FROM GOWN TO TOWN:

HOW HIGHER ED IS LEVERAGING TECHNOLOGY TO DELIVER WORKFORCE DEVELOPMENT OPPORTUNITIES FOR PLACE BOUND WORKERS

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ND INTERACTIVE VIDEO NETWORK (IVN)

- Internet-based technology
- Two-way video and audio
- Connect classrooms with campus instructors
- Most closely replicates traditional face-to-face classroom
- Desktop technology now allows delivery to place bound individuals
- LMS integrated into environment; blended learning
1989: 4 SITES
FORMATIVE YEARS: 1989-2004

- 22 higher education classrooms
- 5 Tribal college classrooms
- 2 K-12 consortia connections
- 12 degree programs
- Avg. 3000 students/year
TYPICAL SMALL CLASSROOM
TECHNICAL ARCHITECTURE

- Bridging infrastructure
- Scheduling infrastructure
- Technical support
- Adhoc conferencing
TECHNICAL ARCHITECTURE

Consortia – not endpoints
NDUS

- Bismarck State College
- Dakota College at Bottineau
- Dickinson State University
- Lake Region State College
- Mayville State University
- Minot State University
- North Dakota State College of Science
- North Dakota State University
- University of North Dakota
- Valley City State University
- Williston State College
ND TRIBAL COLLEGES

- Sitting Bull College
- Turtle Mountain Community College
- United Tribes Technical College
- Nueta Hidatsa Sahnish College
- Cankdeska Cikana Community College
CENTRAL ND K-12 NETWORK

- Adams
- Central Valley
- Central Cass
- Dakota Prairie
- Enderlin
- Hatton
- Hillsboro
- Hope-Page
- Maple Valley-Oriska
- Mayville-Portland
- Mayville State
- North Central
- Northern Cass
- Northwood
- Thompson
- Valley City
SUPPORT INFRASTRUCTURE

Site Management

Event Facilitation

SEPTEMBER 23 – 24, 2019 | WASHINGTON, DC
IVN DIRECTOR

- Manages network operations
- Liaison with campuses
- Oversees training and orientation
- Monthly meetings

SEPTEMBER 23 – 24, 2019 | WASHINGTON, DC
SITE COORDINATOR

- Manages room schedule
- Liaison with faculty, other sites & IVN
- Local arrangements
- Material distribution & collection
- Basic understanding of equipment operations
TECHNICAL COORDINATOR

- General maintenance & operations
- In-room technical assistance
- Liaison with IVN technical staff
RESULTS
PROGRAMS OFFERED

- Nursing
- Paramedic Program/EMT Program
- American Sign Language
- Medical Lab Sciences
- Pharmacy Tech – hybrid
- Criminal Justice – hybrid
DUAL CREDIT/EARLY ENTRY CLASSES

- American Sign Language (ASL)
- Anatomy & Physiology
- English 110/120/College Composition
- Communications
- Math 103
- Public Speaking/Speech
- Pre-Calc, Calculus, Calc II
- Psychology
- Sociology
## UNDERGRAD COURSE OFFERINGS

- Agribusiness/Applied Econ
- Agriculture
- Art & Humanities/Humanities
- Astronomy
- Business/Business Administration
- Chemistry
- Communication
- Computer Science/Computer Technology
- Criminal Justice
- Early Childhood/Early Elementary Ed
- Education
- English
- Finance
- Graphic Design
- Health Professions
- History
- Math
- Math, Science and Technology
- Natural Resources
- Nursing
- Psychology
- Science
- Secondary Ed
- Social Sciences
- Social Work
- Special Ed - ASL
GRADUATE COURSE OFFERINGS

- Public Health
- Nursing
- Business Administration
- Counselor Education
- Health, Nutrition & Exercise Science
- Education
IMPACT*

- 652 Dual credit/early entry students
- 1,915 undergrad students
- 393 graduate students
- 131 IVN instructors

* 2018 stats
NORTHERN INFORMATION TECHNOLOGY CONSORTIUM (NITC)

- Collaborative effort among TMCC and 4 NDUS schools
- Effort to maintain IT program viability and increase efficiency of a historically high cost, low enrollment program
- Information technology courses and degrees: BS in MIS; BAS in applied business information technology
- Each of the five campuses delivered 5-7 courses as part of the program
DAKOTA NURSING PROGRAM

- Nursing education consortium of six NDUS colleges
- Practical Nursing and Associate Degree Nursing (two-year registered nurses)
- Expanding to Registered Nurse program
- Multiple receive sites across the state
FINAL WRAP-UP

- TMCC/MiSU shared social work program
- Engineering classes to the Tribal Colleges
- Advanced math and science: Differential Equations, Chemistry, and Biology
- Seminars for student teachers scattered across the state
- Delivered a class to the women's correctional facility
- Local communities: EMT, firefighter, and police safety trainings
QUESTIONS

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