 there are no plans to add any rooms as older equipment is upgraded and monitoring and control systems are improved. The new systems should extend the reach of the infrastructure to support additional classrooms. In 2006-2007 the focus will be on the re-opening of the renamed Humanities Building, formerly Kinsey Hall.

2004-2005

- complete media equipment installation in 9 classrooms in two newly constructed buildings: Physics and Astronomy and LaKretz Hall.
- complete media equipment installation in 2 classrooms in the renovated Kaufmann Hall.
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- convert additional rooms to the new integrated classroom remote control and monitoring system.

2005-2006

- upgrade six classrooms that currently have obsolete CRT Projectors:
  - Botany 325
  - Dodd 161
  - Math Sciences 5200
  - Perloff 1100
  - Rolfe 1200
  - Royce 190
- upgrade Broad Art Center 2160, a large lecture hall
- convert additional rooms to the new integrated classroom remote control and monitoring system.

2006-2007

- convert 12 renovated classrooms in the Humanities Building to media rooms, including Humanities 51, a large lecture hall
- replace the large format projectors in 5 lecture halls with newer models

New Equipment for Classroom Use

Cyberhome DVD Players

Last year, we purchased a new lightweight model of DVD player. The Cyberhome DVD CH-300S weighs under four pounds and is small enough to fit within a shoulder bag. This new packaging makes it much easier for instructors to bring a DVD player to classrooms across the campus.

Panasonic Mini-DV Cameras

We will soon begin to phase out our VHS cameras on video recordings and replace them with the new mini-DV cameras. Initially, video decks will be brought to the recordings so that a VHS copy can still be given to the client. As the DVD format becomes more universal, we expect that we will soon be offering DVD recordings in place of VHS.

Compaq Tablet PC

Through a donation from the UCLA College, we received ten tablet PC's and began to offer them to faculty last year. The tablet PC allows more activity with the class with the ability to "write on" PowerPoint slides and highlight specific information. Instructors were allowed to keep them for the quarter and test whether the tablet was a useful tool for presenting information. We will continue to offer the tablets through this academic year.

Research & Development

iSkia, by iMatte

When connected between a data projector and computer, the iSkia creates a form-fitting shadow that allows a presenter to walk in front of a screen, but not get any of the projected image on him. The presenter can also select to be lit by a form-fitting spotlight that moves along with him. Though impressive, the iSkia would be hard to implement in real classroom scenarios and is also too expensive for a device that just accentuates lectures. We will reevaluate later, to see if the technology drops in price and whether we could utilize it in certain scenarios (e.g. fixed video-conference rooms).

Mediasite, Sonic Foundry

Mediasite is a system for recording presentations and lectures and making them available for veiwing almost immediately. The system can accommodate different kinds of presenters and can record any kind of visual content. Presentations can be viewed live or made quickly available for playback on-demand – users get the conveniences of desktop access, content navigation and presenter interactivity. We were very imppressed with the capabilities of Mediasite, but the cost was prohibitive for us in any scale that made sense in our environment. We will be watching this technology closely.