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# Thinking Outside the Box

Specialized Educational Technologies



## Dental Lab

### Specialized Dental Technologies

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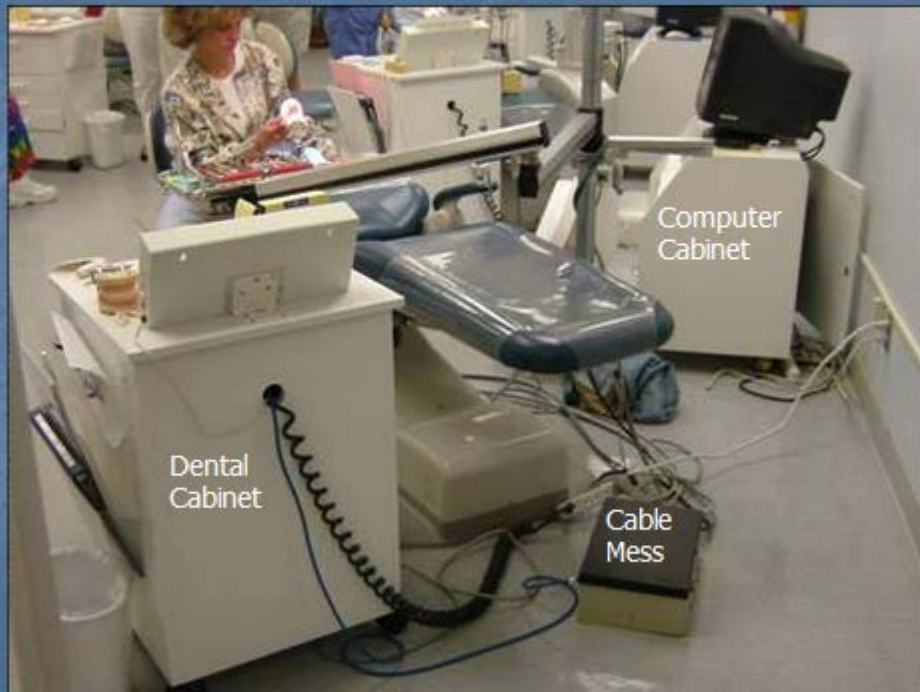
## Dental Lab: Specialized Dental Technologies

**Innovation:** Computerized Dental & Digital Radiography Lab incorporates technology into very specialized fields of Dental Hygiene & Dental Assisting.

**Problem:** the space required for computer cabinet, dental cabinet, multiple cables & dental tools.

**Solution:** be innovative to reduce clutter, while also adding new technology & advanced learning opportunities.

Before: Notice the stretched cables, power strips, & dual cabinets



## Dental Lab Specialized Dental Technologies

Our **solution** was to design a moveable dental cabinet with command post arm to support an LCD monitor/kybd/mouse & hide the computer.

Wireless technology removes the need for network cabling. A large power strip consolidates all electrical needs.



Dental Command Post, attached to moveable cabinet, which houses cpu, intra-oral camera & dental charts, manuals.



Notice wire management on back of cabinet  
& intra-oral camera.



A busy dental lab, but less cluttered & safer with fewer cabinets & cables.





# Dental Lab

## Specialized Dental Technologies

This is a **collaborative** project between Dental Hygiene at MSU, Dental Assisting at South Central College, Information Technology Services, & the Academic Computer Center.

**Cooperative funding** provided by student technology fee, Academic Affairs, Dental Hygiene, Dental Assisting.



Notice keyboard & mouse sanitary covers



# Dental Lab

## Specialized Dental Technologies

**Intra-Oral cameras** allow the imaging of the interior of the patient's mouth & viewing on through the computer onto the LCD Display.

The pictures are also stored on the patient's records through Dentrix or can be emailed to a Dentist for consultation.

# Inter-Oral Camera, displayed onto 17" LCD





# Dental Lab

## Specialized Dental Technologies

**Dentrix** allows students to learn the latest dental office software, record patient information, store pictures from the Inter-Oral cameras or the Digital Radiography.

Follow-up appointments can be scheduled while the patient is still in the dental chair.

## Dental Hygiene student charting in Dentrix software



## Height adjustable for standing or sitting









# Dental Lab

## Specialized Dental Technologies

**Digital Radiography** is an alternative to replace x-ray film & chemical film development. It is much quicker for students to spot a mistake & easily take another digital picture.

The Digital Radiography pictures are stored on the patients files or sent electronically to a Dentist for consulting. Four Digital Radiography stations were built into the x-ray rooms.



# Dental Lab

## Specialized Dental Technologies

The Dental lab is a "**Satellite Computer Lab**", is on the three year computer replacement cycle, is maintained & supported by the Academic Computer Center.

This is a highly **successful** project with student enrollment at maximum. Students & faculty are learning on the latest dental technologies available to the industry. 90% of students pass board exams upon graduation & are immediately hired.