

Online Learning: Addressing Challenges and Seizing Opportunities North Dakota

THE CHALLENGES

America's K–12 education system faces three significant challenges: (1) increased global demands for skilled workers, (2) significant financial shortfalls, and (3) a looming teacher shortage. Independently, these factors present significant challenges for U.S. schools. In combination, they create a national imperative for swift action to create a more innovative, effective, and efficient education system.

THE OPPORTUNITIES

Every day, creative educators are using technology better to meet the needs of students and teachers. Technology can no longer be considered an “add-on” tool in education, but rather one that is integral. Embracing online-learning opportunities for students and teachers will strengthen the supply and quality of teachers, improve efficiency, and increase students' college and career readiness.

CHALLENGE 1: GLOBAL SKILLS DEMANDS GROW FASTER THAN U.S. COLLEGE GRADUATION RATES

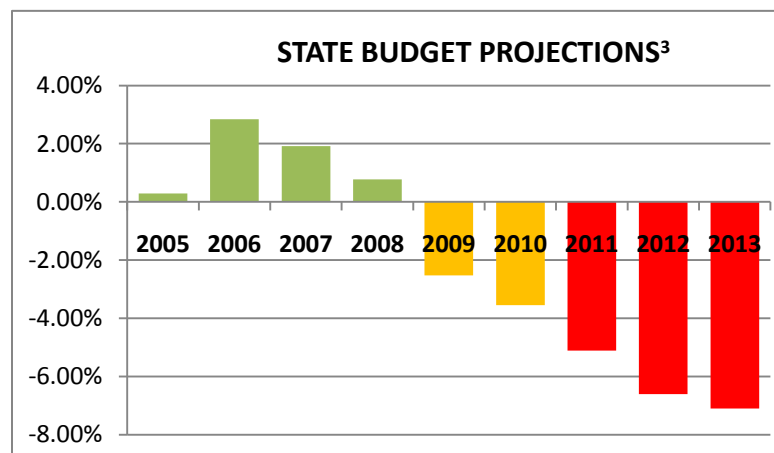
The global economy increasingly demands a skilled workforce. According to the Organisation for Economic Co-operation and Development (OECD), only 40 percent of Americans aged twenty-five to thirty-four have a two- or four-year college degree, ranking the United States tenth among industrialized nations. Boosting the supply of skilled workers and leading the world in postsecondary attainment will require greatly increasing current high school graduation rates and college completion rates (depicted below.)

High School Graduation Rate (Class of 2006) ¹		
	State-Reported	Independently Reported
North Dakota	86%	79%
United States	n/a	69%

College Completion Rates ²		
	Two-Year Institutions <small>(Entered in 2005 and graduated within 3 years)</small>	Four-Year Institutions <small>(Entered in 2002 and graduated within 6 years)</small>
North Dakota	42%	46%
United States	31%	56%

CHALLENGE 2: PROJECTED STATE DEFICITS INDICATE A PENDING FUNDING CLIFF

Local and state governments face continued declines in revenue. In many states, the 2008–09 recession has led to funding cuts or freezes for public education. Long-term forecasts predict that education funding will not return to former patterns forcing policymakers and educators to use scarce resources more effectively and efficiently to improve student outcomes.



CHALLENGE 3: THE LOOMING TEACHER SHORTAGE

Simply put, there are not enough highly skilled teachers to staff the nation's classrooms, let alone to accelerate improvements in achievement and attainment. Approximately one million teachers—almost one third of current teachers—are eligible to retire in the next five to seven years.⁴ Additionally, almost half of all new teachers leave the profession within five years of entering the classroom. The challenge is even more acute in difficult-to-staff subjects and in low-income and rural areas.

Percentage of North Dakota public school teachers aged 50 and up in School Year 2008–09 = **54%**⁵



This page summarizes information about (1) online-learning opportunities in North Dakota, (2) the presence of North Dakota state policies that support online learning, and (3) how federal policy supports online learning in North Dakota.

1. ONLINE-LEARNING OPPORTUNITIES

DO NORTH DAKOTA'S STUDENTS AND TEACHERS HAVE ACCESS TO COMPUTERS AND THE INTERNET?

	ND	U.S.
STUDENTS PER HIGH-SPEED, INTERNET-CONNECTED COMPUTER (2006) ⁶	3.1	3.7
PERCENTAGE OF EIGHTH-GRADE STUDENTS WITH ACCESS TO COMPUTERS IN THEIR CLASSROOMS (2007) ⁶	92%	50%
PERCENTAGE OF INDIVIDUALS WITH ACCESS TO INTERNET AT HOME (2009) ⁷	73%	83%

DO NORTH DAKOTA'S STUDENTS AND TEACHERS HAVE ACCESS TO ONLINE-LEARNING OPPORTUNITIES?

- **State virtual school:** North Dakota runs a state virtual school. In School Year 2008–09, the North Dakota Center for Distance Education (CDE) had 2,417 online course enrollments. CDE offers both online and print courses that are self paced, and teachers are responsible for up to five hundred students per course.⁸
- **Other online programs:** North Dakota has some district programs, but there is no charter school law.⁸

2. STATE POLICY INFRASTRUCTURE

DOES NORTH DAKOTA HAVE POLICIES THAT NURTURE ONLINE LEARNING FOR STUDENTS AND TEACHERS?

	ND	States with Policy
STUDENT STANDARDS INCLUDE TECHNOLOGY LITERACY ⁶	Yes	50
STUDENTS ARE TESTED ON TECHNOLOGY LITERACY ⁶	No	13
COMPUTER-BASED ASSESSMENTS IS OFFERED ⁶	No	26
INITIAL TEACHER-LICENSE REQUIREMENTS INCLUDE TECHNOLOGY ⁶	Yes	21
INITIAL PRINCIPAL-LICENSE REQUIREMENTS INCLUDE TECHNOLOGY ⁶	Yes	10

3. FEDERAL POLICY

DOES FEDERAL POLICY SUPPORT ONLINE-LEARNING OPPORTUNITIES IN NORTH DAKOTA?

- Since Fiscal Year 2002, **North Dakota has received \$17 million** from the federal Enhancing Education Through Technology grant program to improve student outcomes through the use of technology such as improving teachers ability to use technology or improving online-learning opportunities.⁹

SOURCES: