

Fall 2016 Quarterly Report

Computer Lab Management

Prepared by Tim Leamy

Computer Lab Management (CLM) operates 20 computer rooms across the UC Davis campus. These consist of 14 computer classrooms and 6 open access labs with a total of 622 installed stations. CLM also manages eight departmental computer rooms with 225 installed stations for the School of Education, the UC Davis Language Center, and The Arts Admin Group.

Some of the significant items from Fall 2016 include:

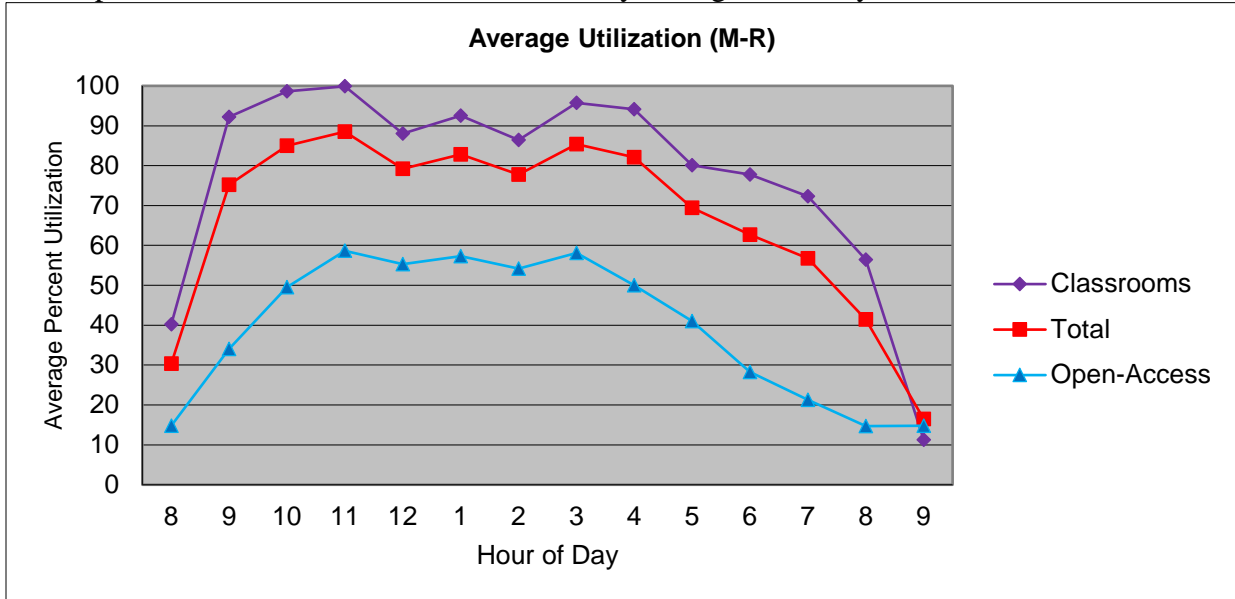
- During Fall 2016 there were 6,270.5 hours of instruction reserved in the computer classrooms. This was the highest quarterly reserved hours in CLM history. CLM added two new computer classrooms in the Shields Library in Winter 2014, which caused a large jump between 2013 and 2014. However, the new Shields classrooms only account for roughly two-thirds of the increase since 2013. The remaining growth can be attributed to the 2020 Initiative and faculty members integrating more computer-centric methods into their classroom teaching. Therefore, CLM is continuing to look for ways to add computer classrooms.
- The number of logins has remained fairly consistent over the past few years, but is lower than the peak in 08-09. The number of unique users is slowly increasing, most likely keeping pace with the increasing number of students. The decrease in number of logins has several likely causes:
 - Increased ownership of laptops and smartphones reducing student need for accessing the computer rooms.
 - The Fall 2009 printing rate change decreased printing demand and therefore logins.
 - Increased reserved class hours reducing the time available for drop-in student use.
 - Decrease of open hours – CLM dramatically cut evening and weekend available hours in response to budget issues.
- CLM upgraded many software packages - including Vectorworks 2017, Sketchup Pro 2017, Adobe Creative Cloud 2017, SPSS 24 and R 3.3.2 to meet instructor needs for their classes.
- CLM conducted a faculty survey about computer room use. The results are posted at http://clm.ucdavis.edu/pubs/survey/faculty_f16.html. In general faculty were very pleased with the computer classrooms.

Statistical Summary

Utilization

Overall computer room utilization

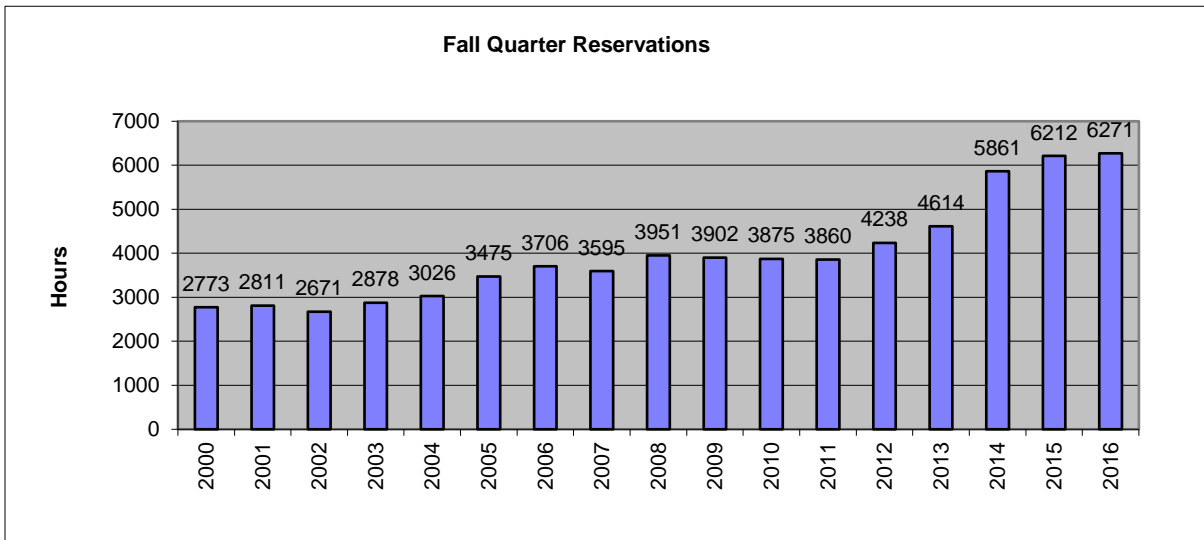
Computer Lab Management operates 20 computer rooms at UC Davis. These computer rooms experience high utilization during peak hours (10:00 am to 5:00 pm). The graph below shows average utilization for classrooms, open-access labs and all rooms for Monday through Thursday.



Classroom use is very high – averaging over 90% for most of the peak class times. Open-access utilization is lower, but since it is an average across the entire quarter it doesn't give a sense of peak use. Many of the open-access labs also experience wait lines during busy times of the quarter. The maximum wait line across all computer rooms was 20 people waiting for a computer on November 8th.

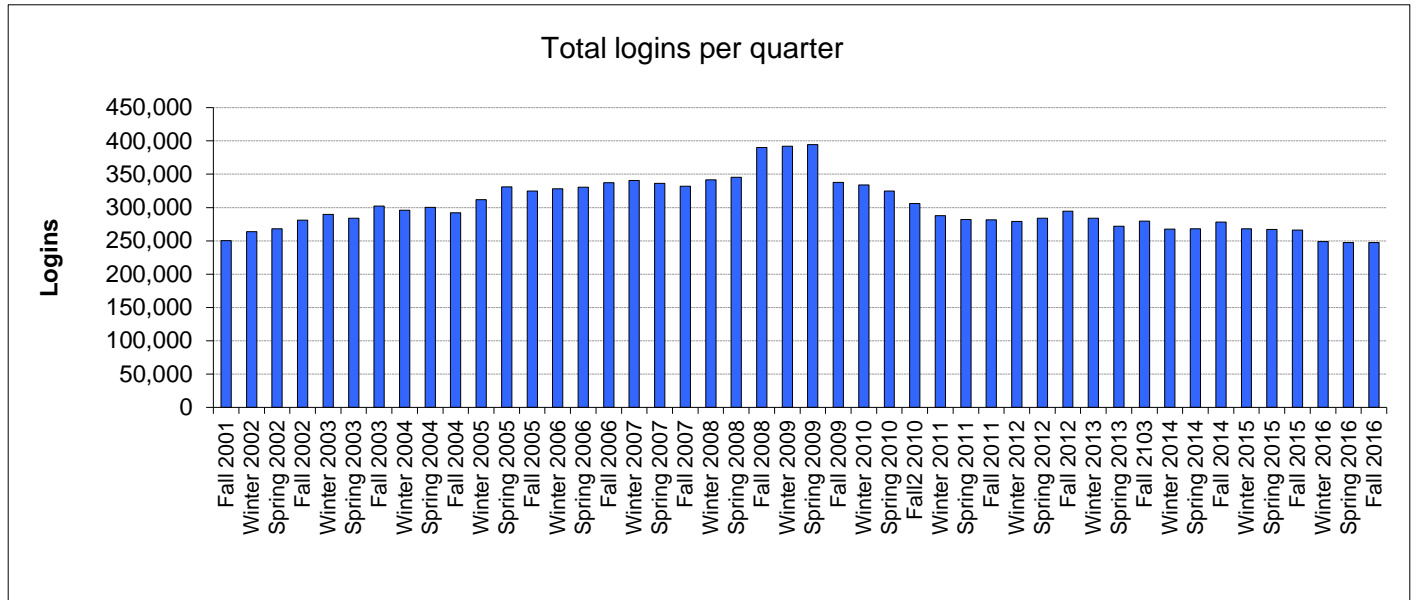
Class Use

During Fall 2016 there were 6,270.5 class hours reserved in the computer classrooms. This was the highest quarterly reserved hours in CLM history. In addition, there were 189 class software installs and 165 class folders created during Fall 2016.



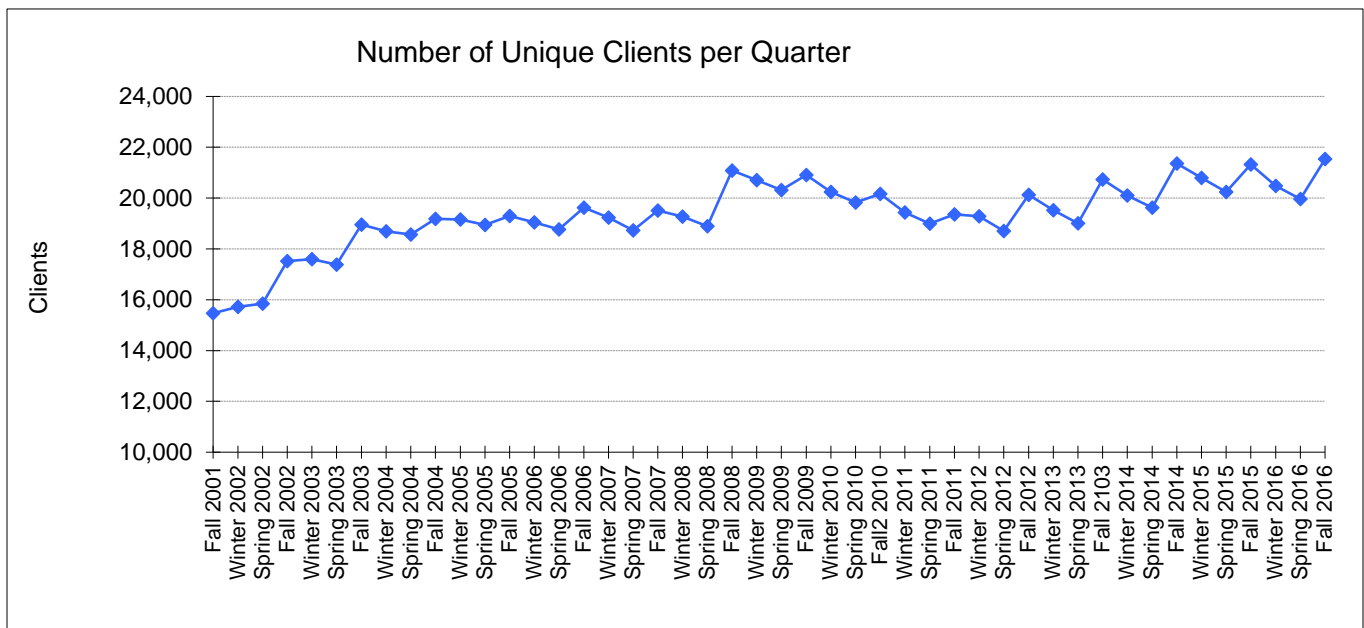
Number of Logins

The total logins in Fall 2016 were 247,519 (essentially unchanged from Spring 2016). There is a large decrease from the 08-09 average of 392,096.



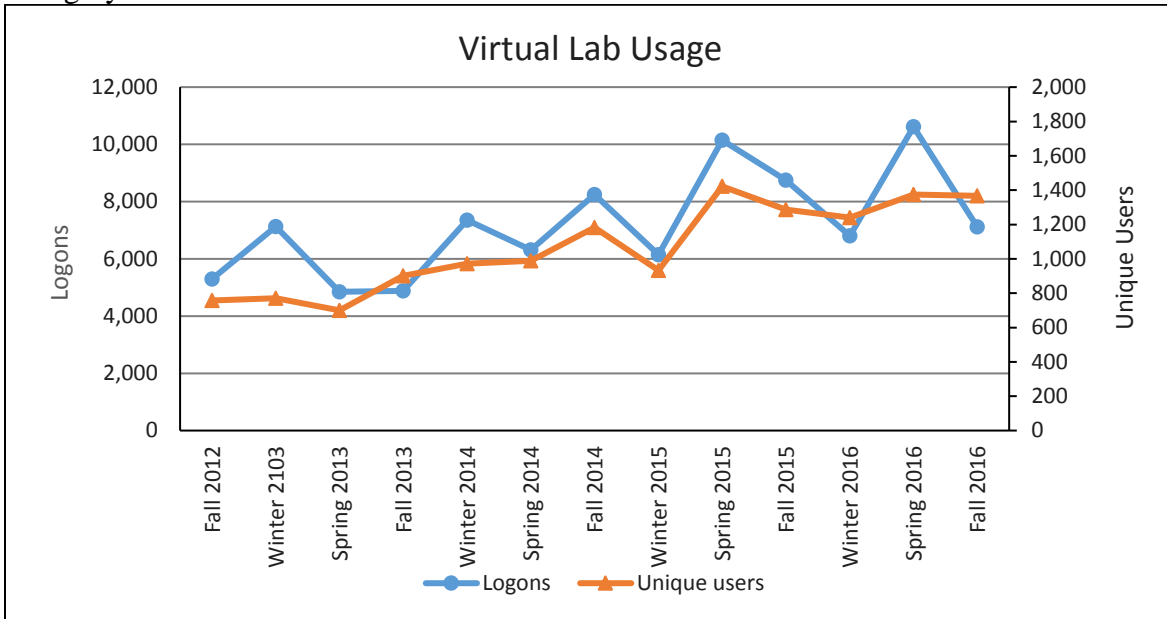
Unique Users

The number of unique clients increased to 21,533 in Fall 2016, which is an increase of 1,573 clients from Spring 2016. This is the highest number of unique users in CLM history. 20,973 of the unique clients were students.



Virtual Lab Users

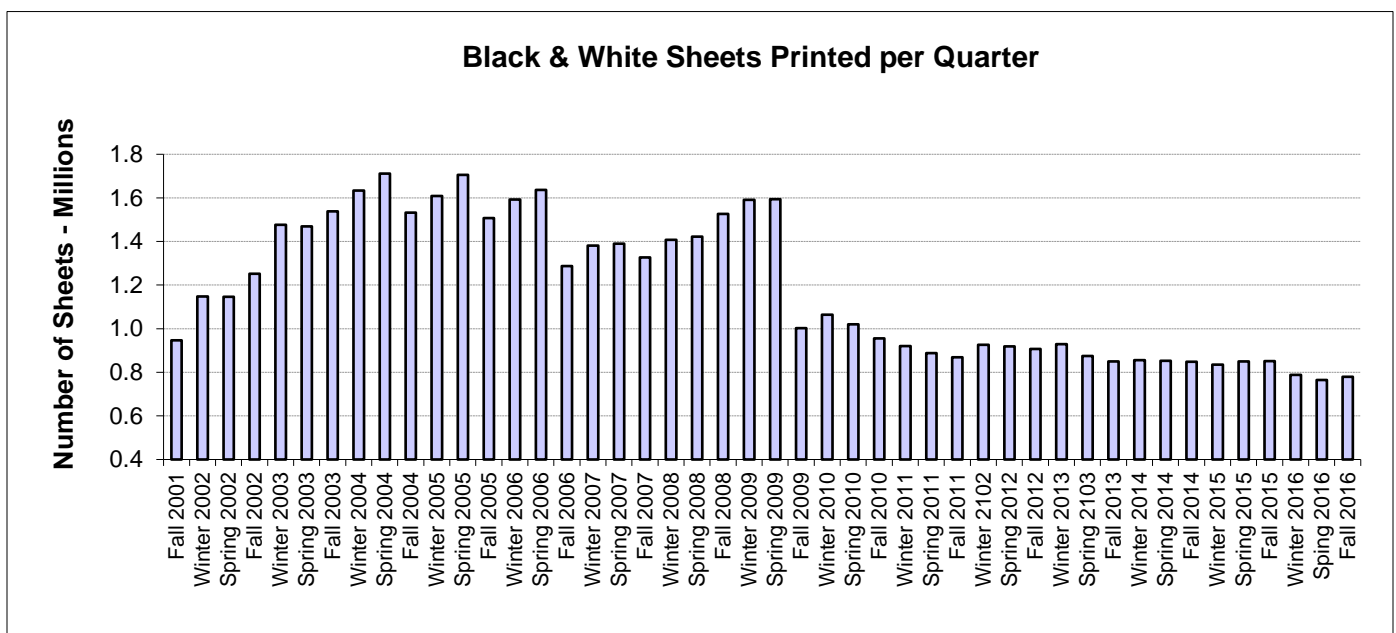
The IET Virtual Lab was used 7,113 times by 1,367 unique clients. Spring quarter typically has the highest number of Virtual Lab logons, so there was a drop of logons from Spring 2016 while the number of unique users was roughly the same.



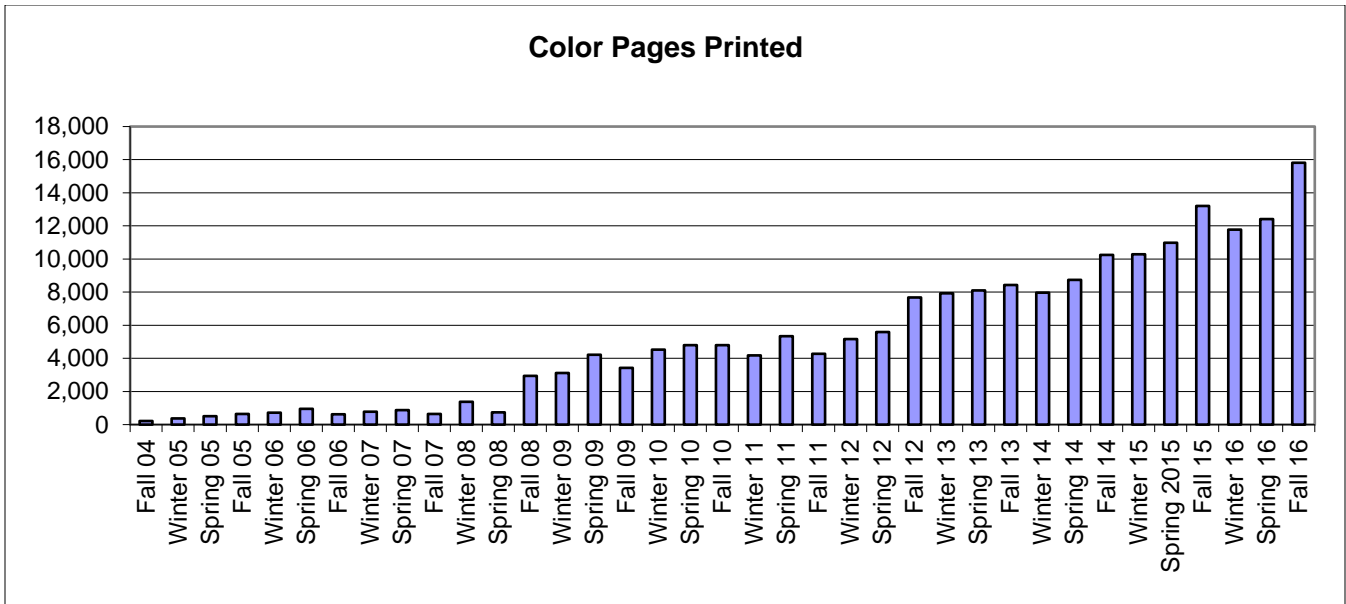
There were 806 denied connections to the virtual lab since there were no free stations. Most denied connections were during the day when there are only very limited number for computers available. The denied sessions dropped dramatically from Spring 2015 since CLM made more stations available during the day.

Printing

The total sheets printed in Fall 2016 remained essentially constant at 779,058. The average sheets printed per client (of those who printed) was 42.43. The number of sheets printed per quarter dropped dramatically from 08-09 levels due to a new printing rate implemented in Fall 2009.



There were 15,804 color pages printed, an increase of 27.3% from Spring 2016. This was the largest number of color pages printed in CLM history.



There were 4,376 wireless print jobs, an increase of 629 from Spring 2016. There were 612 unique clients who printed through the wireless printing system.

