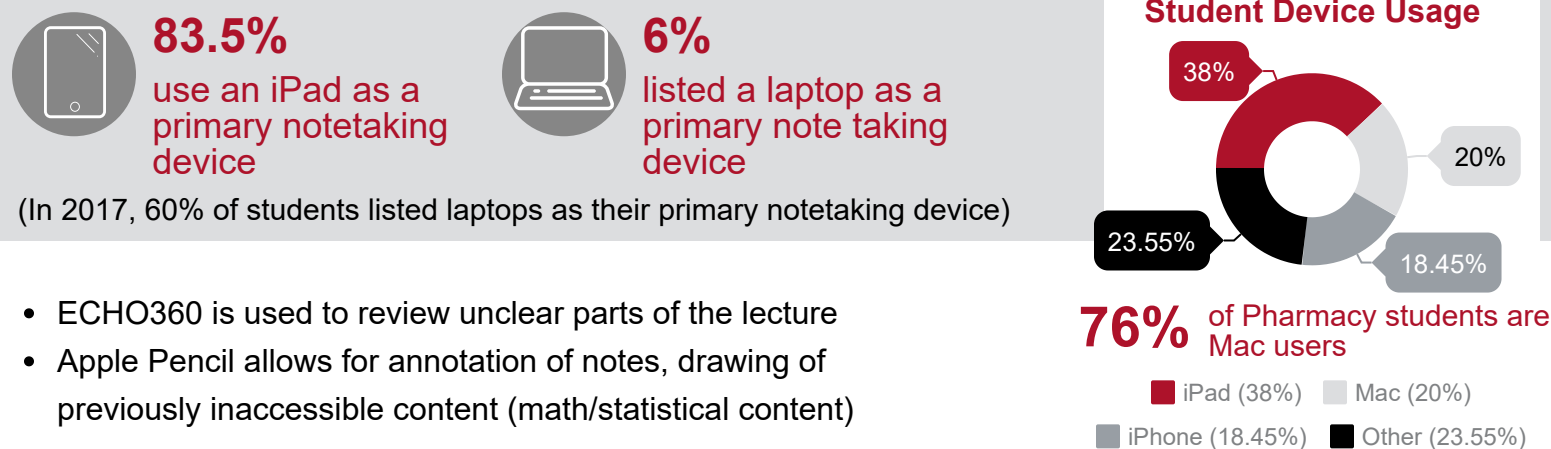


ADVANCING THE DIGITAL CAMPUS

How are the students using devices in 2018?



How are faculty integrating technology into the curriculum?



- Case-based learning
- Problem-based learning
- Student presentations
- Socratic questioning (PollEverywhere, Socrative)

Case Base learning has been presented via

- Traditional paper case
- E-module
- EPIC
- Escape Room



79% of Faculty used active learning techniques in their classroom

For an average of **22 lectures**, faculty are incorporating some kind of active learning activity into

50% of Lectures

How has the curriculum changed since technology integration?

- Video has been incorporated into the curriculum through Canvas and the iPads
- Self-assessment and feedback have been added as components of assignments previously accomplished through chat discussion boards
- Learning is beginning to be put in the hands of the students

What are the added benefits?

- Universal device eases strain of technology support
- Ability to pushout content to students quickly
- Offer 24/7 Apple Care Technical Support to students

Interactive E-Learning



The E-Learning Program at UNMC offers faculty and students the opportunity to create innovative, online modules blended with interactive classroom activities that maximize critical thinking. E-Learning is an integral part of the university's strategic implementation of more interactive curricula utilizing technology to better fit the learning style of millennial students. By engaging learners through these interactive modules, we aim to increase their retention and higher order thinking, ideally leading to improved patient care.



5,717

students impacted

Personnel Support

Instructional Design and Instructional Technology support provided for all colleges. This includes:

- design and consultation for curricular and non-curricular faculty projects
- monthly onsite support at Lincoln COD and CON campuses
- 0.5 FTE allocation to COP iPad initiative
- support of Canvas conversion



219

modules created

Key Contributions



E-Gallery

186 online modules available anytime, anywhere
unmc.edu/egallery



RFA's

8 awarded cohorts funding projects, resources, and expertise for creation of digital curriculum



Lab

PC's, software, audio booth, laptops, cameras, and tablets, available for checkout to create multimedia content



OLC

Hosted OLC Collaborate June 2017 providing 70 UNMC faculty and staff professional development in online learning

Looking Ahead



SCORM Cloud

Pilot in progress to collect more robust learner analytics



Canvas Catalog

Pilot in progress to deliver online content to learners external to UNMC



Continuing Ed

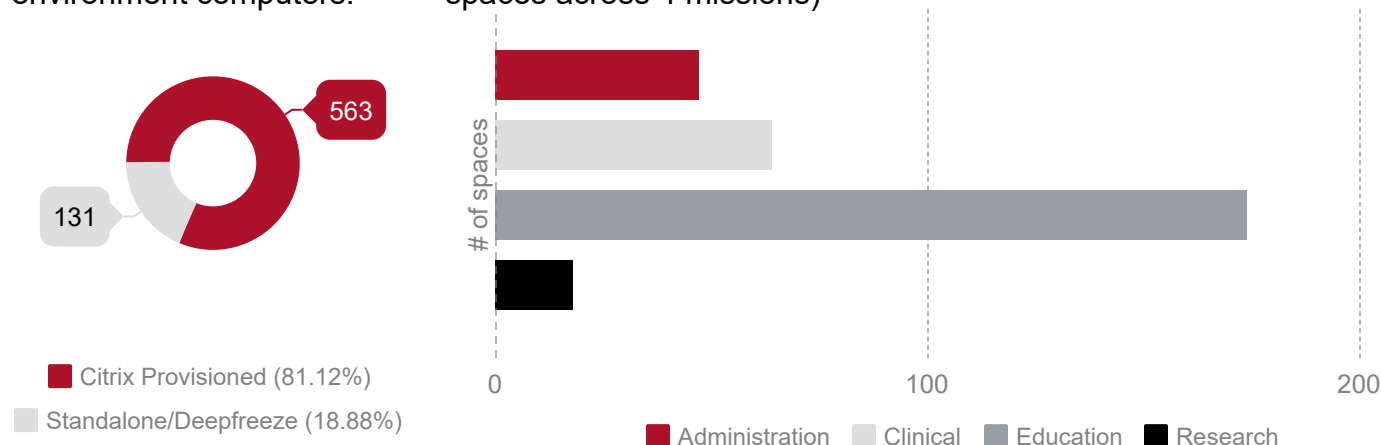
Working with Office of Continuing Ed to support online CE

ADVANCING THE DIGITAL CAMPUS

Learning Environments

Manage 694 learning environment computers.

Support hardware in over 300 spaces (current AVSCA has identified 303 spaces across 4 missions)



\$1,000,000+
in design / estimation work
across 30 unique projects
2017 / 2018

\$300,000
completed in-house
classroom / conference room
installations 2018.

Capital Project Management for

- College of Nursing/University Health Clinic – Lincoln
- Davis Global Center
- Wittson Hall/Heritage Center

Learning Environment Services Include:

- System Design/Installation
- Preventative Maintenance/Hardware Support
- Campus Master Plan
- Product Evaluation/Research and Design

2018 Projects (equipment valued \$5,000.00 or more)

23
Projects

\$144,000
Estimated Savings from in-house
installation

Networking / Wireless Upgrades



The planned network upgrades would include all other buildings UNMC didn't pay for during the last round of the Digital Campus. This includes ESH, both DRC's and numerous administration building (admin center, BSC, ARS, etc), and as it was previously, this includes switches, wireless APs, wiring, and any other closet work required. It also includes having UNMC pay for their portion of South Data Center network lifecycle.

Video Operations

The distance learning rooms on the UNMC campus are supported by the video operations classroom engineers and multi-media technicians.

Classroom Event Support

- 9-7665 – Dedicated Customer Event Support Line
- 11 Classtechs Supporting Campus Events
- Pre-Event Checkout
- Monday-Thursday / 6 am - 6 pm, Friday 6 am - 5pm
- Immediate Dispatch for Issue Resolution
- Remedy Ticketing System
- 300 Conference / Classrooms
- 150-200 Events per week



- 60 High Definition
- Ad-Hoc IP Recording
- IP Video Ports used to Support H.323 VideoConferencing

Telehealth



9-8090 Distance and Telehealth Support

Archiving



Livestreaming

- 4 Concurrent Streams
- Web/HTML5



Wirecast

Video Conferencing



- Standardization Across All Campus Locations (UNMC, UNL, UNO, UNK)
- Decommission of Multiple Applications: Webex, Join.me, Adobe Connect
- Legacy IP Support

<p>1,000 Webinar Participants</p>	<p>100 Participants per Account</p>	<p>500 Participants per Large Events</p>
<p>50 New Accounts Added</p>	<p>600 Meetings Hosted</p>	<p>200,000 Meeting Minutes</p>



ADVANCING THE DIGITAL CAMPUS

Examsoft

ExamSoft is a secure, computer-based testing software that enables students to take exams on their own devices.

Implementation Timeline

January 2017



88,000+
questions banked



2800
student users



2100
exams administered
through Examsoft



3
colleges completing
Examsoft implementation
COM, COP, CAHP

August 2022

Impact

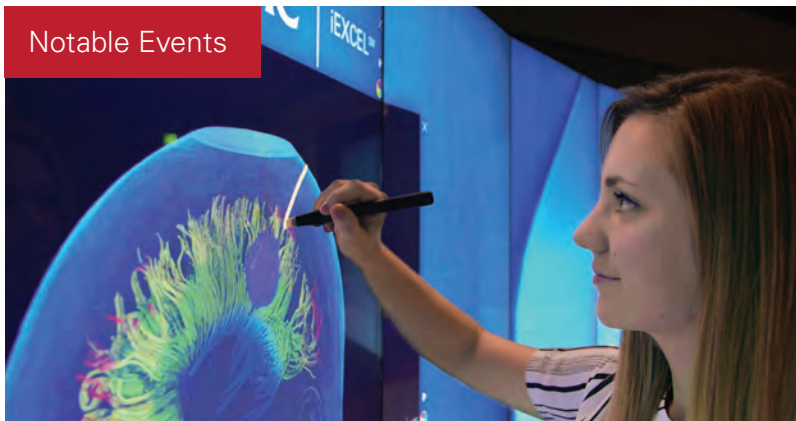
Learning objectives / competencies, accreditation standards, etc. can be mapped to exam questions.

ExamSoft can capture real-time student performance on exams, and this aggregate data can be used to determine how successful students are at mastering specific learning objectives.

Exam outcomes data can be used in future strategic and curricular planning.

iEXCELSM Activity Dashboard

Notable Events



- Nebraska National Guard visited iEXCEL to explore training opportunities.
- CareeRocket hosted 3 events for high school-aged students interested in exploring health and IT careers.







Visualization / Year End / July 1, 2017 - June 30, 2018

175

Tours in FY17/18

420

Total Tours
(FY16-Present)

Highlighted Activities		Q4	Grand Total
	Educational Events	8	60
	Government Tours	5	43
	International Tours	12	30
	Military Tours	2	21
	Recruitment Events	0	28
	Training	0	7

Other activity categories included philanthropic, industry, internal faculty and staff, and alumni.

EON Reality VR/AR



Launched June 2018

Diverse Backgrounds: Journalism, Psychology, Web Programming, Video Production, Computer Programming, Information Technology, Musical Production, Pharmacy, Education, Chemistry and Chemical Education

Education Range: High School Diploma - Pharm.D.

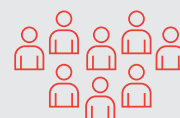
Desired Outcomes: Safety, Humanistic Programs, Educational Applications, Entrepreneurship, Game Design

Visitors



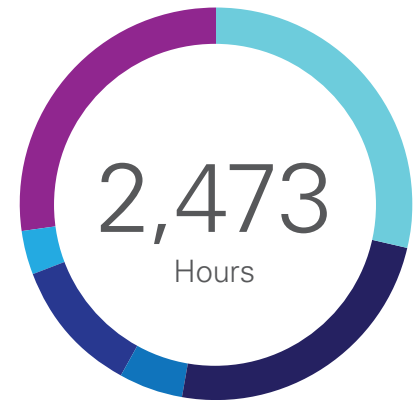
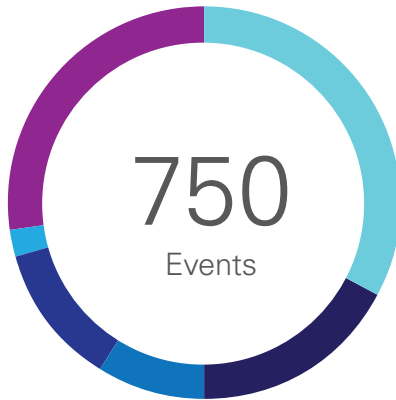
980













Q4



4,659

Total (2016-Present)



Categories	Events	Learners*	Hours		Categories	Events	Learners*	Hours	
 Medicine M1, M2, M3 and M4 students	316	8,443	1,003		 Allied Health Physician Assistants, Physical Therapy, Medical Nutrition and Diagnostic Medicine Students	79	2,614	374	
 Outside Users ATLS, ABLIS, FLS and FES testing, ECMO Conference, College of St. Mary's PA program, Clarkson College NP program	117	1,139	387		 Pharmacy Pharmacy and Pharmacy Tech students	40	1,084	141	
 NMC Employees MDs, Nurses and Respiratory Therapists	50	903	142		 GME Residents and Fellows	148	1,715	426	

Year-End Tour Information



107
Tours



1513
Visitors

"I enjoy simulating real life situations in a controlled environment"

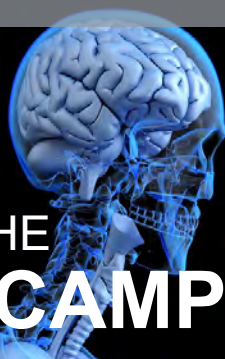
—TNMC staff nurse

Notable Events



- COM new block curriculum incorporating medical simulation to first year students including POCUS, physical examination, and procedural skills
- Nebraska Medicine nursing staff participated in numerous simulation events including cardiac care, code drills, and critical care scenarios

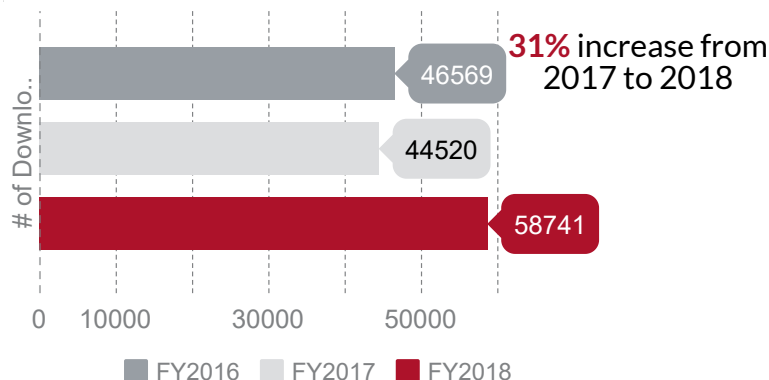
*May include repeat learners attending a new event



ADVANCING THE DIGITAL CAMPUS

Note: FY is June 2018 - June 2019

Digital Commons Downloads

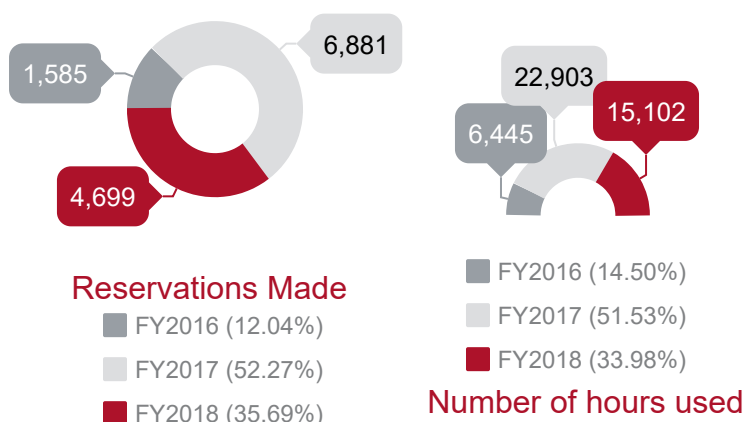


Citation Management Software

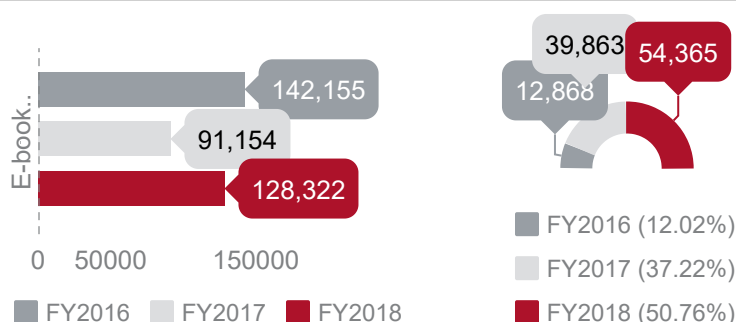
- RefWorks license supports **7,378** UNMC accounts.
- EndNote license supports **733** UNMC accounts.

D!BS Room Reservations

Study rooms reservations using our digital reservation system, D!BS (available online and via the app). Number of reservations and hours used.



E-books



E-book usage

E-book Holdings

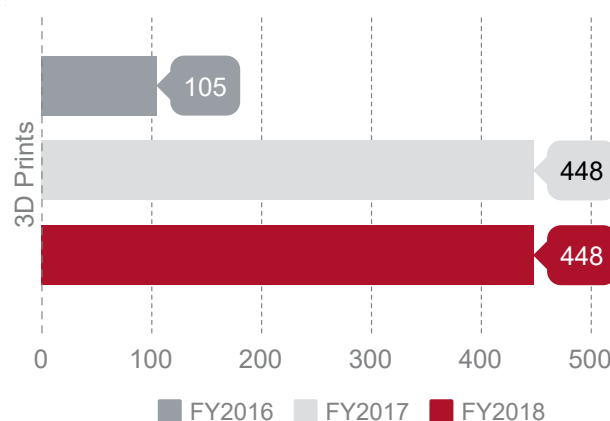
209% increase from 2016 to 2017
36% increase 2017 to 2018

Reservations Made

FY2016 (12.04%)
FY2017 (52.27%)
FY2018 (35.69%)

3D Printing

Overall number of titles and usage.
326% increase from 2106 to 2107



Instruction

Between Jan 1 2013 – Aug 31, 2018, librarians conducted **1,600** education sessions total, reaching a total of **37,849** people.

- UNMC Faculty: **262**
- UNMC Staff (including house officers, residents): **307**
- UNMC Students: **900**
- Other UNMC: **81**
- Visitors and general public: **258**



10
digital literacy sessions
taught in 2017



1,600
education sessions



37,849
people reached

for the Building a Digital Curriculum initiative.

ADVANCING THE DIGITAL CAMPUS

January 2018

UNMC | SYNC launches, piloting five Student Legacy Groups; Building onboarding processes; All Students managed in database by UNMC IT.

September 2018

UNMC | SYNC enters publicity campaign with group and individual trainings. All Faculty/Staff added to UNMC | SYNC. Email Communications.

2019 and Beyond

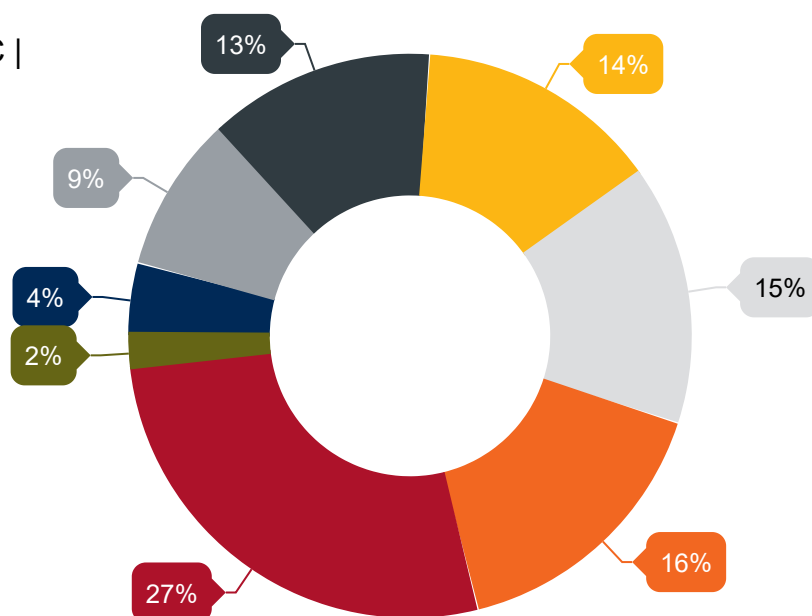
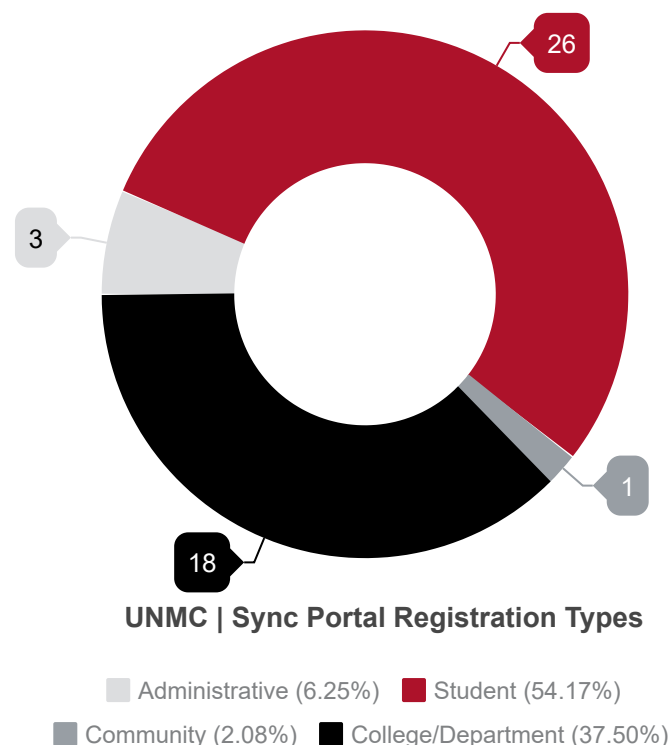
UNMC | SYNC to upgrade from OrgSync to the Engage platform. All users will be maintained by UNMC IT. Work connections with UNO. Use UNMC | SYNC to onboard new students using Pathways. Student Senate weekly digest via SYNC.

August 2018

UNMC | SYNC debuts card swipe for the general UNMC community use at the Welcome Back BBQ. The open use of events and publicity begins. Debut announced in UNMC Today article.


November 2018

UNMC | SYNC continues to expand users. IT upgrade planning initiated. To date, **135** events have been logged in the system. Most events are taking place on campus by student groups.




UNMC | Sync User Profiles by College

- College of Dentistry (4%)
- College of Public Health (9%)
- College of Pharmacy (13%)
- College of Allied Health (14%)
- College of Nursing (15%)
- Graduate Studies (16%)
- College of Medicine (27%)
- Munroe-Meyer Institute (2%)

 **7,514**
Total Users

 **48**
Active Portals

 **3,801**
Involvement Hours

ADVANCING THE **DIGITAL CAMPUS**

Enhanced digital learning options across the NU system

Interactive live streaming events

for entire UNMC 500-mile campus, as well as UNK, UNL, and UNO

Enduring video capture

of over 84% of all Faculty Development sessions, recorded via Echo, IP video, and Zoom

Independent learning opportunities

via Blackboard, Canvas, iLearn Online, and ConnectED Portal (global resource)

Ongoing support and promotion of digital innovation



Digital collaboration

on local, regional, and national levels utilizing tools in Office 365 and video conferencing via Skype and Zoom

Social media

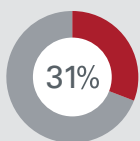
to promote events and disseminate digital learning resources



Since joining Twitter in 2016, Faculty Development now has over 360 followers

Digital tracking

for event registration and sign-in



**events on education
in the digital world**
comprise 31% of all Faculty Development sessions



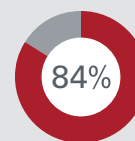
1,060 faculty & staff
registered for Faculty Development education in the digital world sessions



**55 presentations
by academy members**
at education in the digital world sessions



**46 hours
of enduring training**
provided on education in the digital world sessions



distance connectivity
was utilized in 84% of all Faculty Development sessions

Variety of digital resources used by and for Faculty Development and the Academy



“The Digital Campus has encouraged instructors to create interactive learning experiences to guide students as they gain critical thinking skills.

Teresa (Teri) Hartman, MLS

Academy member since 2016
Associate Professor
McGoogan Library of Medicine

ADVANCING THE
DIGITAL CAMPUS



xapiapps

&



Watershed

Piloted 2017 | Implemented 2018

Fiscal Year 2019+

Observational Assessments & Analytics
Interprofessional Practice (TeamSTEPPS)
Post Education Performance in the Clinical
Learning Environment (CLE)
Mock Codes
Infection Control
Pain Assessment
Patient Experience
Coaching – Manager to employee

- ✓ Assess the CLE
- ✓ Resident Milestones
- ✓ IPE → IPP
- ✓ Education Deployment
- ✓ Micro learning
- ✓ CE & CME



Implemented 2018

Fiscal Year 2019+



12,000

Licensed Learners

Nebraska Medicine
Employees, Providers,
Students and Contractors



477

unique Events /
Sessions
completed



568

unique eLearning
modules completed



166

unique Curriculums
completed

- ✓ One Corporate LMS
(UNMC/Neb Med)
- ✓ Curation
- ✓ ecommerce
- ✓ Rural/Community