

adha **CELL 2015**
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CE Course Handout

Interactive Technology in Learning: What Students Expect and What Faculty Should Know

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American
Dental
Hygienists'
Association

American Dental Hygienists Association Annual Session: Nashville TN

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Interactive Technology in Learning: What Students Expect and What Faculty Should Know

Speakers:

Margaret Lemaster, BSDH, MS mlemaste@odu.edu

Ann Bruhn, BSDH, MS abruhn@odu.edu

Tara Newcomb, BSDH, MS tgarlow@odu.edu

Disclosure

Within dental education, there are strengths of face-to-face teaching and promising capabilities of the use of technology in learning. Using a combination and blending several methods will ensure an optimal educational experience for all students.

Objectives

1. Experience evidenced-based approaches for engaging “net” generation students through techniques such as social media and audience response systems.
2. Use evolving technology to meet the instructional needs of students with varying learning styles.
3. Incorporate the latest technologies to enhance teaching effectiveness to encompass creativity and maximize learning.

Today’s generation college student:

Digital natives

Practical

Optimistic about their future

Think highly of their abilities

Fear of failure

Parental contact = HIGH

Poor face to face relationships

High interest in global issues

Teaching Theories

We need to ask ourselves as educators:

Does research show that students prefer a more interactive-based approach to learning?

Does research show that students perform better when incorporating technology and interactive approaches into our curriculum?

Bloom’s Taxonomy

Student learning and performance should increase in difficulty as they advance in their field (dentistry).

Active Learning

Method of instruction that allows the student to move from “listener” to “participant.”

The Evidence

Student Preference:

Student Performance:

Incorporating Interactive Approaches into the Classroom

Advantages

Disadvantages

A properly structured interactive lecture...

Captures student interest and attention

Engages students in self-learning

Covers important topic areas more effectively

Increases student retention

4 Common Teaching Mistakes:

Turning class into a PowerPoint show

Failing to provide a variety of instruction

Getting stuck in a rut

Failing to incorporate technology out of class

Interactive Solution

Common Mistake #1: Turning class into a pure PowerPoint show (Death by PowerPoint)

Solutions:

Mobile applications

Wordle –word cloud

“Buzz” time to break up lectures

Videos, diagrams, pictures, charts

Student generated questions

Compare notes

Alter PowerPoint design- use as a supplement

BREAK up the lecture

Common Mistake #2: Failing to provide a variety of instruction

Solutions:

Polls

Elmo projector, in-class activities

Concept mapping

Common Mistake # 3: Getting stuck in a rut. Prevent your course (and you) from getting stale.

Educational sessions at professional conferences

Read journal articles in your discipline

Visit digital libraries to see tutorials, demonstrations, and simulations (iTunes U app., YouTube)

Commit to making 1 change in your course each semester

Common mistake # 4: Failing to incorporate technology out of class

Google Drive

Social media (Facebook, Twitter, interactive websites)

Clinic blogs

Using Web-based 3D Models

Creating and Implementing Video-clip as an Assignment and Learning Tool

Tech Resources

Technology	Website	App	Cost	Description
Alarmy	https://itunes.apple.com/us/app/alarmy-sleep-if-u-can/id609598558?mt=8	yes	\$1.99	Dubbed as “the world’s most annoying alarm”, Alarmy has quickly become a favorite mobile app among users
Any.do	http://www.any.do	yes	free	organizer app
AutoSilent	https://itunes.apple.com/us/app/autosilent/id474777148?mt=8	yes	\$2.99	AutoSilent automatically mutes your iDevice (iPhone, iPad) during meetings, scheduled times or at selected locations (Apple only)
Cam scanner		yes	free	Uses phone or tablet to scan documents and pictures
Chegg	www.chegg.com	yes	fee	Homework help and online textbook rentals
Clear	https://itunes.apple.com/us/app/clear-tasks-reminders-to-do/id493136154?mt=8	yes	\$4.99	to-do and reminders app that makes you more productive
Dictionary.com	http://dictionary.reference.com/apps	yes	free	Online reference
Dragon dictation	https://itunes.apple.com/us/app/dragon-dictation/id341446764?mt=8	yes		easy-to-use voice recognition application powered by Dragon® NaturallySpeaking® that allows you to easily speak and instantly see your text or email messages. it’s up to five (5) times faster than typing on the keyboard.
Dropbox	www.dropbox.com	yes	Free for limited space	File sharing
Duolingo	https://itunes.apple.com/us/app/duolingo-learn-languages-for/id570060128?mt=8	yes	free	Learn languages
EasyBib	http://www.easy		free	Bibliography generator

	bib.com/			
Educreations	https://www.educreations.com/	yes	Basic is free	Record your voice and iPad® screen to create dynamic video tutorials that students and colleagues can access any time, as needed Import documents and pictures from your Photo Library, Dropbox and Google Drive. Display a custom map. Insert any webpage. Snap a photo or search the web for the perfect image, right within the app
Evernote	https://evernote.com/	yes	Free version	Organizational app
Exam countdown	https://itunes.apple.com/us/app/exam-countdown/id873279955?mt=8	yes	free	free and simple app to keep track of exam dates.
Google drive		yes		File sharing
Goto meeting	http://www.gotomeeting.com/online/start	yes	Cost varies	Online meeting platform
Instagrok	https://www.instagrok.com/		Free for students, \$45 a year for educators	Researches any topic with interactive concept map
Istudiez Pro	http://istudentpro.com/windows.php	yes	\$9.99	unique application for students which combines tracking schedule, homework and grades with a delightful user experience.
iTunesU	https://itunes.apple.com/app/itunes-u/id490217893?mt=8&ls=1	yes	Free	access to complete courses from leading universities and other schools — plus the world's largest digital catalog of free education content iPad, iPhone only
Jing	http://jing.en.softonic.com/download		free	Program that allows instant capture of images and records video on your computer—then share them with anyone. Jing adds basic visual elements to online conversations
Jumpcut	http://jumpcut.en.softonic.com/mac	yes	free	copy/paste app an application that provides "clipboard buffering" — that is, access to text that you've cut or copied, even if you've subsequently

				cut or copied something else. The goal of Jumpcut's interface is to provide quick, natural, intuitive access to your clipboard's history. Apple only
Koofers	https://itunes.apple.com/us/app/koofers-mobile/id457029173?mt=8	yes	free	Test banks, flash cards, professor reviews
Margins	https://itunes.apple.com/us/app/margins-book-notes/id293376307?mt=8	yes	\$3.99	Keeping book notes, citations, etc
Mint.com	https://www.mint.com/	yes	free	helps with money management
Notability	https://itunes.apple.com/us/app/notability/id360593530?mt=8			powerful, yet simple note-taking and annotation
Notella	https://itunes.apple.com/us/app/notella-write-note-fast-take/id543944910?mt=8		\$2.99	takes your notes and documents and stores them in one easy-to-find place. Quickly. Easily. In real-time.
OpenStudy	https://itunes.apple.com/us/app/openstudy/id844216430?mt=8	yes	free	study help app like no other. Connect with hundreds of students and teachers who want to help you understand
Prezi	https://prezi.com/	yes	free	Alternative to powerpoint
Remind	https://www.remind.com/	yes	free	Communication platform built for teachers. Allows teachers to safely and efficiently interact with students about important classroom information and school activities. Subscribers sign up as a student and choose to receive messages by text, email, or in the app.
Screen Casting Tutorial	https://www.techsmith.com/tutorial-camtasia-mac-gs-1-record-prepare-		free	animated screen casting video course to improve presentations

	script-rehearse.html			
Scribd	https://www.scribd.com/	yes	\$8.99 month	online library unlimited books and audio books
SelfControl app	https://selfcontrolapp.com/	yes	free	Block your own access to distracting websites, your mail servers, or anything else on the Internet. Set a period of time to block for, add sites to your blacklist, and click "Start." Until that timer expires, you will be unable to access those sites--even if you restart your computer or delete the application. Apple only
Share your board	https://itunes.apple.com/us/app/share-board-draw-sketch-discuss/id385921946?mt=8	yes	free	white board collaboration
Silent	https://play.google.com/store/apps/details?id=com.hw.silentfree&hl=en	yes	free	Set phone's weekly ring schedule Select places at which mobile phone should not ring Add exceptions for important callers Silences phone at a specific time (Android only)
Snap2PDF	https://itunes.apple.com/us/app/snap2pdf-scan-documents-share/id472940721?mt=8	yes	\$1.99	Lets users capture and share all documents in PDF format.
Studious	https://play.google.com/store/apps/details?id=leslie3141.android.studious&hl=en	yes	free	An elegant yet minimal and lightweight app to organize your study schedule. Studious ensures you never lose track of homework or exams, and keeps you punctual for your classes with a beautifully designed timetable viewer. Google Play
Studious	https://play.google.com/store/apps/details?id=com	yes	free	Silence your phone in class Remind you when homework and

	om.young.studious&hl=en			tests are due Save notes
Study Blue	https://www.studyblue.com/		free	digital flash cards
Study checker	http://www.educationalappstore.com/app/study-checker		free	Automatically records study or break times Displays the stats of each study and break time for a day, a week, a month, and a custom period. Supports the stats for per-study and per-break.
Viber	http://www.viber.com/en/	yes	free	lets you send free messages and free calls to other Viber users, on any device and network, in any country
webEx	http://www.webex.com/products/web-conferencing.html#pricing	yes	Cost varies	Online meeting platform
Wolfram Alpha	https://play.google.com/store/apps/details?id=com.wolfram.android.alpha&hl=en		\$2.99	Wolfram Alpha is the source for instant expert knowledge and computation. Across thousands of domains--with more continually added--Wolfram Alpha uses its vast collection of algorithms and data to compute answers and generate reports
Wordle	http://www.wordle.net/		free	word cloud generator