NATIONAL TRIBAL BROADBAND SUMMIT
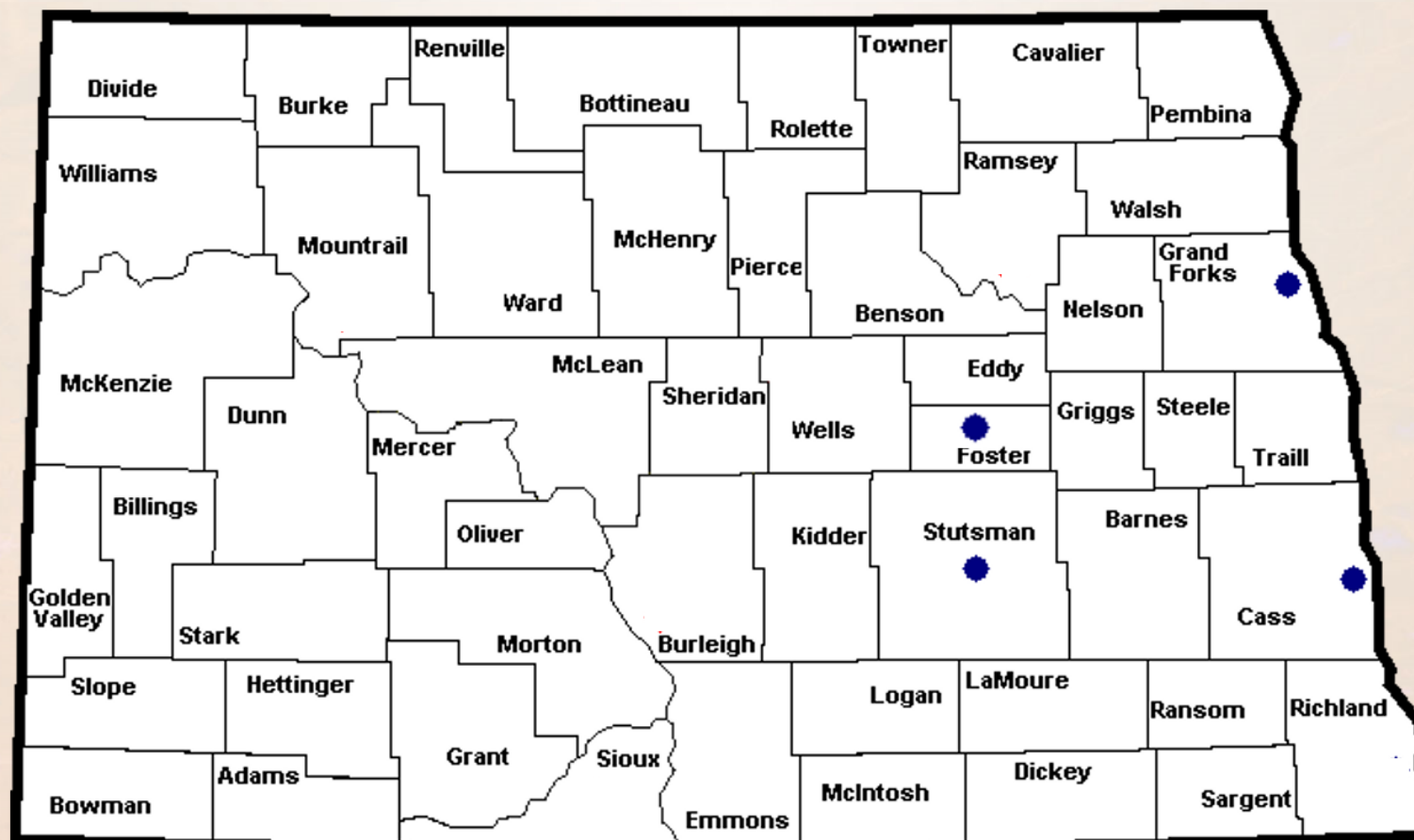
FROM GOWN TO TOWN:

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

JERRY ROSTAD, ASSISTANT CHIEF INFORMATION OFFICER FOR CORE TECHNOLOGY SERVICES, NORTH DAKOTA UNIVERSITY SYSTEM

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

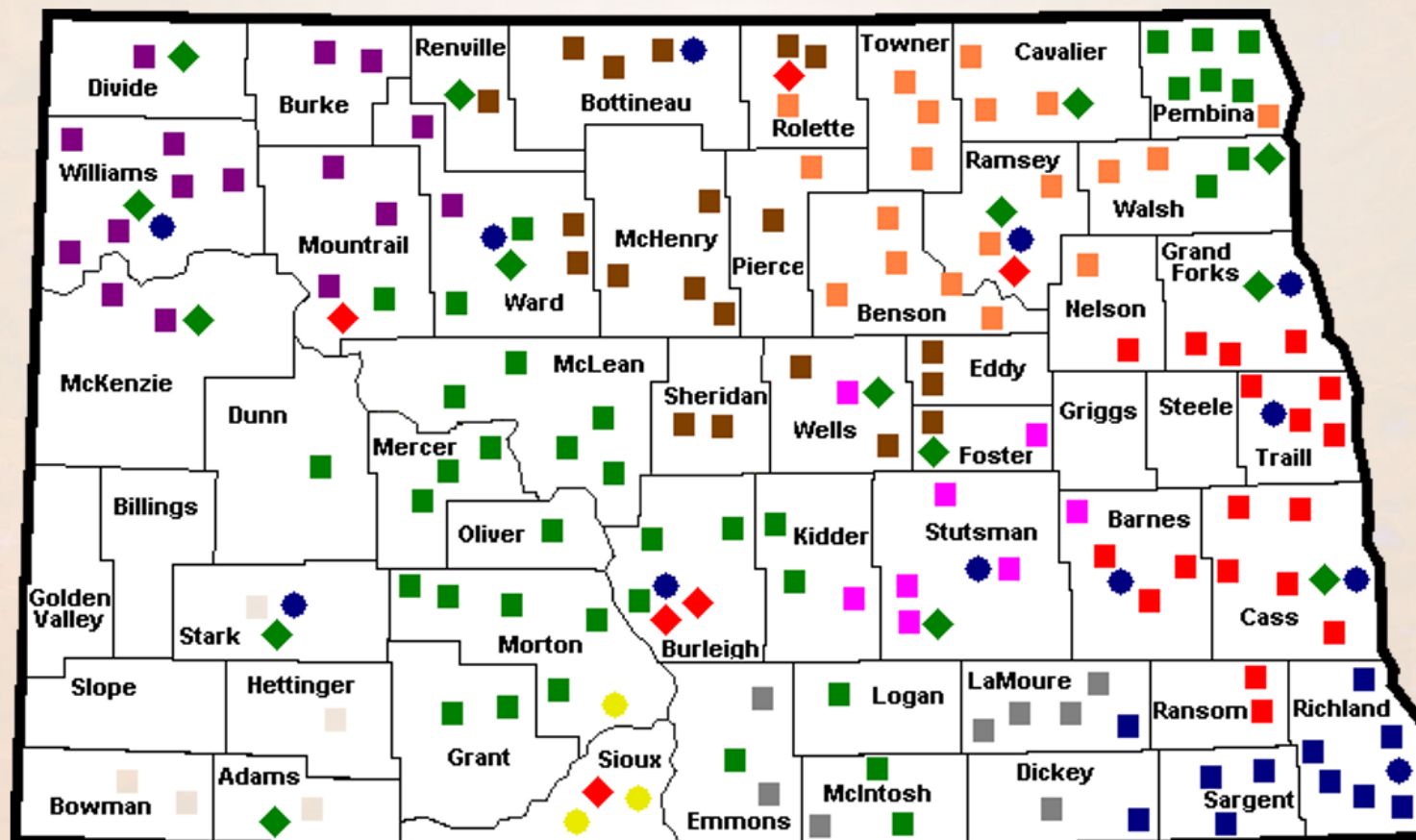+ LMS integrated into environment; blended learning

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

2019: 600+ SITES
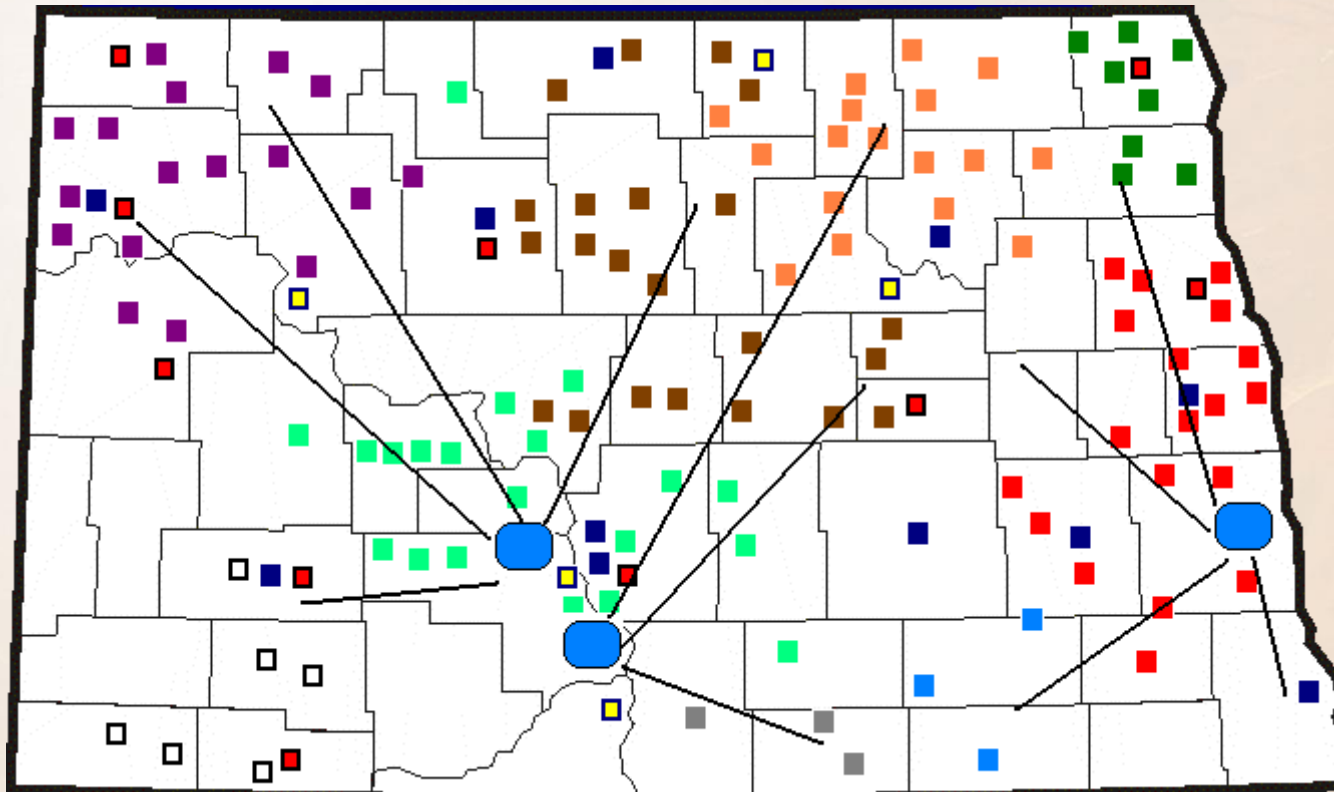
TYPICAL LARGE CLASSROOM

TYPICAL LARGE CLASSROOM

TYPICAL SMALL CLASSROOM

TECHNICAL ARCHITECTURE

+ Bridging infrastructure

+ Scheduling infrastructure
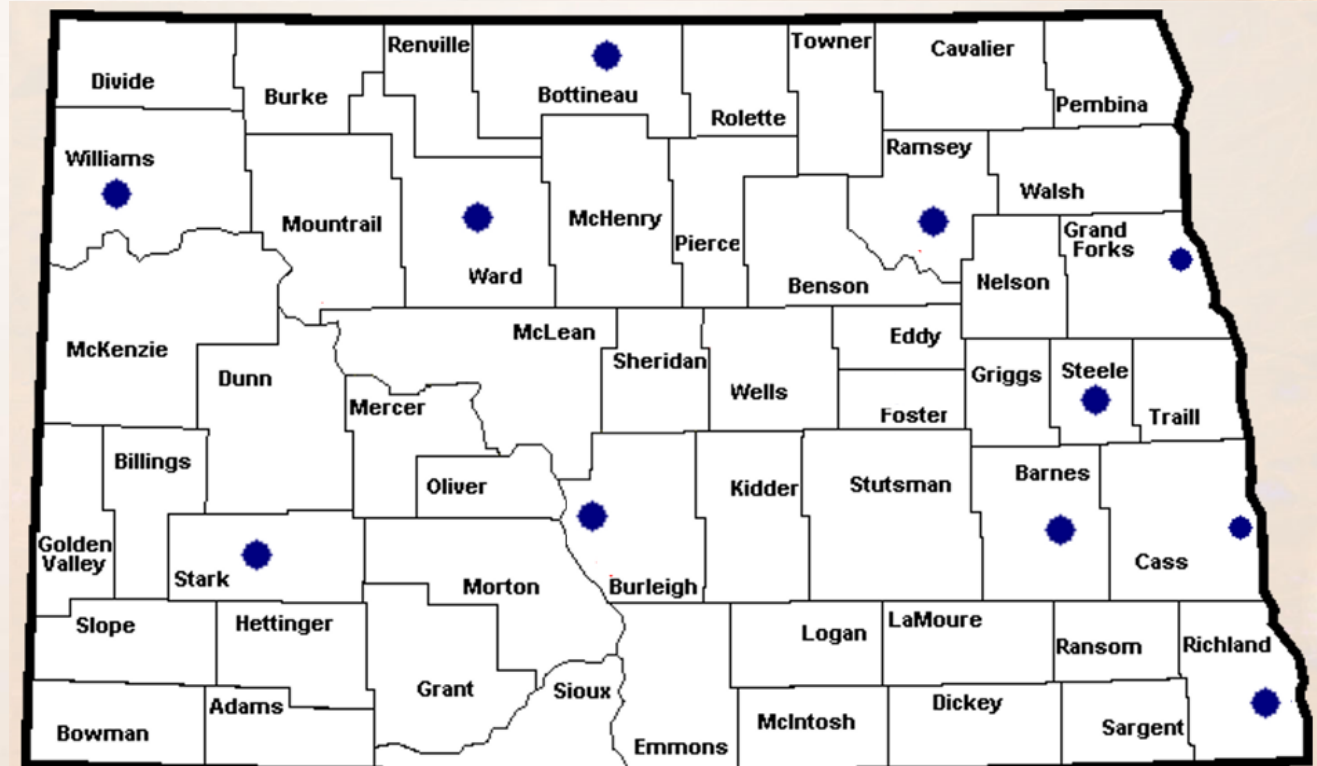
+ Technical support

+ Adhoc conferencing
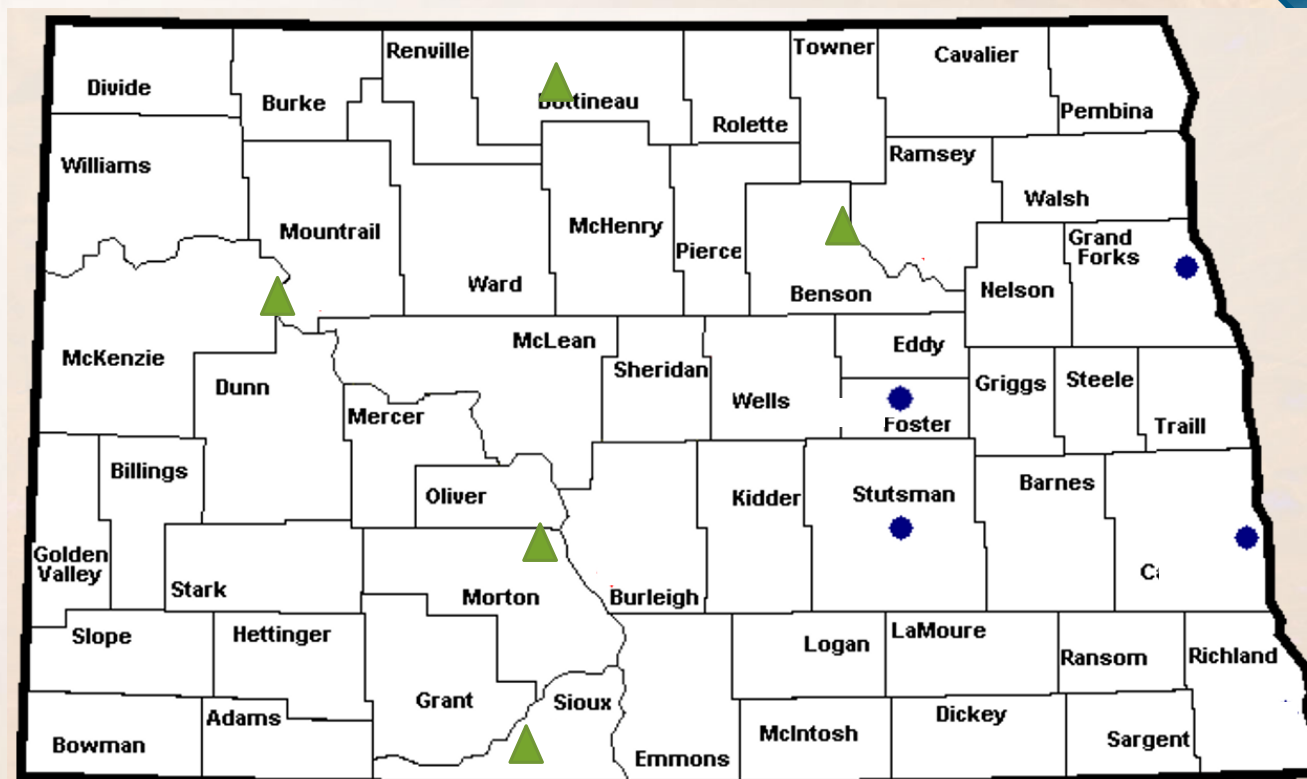
TECHNICAL ARCHITECTURE

+ 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
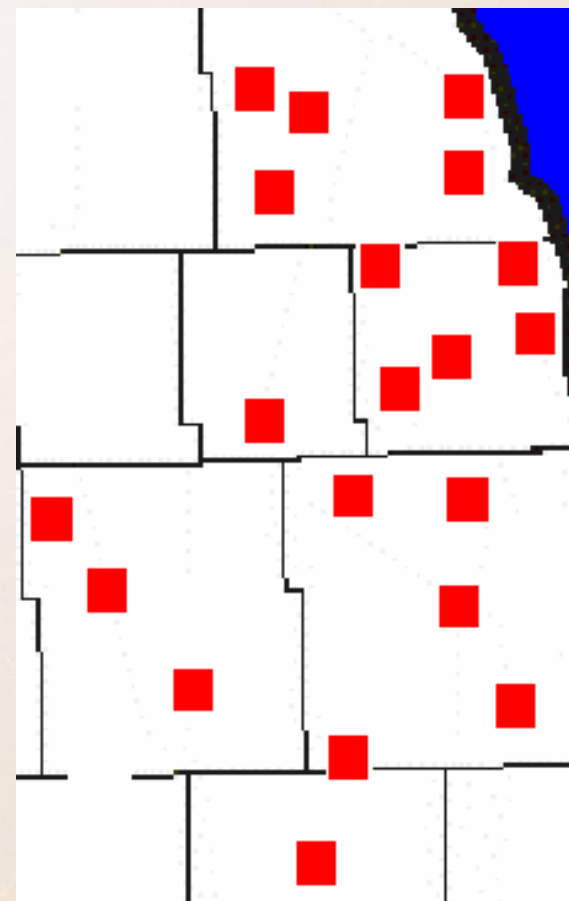
+ Valley City State University

+ 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

IVN DIRECTOR

+ Manages network operations

+ Liaison with campuses

+ Oversees training and orientation

+ Monthly meetings

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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