Engaging the Hopelessly Distracted: Using Mobile ARS in the Classroom Practical Uses at the UAL

Tatiana Usova, Denis Lacroix, Christina Hwang



Agenda

- Definitions
- Engagement Theory
- Technology in Academia
- North America ARS use
- Nuts and bolts of Poll Everywhere
- U of A applications
- Questions

PE question: http://www.polleverywhere.com/multiple_choice_polls/OTQxMzQ0MjE5

Definition of ARS

Audience Response System is an interactive polling device that allows powerful data collection and its analysis.

Mobile ARS gathers questions and feedback from audiences in real-time via text messaging, Twitter, or on the web.

Other terminology: Mobile Response System (**MRS**), Classroom Response System (**CRS**), Student Response System (**SRS**).





JAMES E. CÔTÉ and ANTON L. ALLAHAR

LOWERING HIGHER EDUCATION

THE RISE OF CORPORATE UNIVERSITIES and THE FALL OF LIBERAL EDUCATION





National Survey of Student Engagement (NSSE) 2011

2 million students (USA, Canada) surveyed 18 Western Canadian Universities and colleges

Figure 1: Active and collaborative learning

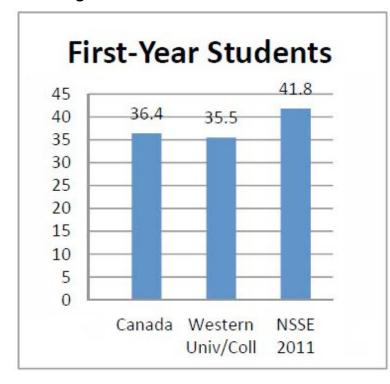
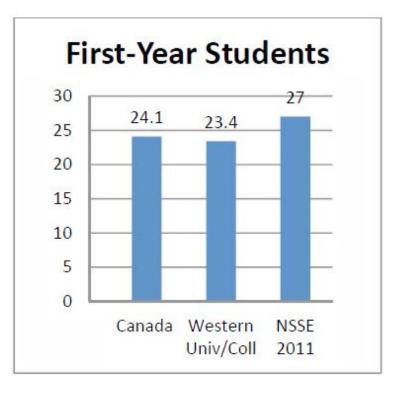


Figure 2: Enriching Educational Experiences



Student Engagement with MRS, Hypermedia and Technological Tools

Motivation & Self-Efficacy

Scaffold Learning with Prior-knowledge

Cognitive (Self-regulation)

Affective

Respects diverse talents and ways of loarning

Academic

inces & ibilitie

Effective Questioning:

- Bloom's Taxonomy
- Addresses specific learning goal
- Awareness of others' opinions
- Uncover misconceptions/confusions .
- Explore ideas in a new context, and .
- Elicit a wide range of responses

AAHE Principle for Good Practice in **Undergrad Education:**

HIVE

Learning

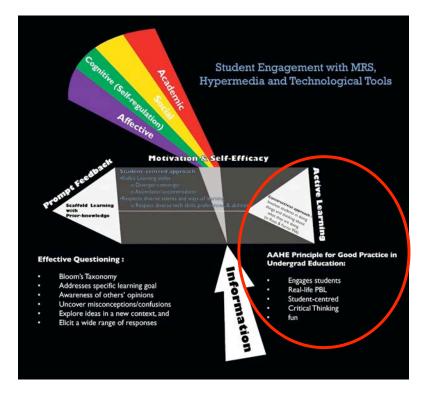
- Engages students
- Real-life PBL
- Student-centred
- **Critical Thinking**
- fun

.

Information

and they

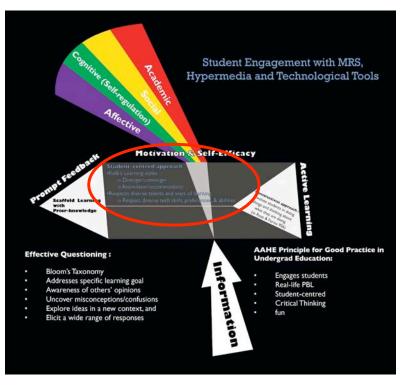




AAHE Principle for Good Practice in Undergrad Education:

- Engages students
- Real-life PBL
- Student-centred
- Critical Thinking
 - fun

Learning Styles



Student-centred approach
Kolb's Learning styles

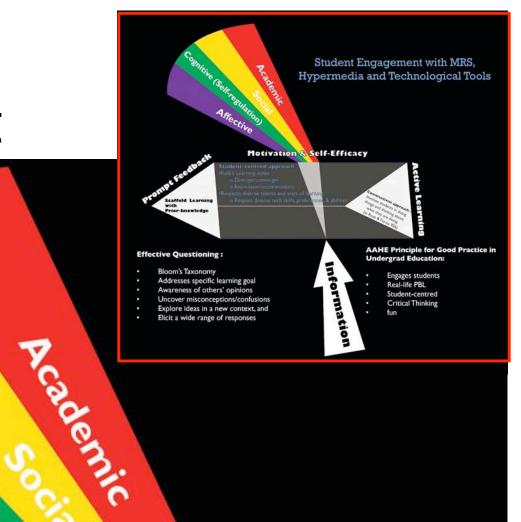
Diverger/converger
Assimilator/accommodator

Respects diverse talents and ways of learning

Respect diverse tech skills, preferences, & abilities

Student Engagement

Cosnitive (Selfinesulation) Asrective



Motivation & Self-Efficacy

Major Benefits of Technology for Academic Success

The major academic benefits of technology encompass four areas:

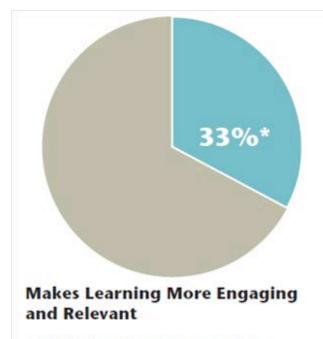
1.Technology gives students easy access to resources ...

2. Technology makes students more productive.

3. Technology helps students feel connected.

4. Technology can <u>make learning a more</u> <u>immersive</u>, engaging, and relevant experience.

Source: ECAR National Study of Undergraduate Students and Information Technology, 2011



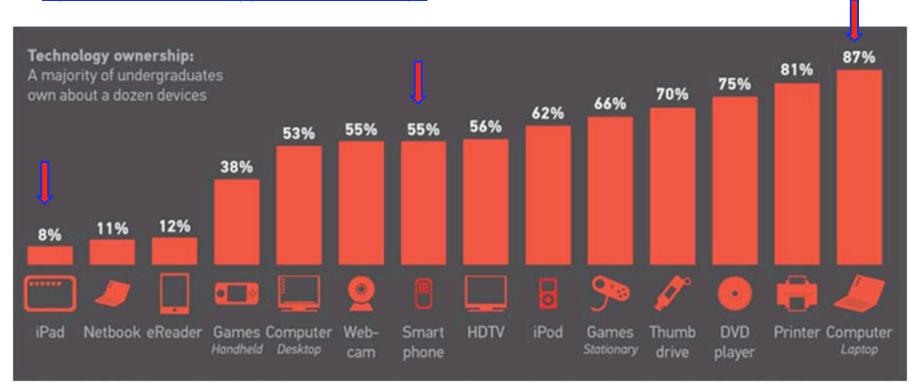
- Makes learning more creative
- Makes learning more fun
- Helps me think out of the box
- Makes learning more relevant to real life
- Makes learning more engaging
- Elevates teaching
- Helps me reach my academic potential
- Helps me take control of my learning
- Extends learning beyond the classroom
- Prepares me for the workforce
- Prepares me for graduate school

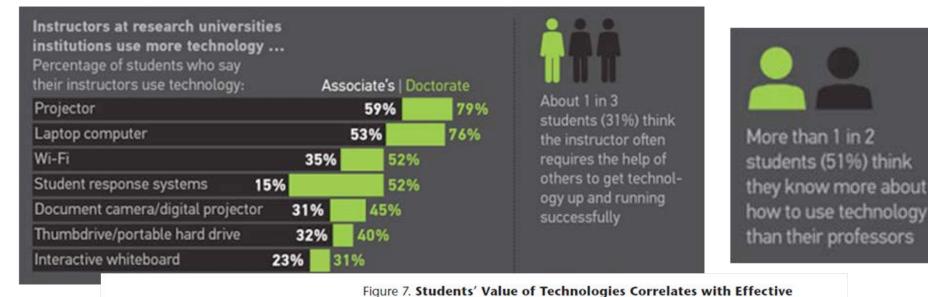


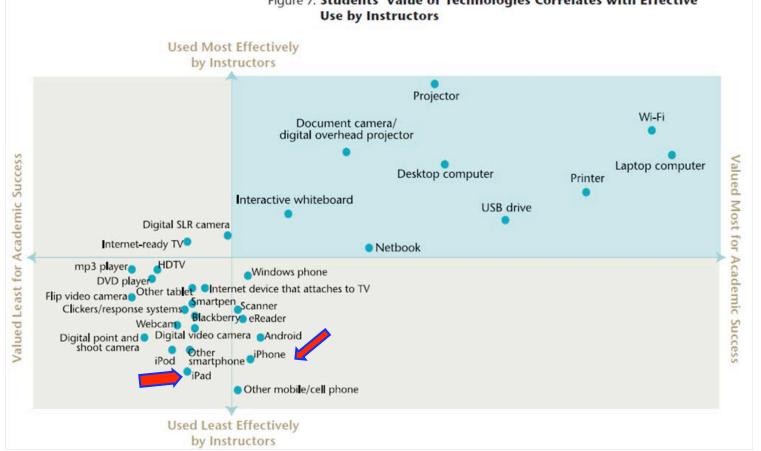
Technology Ownership

Study of Undergraduate Students and Information Technology, 2011

Results from 3,000 college students from 1,179 colleges and universities http://net.educause.edu/ir/library/pdf/ERS1103/ERS1103W.pdf







ECAR Recommendations:

•Investigate *your* students' technology preferences and create an action plan to better integrate technology into courses

•Make more and **better use of technologies that students value** —and that are easily integrated into learning experiences in the shared environments in higher education (e.g., tablets, smartphones, student response systems or clickers)

•Use technology in more transformative ways, such as participatory and collaborative interactions, and for learning that is engaging and relevant to students' lives and future plans

•Give students different options for interacting with instructors

 Move strategically toward blended/hybrid learning environments to meet students' preferred styles of learning. Offer many different ways for students to engage in learning using technology and meet differentiated needs













"Variations"

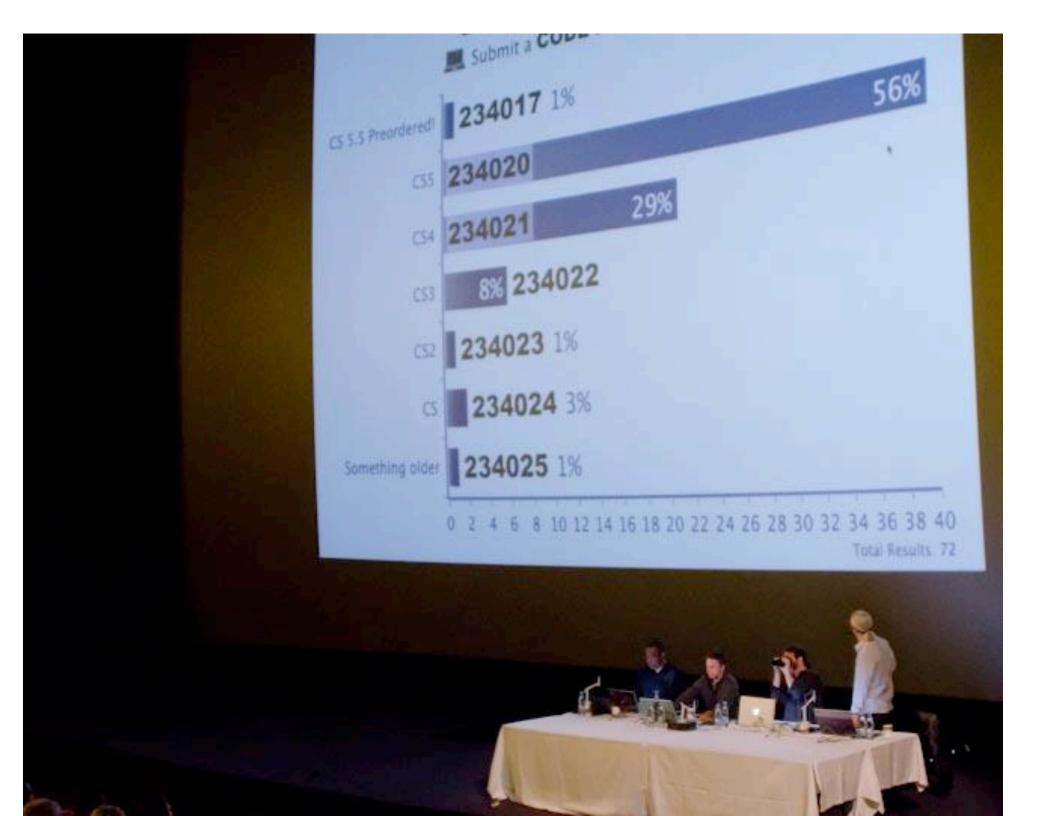
Name	Cost	Web/App/ SMS	Question Type	PPT/ Twitter/ Prezi	Max. Resp.	Analytics	Comments
eClicker Host	P: \$9.99/ app	iOS app	MC, TF	No	64 iPad, 32 iPhone /iPod touch	No	Requires same Wi-Fi network and free student app
<u>Poll</u> Everywhere	Free up to 40 Resp.	Web, MS	MC, TF, OE	All	Based on subscription	Only for paid subscription	Turn on PowerPoint Macros
<u>mClk</u>	\$35+ /month	SMS	MC, TF, OE	PPT only	Based on subscription	No	Only SMS
Web Clicker (iClicker)	Resp.: \$10/180 days P: license	Арр	MC, TF	No	Based on subscription	Yes	* See notes below.
SMART Response VE	Contact reseller	Web only	MC, TF	No	Based on subscription	Yes	** See notes below.
<u>Mentimeter</u>	Free	Web only	MC, TF	No	Unlimited	No	No login, fast, quick & easy
<u>Socrative</u>	Free	Web only	MC, TF, OE	No	Unlimited	No	Open source, multiple polls







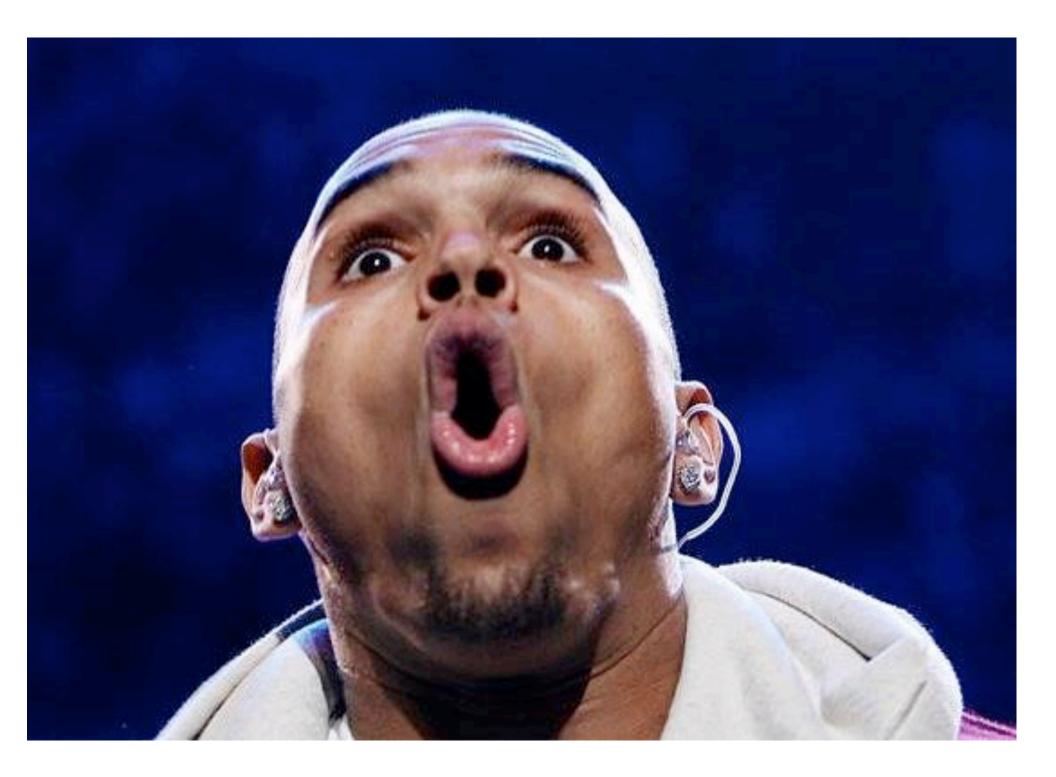


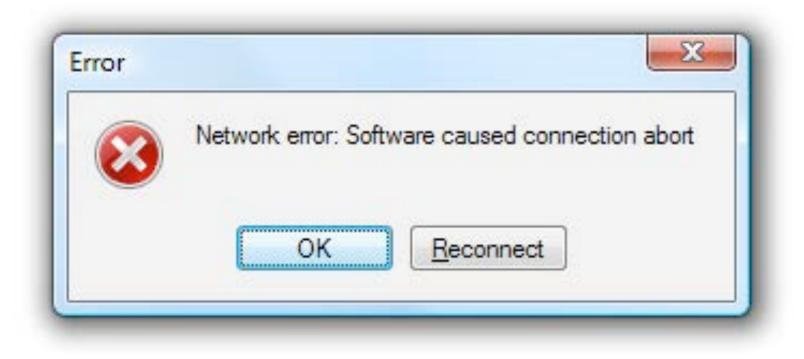


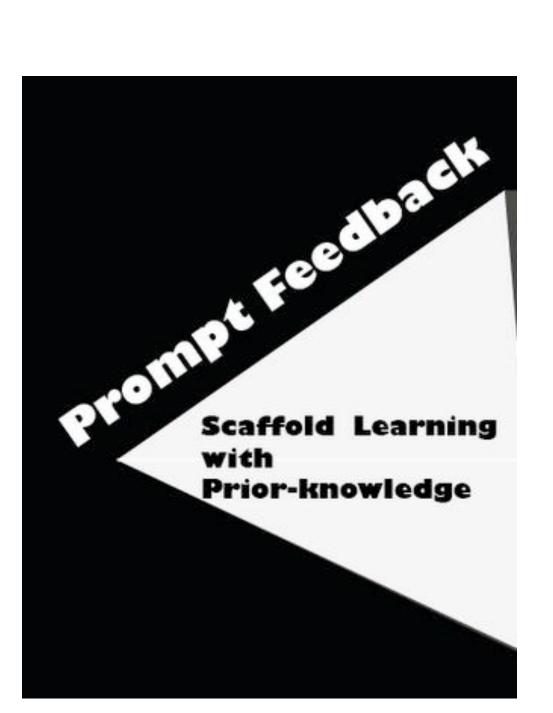


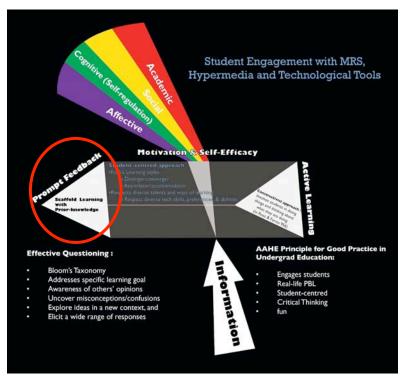












Mobile ARS in the classroom

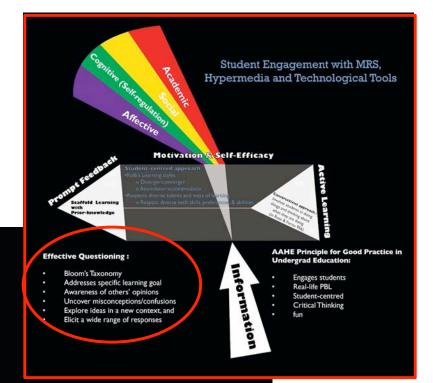
Effective Questioning

Bloom's Taxonomy

0

0

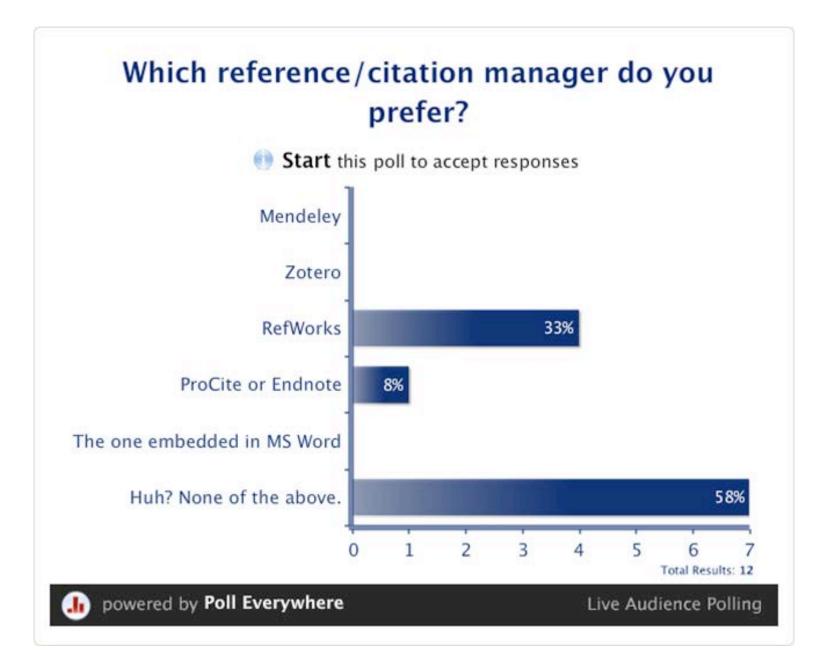
- Addresses specific learning goal
- Awareness of others' opinions
 - Uncover misconceptions/confusions
- Explore ideas in a new context, and
 - Elicit a wide range of responses



Poll Everywhere Examples

Which dictionaries or encyclopedias exist on early cinema in the NEOS catalogue?	Start Poll		
Start this poll to accept responses	Edit Copy Clear Results Delete		
"Historical dictionary of Italian cinema Moliterno, Gino, 1951-"	► Views		
"American film studios : an historical encyclopedia Fernett, Gene" over 1 year ago	 How People Can Respond Text messages from Canada Web devices on PollEv.com/your_name (?) 		
"An encyclopedic dictionary of women in early American films, 1895- 1930" over 1 year ago	 Tweets to @poll (?) Private link (?) Try it now 		
"An encyclopedic dictionary of women in early American films, 1895- 1930 [electronic resource]" over 1 year ago	Download as Slide		
""Historical dictionary of French cinema"	Share and Publish		
powared by Poll Evenowhere			

1.1



Questions?

Do you have any questions?

What is one thing you will take from this session?

http://www.polleverywhere.com/free_text_polls/MTg1MjAzNjQxMw

References

- Côté, James E., and Anton L. Allahar. Lowering Higher Education : The Rise of Corporate Universities and the Fall of Liberal Education. Toronto: University of Toronto Press, 2011. Print.
- Finn, J. D., and K. S. Zimmer. "Student Engagement: What is it? Why does it Matter?" *Handbook of Research on Student Engagement.* Ed. Sandra Christenson. New York: Springer, 2012. Print.
- Greene, Jeffrey A., Daniel C. Moos, and Roger Azevedo. "Self-Regulation of Learning with Computer-Based Learning Environments." *New Directions for Teaching and Learning* 2011.126 (2011): 107-15. Print.
- Guthrie, Rand W. and Anna Carlin. "Waking the Dead:Using Interactive Technology to Engage Passive Listeners in the Classroom." *Proceedings of the 10th Americas Conference on Information Systems* (August 2004). Web. http://www.mhhe.com/cps/docs/CPSWP_WakindDead082003.pdf
- Hijazi, Hanan. "Comparing Online and Classroom Students with the Kolb Learning Styles Inventory." Northcentral University, 2008. United States -- Arizona: *ProQuest Dissertations & Theses (PQDT).* Web. 22 May 2012.

Hwang, Christina, Denis Lacroix and Tatiana Usova. "Mobile Response Systems, For-The-Win!" Feliciter 58.4 (August 2012): forthcoming.

- Kay, Robin H., and Ann LeSage. "Examining the Benefits and Challenges of using Audience Response Systems: A Review of the Literature." *Computers & Education* 53.3 (2009): 819-27. Print.
- Martin, Andrew J. "Part II Commentary: Motivation and Engagement: Conceptual, Operational, and Empirical Clarity." *Handbook of Research on Student Engagement.* Eds. Sandra L. Christenson, Amy L. Reschly, and Cathy Wylie.Springer US, 2012. 303-311. Print.

NSSE Annual Results 2011: Fostering Student Engagement Campuswide. Web. http://nsse.iub.edu/html/annual_results.cfm

- Ross, Alanna, and Christine Furno. "Active Learning in the Library Instruction Environment: An Exploratory Study." *portal: Libraries and the Academy* 11.4 (2011): 953,18; 970. Print.
- Woo, Mary A., and James V. Kimmick. "Comparison of Internet Versus Lecture Instructional Methods for Teaching Nursing Research." *Journal of Professional Nursing* 16.3 (2000): 132-9. Print.
- Fan, Weiqiao and Yunfeng He. "Academic Achievement and Intellectual Styles." *Handbook of Intellectual Styles: Preferences in Cognition, Learning, and Thinking.* Eds. Li-fang Zhang, Robert J. Sternberg, and Stephen Rayner. New York: Springer, 2012. 233-249. Web.