



# DAKOTA DIGITAL ACADEMY

## NORTH DAKOTA UNIVERSITY SYSTEM



# Dakota Digital Academy Overview

- **Coordinate, expand and enhance** educational opportunities in computing and cyber sciences in North Dakota and the upper Midwest
- **Collaborate by leveraging resources** of all 11 NDUS institutions to prepare future workforce and create new economic growth sectors for North Dakota

# Trending Workforce Requirements

- IT/Digitization/data/Cyber touches every area of society
- Forbes estimates **one million new jobs** for cybersecurity professionals in the United States
- Higher education needs to address this massive workforce shortage

# Trending Workforce Requirements

**Job Postings\***  
Last 12 Months

Average Demand  
**12,735**

**Projected Growth\***  
10 Years



# Trending Workforce Requirements

## Top Requested Occupations\*

Software Developer / Engineer
Senior Software Developer / Engineer
Network Engineer / Architect
Sales Representative
Production Worker
Systems Engineer
Software QA Engineer / Tester
Java Developer / Engineer
Attorney
Business / Systems Analyst

## Top Requested Specialized Skills\*

Project Management
Customer Service
Sales
SQL
Software Development
Java
Scheduling
Budgeting
Customer Contact
Product Development

# Comprehensive Online & Geographic Coverage

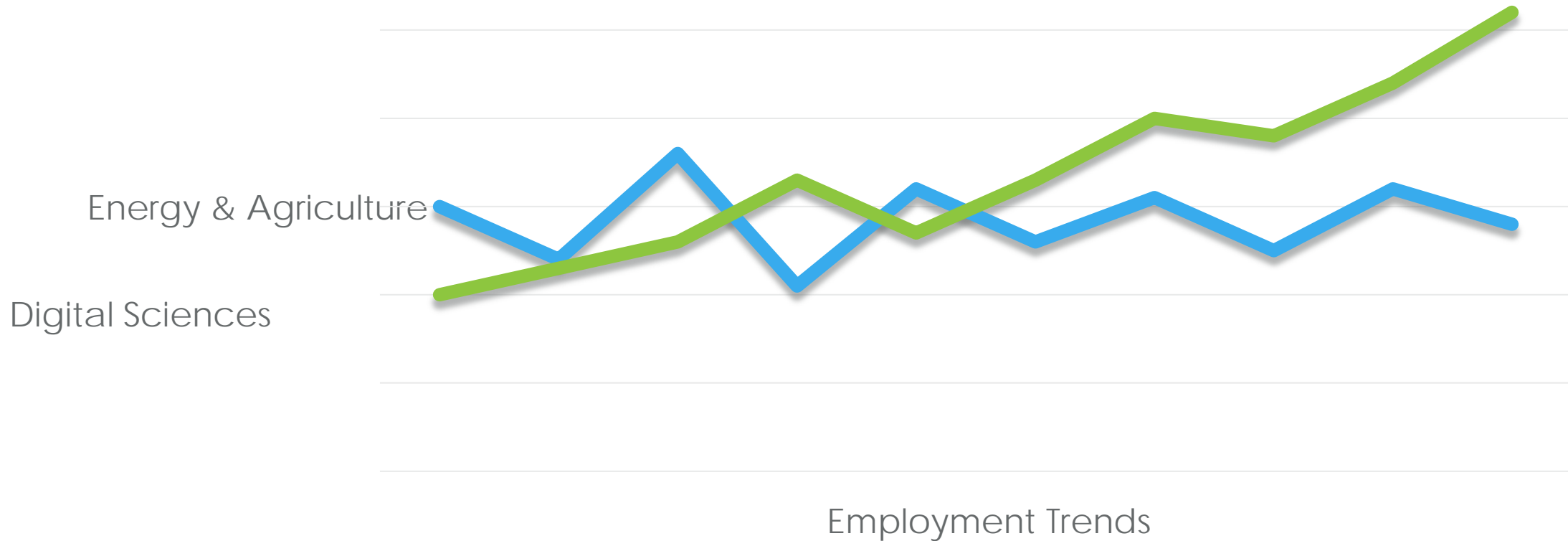


# DDA Current State

- Director hired
- Web portal in development
- Additional courses and certificates fast-tracked
- Humanities and social sciences engaged

# DDA Future State

Diversified economy has advantages





# Vision: Innovation

- ❑ College courses anytime, anywhere: synchronous and asynchronous
- ❑ Combine courses from all North Dakota Colleges and Universities to meet educational goals
- ❑ All content delivered through the existing NDUS-wide Blackboard platform for a seamless experience
- ❑ Programs tailored to provide skills identified as valued by employers
- ❑ Programs can be completed at a single campus or by taking courses from multiple participating campuses

# Vision: Collaboration

- ❑ The Dakota Digital Academy connects and acts as a resource for campuses
- ❑ Continued institutional autonomy in the courses and programs offered creates diverse offerings
- ❑ Courses developed at one institution can be leveraged across the system using existing protocols
- ❑ Incentives for faculty collaboration
- ❑ Shared collaboration virtual spaces

# Vision: Social, Ethical, and Policy

- Cyber technologies penetrating into personal, family, professional and social lives
- Students can choose courses in the social, ethical and policy implications
- Public talks and forums will focus on these implications
- Dakota Digital Review will cover the cyber sciences as well as related legal, political, regulatory, social and ethical issues, and digitization's impact on the arts
  - Written and edited to serve the public beyond the campus
  - Designed to elevate discussions and debates about digitization, facilitating far better preparation of government and business and of voters to make crucial decisions about our future

# Vision: Supporting Higher Ed

- ❑ The Dakota Digital Academy will support NDUS institutions with funding, technology, coordination and other resources
- ❑ The Dakota Digital Academy will help coordinate between institutions that want to make their courses available via other NDUS institutions
- ❑ Employer contact and workforce needs assessment
- ❑ Outreach and other support
- ❑ Multiple and flexible entry points to support students at varied levels of readiness
- ❑ Stackable credentials to provide opportunities for students to reach higher and higher education levels

# Potential DDA Outcomes

- Establish ND as a major destination for research and education
- Safeguard lead roles in Precision Ag, Energy, UAS, and Rural Healthcare
- Economic growth potential

# For More Information

---

Visit [dda.ndus.edu/](https://dda.ndus.edu/)