

The science of nursing
The art of healing

College of Nursing Center for Nursing Science

The University of Nebraska Medical Center College of Nursing Center for Nursing Science in Omaha is one of the nation's most advanced nursing education facilities.

The emphasis of the facility is nursing science. State-of-the art classrooms and simulation and health assessment laboratories will better prepare students for an increasingly complex nursing environment. Whether it's complications during birth, resuscitating a patient, starting an IV or providing emotional support, the labs enable students to practice until they are competent and confident – in an environment where mistakes don't impact patients.

University of Nebraska Medical Center

The University of Nebraska Medical Center offers comprehensive programs of education, patient care and research. UNMC is composed of Colleges of Medicine, Nursing Pharmacy, Dentistry, the School of Allied Health Professions, the Munroe-Meyer Rehabilitation Institute, Eppley Cancer Research Institute, the Lied Transplant Center, and the Durham Research Center. UNMC is affiliated with the Nebraska Medical Center, a tertiary care hospital, and numerous outpatient care centers.

UNMC ranks in the top tier of nursing science and service. Exceptional education. Breakthrough research. Innovative practice. Community engagement. Serving state, nation and globe through five campuses.



UNIVERSITY OF NEBRASKA MEDICAL CENTER unmc.edu

EDUCAUSE CONNECT, CHICAGO
POSTER SESSION

Mobile/BYOD Integration and Research on Student Technology Use

Patrick Rejda, M.S.Ed
Instructional Technologist
Phone: (402) 559-4126
Email: prejda@unmc.edu

Suhasini Kotcherlakota, PhD
Assistant Professor
Phone: (402) 559-6379
Email: skotcherlakota@unmc.edu

UNMC College of Nursing
985330 Nebraska Medical Center
Omaha, NE 68198-5330
www.unmc.edu/nursing





Mobile/BYOD Integration and Research on Student Technology Use

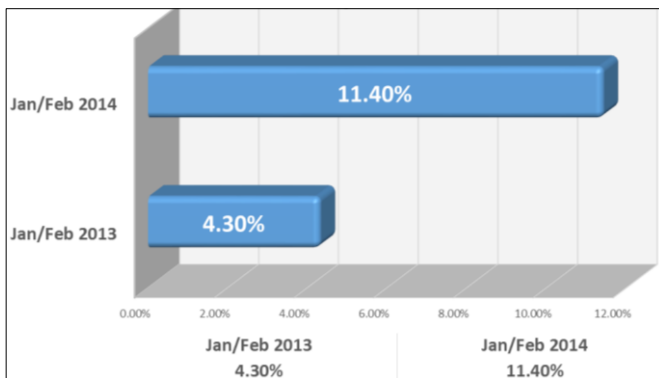
Patrick Rejda, M.S.Ed Instructional Technologist., Suhasini Kotcherlakota, PhD, Assistant Professor.

Background

- UNMC College of Nursing prides itself in providing premier learner-centered nursing education in Nebraska. With five campus locations, the College of Nursing is a 500 mile wide campus offering Bachelor's to Postdoctoral nursing degrees and continuing nursing education programs to health care professionals.
- Facilitating student use of evolving technologies for learning, clinical practice, and research is part of our strategic mission.
 - Information gathered on the use of mobile computing devices has helped support the implementation of a new Bring Your Own Device requirement for students.
 - Issues concerning the appropriate use of mobile computing devices for academic, clinical, and research purposes are being explored at UNMC.
 - UNMC College of Nursing's participation in the 2013 ECAR Study of Undergraduate Students helped identify key challenges toward implementing technology in the classroom.

Mobile Device Usage

- Tablet/smartphone use to access to UNMC resources is increasing rapidly.
- Examples of how mobile devices are utilized include but are not limited to taking class exams, notes, conducting literature review, and accessing class presentations and e-books.



Snapshot of mobile device access to UNMC media server.

Needs Assessment

- Ongoing need for mandatory education on the integration of mobile devices and social media applications in both instructional and clinical courses. Key topics for medical education include HIPAA, FERPA, and FIP 104-2 (device encryption requirement).
- Continued effort to build technology infrastructure and policy base to support appropriate use of mobile devices in both instructional and clinical courses.

Mobile/BYOD

- Beginning Fall 2013 (August) incoming students were required to bring their own wireless computing device to school for use in classes and clinical settings.
- Students are offered additional student loan funds to fund the purchase/cost of the computer.

Technical Support

- Support for faculty, staff, and student computing devices accessing UNMC services and infrastructure is provided by the UNMC Help Desk.
- UNMC College of Nursing provides additional information regarding the *Bring Your Own Device* initiative on the College website including a frequently asked questions and device compatibility checklist.

FAQ – Bring Your Own Device

UNMC Home > College of Nursing > Admissions > Online Education > FAQ - Bring Your Own Device

FAQ - Bring Your Own Device

Top Questions Asked by Students:

- Why do I need to have my own computer device?
- How can I afford my own device?
- What kind of computer should I buy?
- Can my BYOD be a mobile device, such as a cell phone?
- How do I get my computer fixed if it is broken?
- How do I connect to Wi-Fi access?
- What if my computer is lost, damaged or stolen on campus?
- How do I charge up my device?

See answers @ unmc.edu/nursing/FAQ-Bring_Your_Own_Device.htm

Content-Compatibility Checklist

Content/Service Type	iOS/Android Devices	Notes
UNMC Email	Yes	http://www.unmc.edu/its/email_outlook.htm
UNMC Library	Yes	http://www.unmc.edu/lib/index.html
Blackboard Learn	Yes*	Additional software/service(s) may be required to enable saving/editing content offline. Not compatible with secure computer-based testing.
Flash Media Content	Android – Yes	Additional software/service(s) may be required to view Adobe Flash content on iOS.
Archived Class Video	Yes	
Web Conferencing	Yes	http://www.vidyo.com/products/vidyomobile/
Campus Pack Tools	Partially	Additional software/service(s) may be required to enable saving/editing content.
Microsoft Office Files	Viewing Files Okay	Additional software/service(s) may be required to enable saving/editing file offline.
Adobe PDF Files	Viewing Files Okay	Additional software/service(s) may be required to enable saving/editing file offline.
Google Tools	Yes	
Adobe Connect	Yes	http://www.adobe.com/products/adobeconnect/feature-details/adobe-connectmobile.html
Student Information System	Yes	http://myrecords.unmc.edu
Course Evaluations	Yes	EvaluationKIT Mobile is available for both iOS & Android

Additional Resources:

Computer Use and Electronic Information Security Policy	http://wiki.unmc.edu/Computer_Use/Electronic_information
Social Media Policy	http://wiki.unmc.edu/Social_Media
UNMC HelpDesk	http://www.unmc.edu/its/ phone: 402-559-7700, email: helpdesk@unmc.edu

2013 ECAR Study

- UNMC College of Nursing was a participating site in the 2013 ECAR Study of Undergraduate Students and Technology (IRB# 097-13-EX).
- Results from the 2013 ECAR study showed that:
 - UNMC College of Nursing undergraduate students use technology in ways mostly similar to students at peer institutions.
 - UNMC College of Nursing faces several key challenges related to the effective implementation of technology in academic environments.

ECAR Survey Results – Challenge 1

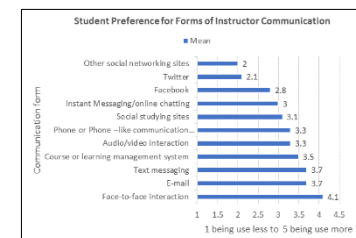
- 66% of the students prefer that courses contain some online components instead of courses with none or completely online courses.
- One student commented *“Have more classroom time...we are always running out of time, with little time for questions or discussions, and many times have to finish the material on our own.”*

Proposed Solution:

- Provide more blended, flipped classroom learning experiences for students.

ECAR Survey Results – Challenge 2

- An average of 72% students perceived that instructors at UNMC CON use technology effectively for student's academic success. Students use technology to communicate with their instructors, to work on course and clinical assignments, and to participate in group work/class meetings.



- *“Teach us how to use the different forms of technology”*
- *“ Make the technology resources available to all students.”*

Proposed Solution:

- Need for evaluation & facilitation of technology and communication methods used for teaching and learning.

ECAR Survey Results – Challenge 3

- On average each UNMC CON student owns 3 devices that are internet-capable. When asked about using smart phone as a learning tool 66% of the students indicated that they use it for looking up information and 46% use to access digital resources.

Proposed Solution:

- Need for just-in-time/on-demand course content accessibility via devices and cost-effective solutions for device use.