Harvesting Onions

This photograph was taken as part of the Works Project Administration in the late 1930s. During this period farmers were encouraged to raise onions and other vegetables to diversify agriculture.

State Archives 0075-0055
“If you want to build a world class [state], build a great university and wait 200 years.”

– D.P. Moynihan
CHIEF OPPORTUNITY ENGINE
Benefits

North Dakotans
INVESTING IN PUBLIC
HIGHER ED PAYS OFF

AVERAGE ADDITIONAL
LIFETIME EARNINGS FOR
BACHELOR’S DEGREE
HOLDERS

$1 million

AVERAGE DEBT
AMONG BORROWERS
WHO EARN THEIR
BACHELOR’S DEGREE
AT A PUBLIC
UNIVERSITY

$25,500

www.aplu.org/PublicUValues
WEATHERING ECONOMIC DOWNTURNS:
JOBLESS RATES AT THE PEAK OF THE GREAT RECESSION

15.7%

YOUNG WORKERS WITH HIGH SCHOOL DEGREE

6.8%

YOUNG BACHELOR’S DEGREE HOLDERS

9.6%

ALL WORKERS

5%

ALL BACHELOR’S DEGREE HOLDERS
99% of new jobs went to workers with some college
CHIEF OPPORTUNITY ENGINE

Benefits

gements

North Dakotans

North Dakota
OVER A LIFETIME, BACHELOR’S DEGREE HOLDERS CONTRIBUTE $381,000 MORE IN TAXES THAN THEY RECEIVE IN BENEFITS.

<table>
<thead>
<tr>
<th>HIGH SCHOOL GRAD</th>
<th>GOVT. EXPENDITURES</th>
<th>$26,000 NET GAIN</th>
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COMPAARED TO HIGH SCHOOL GRADS, BACHELOR’S DEGREE HOLDERS:

RECEIVE $82,000 LESS IN GOVERNMENT SPENDING
+
PAY $273,000 MORE IN TAXES

$355,000 NET BENEFIT TO GOVERNMENT
PUBLIC UNIVERSITIES ARE INCUBATORS OF INNOVATION

FROM 2012 TO 2013, RESEARCH AT PUBLIC RESEARCH UNIVERSITIES YIELDED

3,278 PATENTS AWARDED
522 START-UP COMPANIES
3,094 TECHNOLOGY LICENSES
BACHELOR’S DEGREE HOLDERS ARE MORE CIVICALLY ENGAGED THAN THEIR HIGH SCHOOL EDUCATED PEERS.

CHARITABLE CONTRIBUTIONS BY BACHELOR’S DEGREE HOLDERS ARE 3.5X HIGHER

BACHELOR’S DEGREE HOLDERS ARE 2X MORE LIKELY TO VOLUNTEER

BACHELOR’S DEGREE HOLDERS VOTE MORE

52% HIGH SCHOOL DEGREE

75% BACHELOR’S DEGREE
CHIEF OPPORTUNITY ENGINE
Benefits

North Dakotans

North Dakota

Deliver
Vision: Premier Flagship in Northern Plains
Flagship
Liberal Arts + Professional + Research

University of _____
• Iowa
• Montana
• North Dakota
• South Dakota

Land Grant
Agriculture + Applied + Research
_____ State
• Iowa State
• Montana State
• North Dakota State
• South Dakota State

Combined
• Idaho
• Minnesota
• Nebraska
• Wyoming
Growing Needed Talent
North Dakotans
North Dakota
Deliver
Growing Needed Talent
Aerospace
Arts & Sciences
Business & Public Admin.
Education & Human Dev.
Engineering & Mines
Law
Medicine & Health Sciences
Nursing & Prof. Disciplines
Master’s
Physician Assistant
Medical Lab Science
Occupational Therapy
Social Work
CSD-Speech Therapy
Doctorate
Medical Doctors
Physical Therapy
Nursing
Society of Teachers of Family Medicine

Percent of class going into family medicine #3

US News Rankings

Rural Medicine #6

Family Medicine #15

Physician’s Assistant #40

Nursing-Anesthesia #43

Occupational Therapy #52
Elementary Education

Education Careers
Master’s
Special Education
Social Work
Early Childhood Ed

Doctorate
Teaching & Learning
Education Leadership
Counseling Psychology
Higher Education
Education Foundations
English
Accounting
Communications
Marketing
Management
Entrepreneurship
Business Economics

Business Careers

Master's
Business Admin
Public Admin
Communications
Law and Enforcement Careers

Criminal Justice

Master’s Forensic Psychology

Doctorate Juris Doctor
Technology Careers

Engineering
- Mechanical
- Civil
- Electrical
- Chemical
- Petroleum

Computer Science

Doctorate Engineering
Aerospace Careers

Master’s Space Studies

Commercial Aviation
Unmanned Aircraft Systems Operation
Air Traffic Control

UNIVERSITY OF NORTH DAKOTA
Nearly 3,000 online students
US News ranked our MBA program
29th and MS in Applied Economics
43rd nationally
Collaboration - Learning

• Certificate in Cyber Security – jointly with NDSU, BSC, and MSU in development

• Master’s of Public Health degree program – Coordinated with a sister program at NDSU

• Ph.D. in History – Joint program between UND and NDSU

• Ph.D. in Criminal Justice – Collaborative program with Minot State
CHIEF OPPORTUNITY ENGINE

Benefits

- North Dakotans
- North Dakota

Deliver

- Growing Needed Talent
- Nurturing Economic Diversity
Promote energy security and sustainability
Advance the practice of medicine to better address the needs of rural healthcare. Help rural communities solve their unique health, social, and economic challenges.
Effectively, efficiently, and ethically produce, manage, and securely use information in age of big data
Drive the world-changing developments of UAS and do so in a way that reflects our values
Using UAS for power line inspections
“UND’s farsighted efforts in UAS education and research were critically important as Northrop Grumman considered expanding its enterprise into the Grand Forks area.”

– Dave Hambleton, Northrop Grumman
Collaboration – Research

• INBRE (IDeA Network of Biomedical Research Excellence): UND and NDSU work with NDUS institutions and tribal colleges to initiate competitive, sustainable research programs and increase students prepared to pursue advanced education in biomedical sciences.

• EPSCoR (Experimental Program to Stimulate Competitive Research): NDSU and UND work to increase the competitiveness of North Dakota for merit-based grants and contracts in support of science and technology research from federal funding agencies.
Growing Needed Talent
North Dakotans
North Dakota
Leveraging State Funding

Deliver
Growing Needed Talent
Nurturing Economic Diversity

CHIEF OPPORTUNITY ENGINE
Benefits
EVERY STATE DOLLAR = SIX DOLLARS IN OUTSIDE FUNDS

$13,241,428
State

$83,893,210
Other Sources

Research Expenditures – 2016
ECONOMIC IMPACT OF UND RESEARCH = $146 MILLION

$13,241,428 State

$83,893,210 Other Sources
Matched $4.4 million state money for maintenance with $8.8 internal funds
Matched $16.5 million matching grant with $33 million contributions
Collaboration Efficiencies

• UND’s EERC collaboration with VCSU on proposed steam plant
• iDashboard - UND provided support for BSC, MiSU, LRSC, and VCSU – to present enrollment, retention, graduation, and admissions data.
• UND provides alert notification maintenance and support for NDUS.
• UND manages the AppliTrack online recruiting consortium for NDUS.
• Providing Internal Audit to LRSC and MaSU
• Providing HR Payroll to MaSU, CTS
CHIEF OPPORTUNITY ENGINE

Benefits

North Dakotans

North Dakota

Deliver

Growing Needed Talent

Nurturing Economic Diversity

Leveraging State Funding

Enhancing
Future Adjustments

- Timeline set to finalize budget decisions immediately following legislative session
- Each unit asked to submit budgets at 4%, 8%, and 12% below FY 2017
- Budget reduction will vary by college based on factors including balance between available resources vs. students taught and research
Federal Funding Risks

Financial Aid:

• Federal Perkins Loan: FY16 - Disbursed $2.65 million to 1,353 our most needy students - scheduled to sunset on September 30, 2017

• Student Financial Aid Act was scheduled to be reauthorized in 2015. Current deadline of January 27, 2017 to propose cuts and changes to student aid programs. Multiple competing proposals.

Research Grants:

• Our two largest areas of research funding are biomedical and energy. New administration approach uncertain.
UND GRANTS AND CONTRACTS


Federal

Total

Millions

2010
2011
2012
2013
2014
2015
2016
Strategic Planning – One UND
One UND Strategic Goals

• Collaboration
• Community
• Diversity
• Liberal Arts
• Recruitment
• Research
• Student Success
• Teaching and Learning
CHIEF OPPORTUNITY ENGINE

Benefits

- North Dakotans
- North Dakota

Deliver

- Growing Needed Talent
- Nurturing Economic Diversity
- Leveraging State Funding

Enhancing

- Learning
Goal: Double experiential learning – research, internships, coop education, study abroad, service learning
Graduation Rate

4 year  26%
6 year  54%
Goal: Improve graduation rates
Predictive analytics > intervention
Full Starfish adoption
Degree planner software for students
Removing curricular / admin barriers
OPPORTUNITY

Benefits

- North Dakotans
- North Dakota

Deliver

- Growing Needed Talent
- Nurturing Economic Diversity
- Leveraging State Funding

Enhancing

- Learning
- Discovery
Goal: Increase research activity focused on grand challenges
Since 2009 - dropped 22 and added 47 program, including:

• Petroleum Engineering
• Unmanned Flight Testing Incubator
A Silicon Valley for Drones, in North Dakota

By QUENTIN HARDY  DEC. 25, 2015
Data Supply Chain
Capture
Communicate
Store
Secure
Analyze
Growing Needed Talent

North Dakotans

North Dakota

Deliver

Growing Needed Talent

Nurturing Economic Diversity

Leveraging State Funding

Enhancing

Learning

Discovery
Average age: 50 years old
Nearly $500 Million in deferred maintenance...
Not adding capacity
Managing space utilization
Need to upgrade to:
- Facilitate interactive teaching
- Add group breakout spaces
Coulee to Columbia Revitalization
Remove or Take Offline
14 buildings
214,249 sq. ft.
$24 million in deferred maintenance
$21 phase one of $42 million remodel
State Board approved – private funds
$18 million in deferred maintenance
Need fewer physical books and more technology and study spaces.
Gamble Hall

$70 million remodel or replace
State Board approve – private funds
$18 million in deferred maintenance
Memorial Union
Possible remodel – student fees
$20 million in deferred maintenance
Coulee to Columbia

- Donors – Gamble, Library
- Students - Memorial Union
- City – upgrade University Ave
- $80 million in deferred maintenance
- Work in Progress:
  - Authorization to sell Dakota Hall
  - Authorization to monetize value of golf course
Tuition lower than undergraduate tuition
10.8% percent below graduate tuition rate
Lowest priced law school in nation
If 10.8% increase, second lowest in nation
PRICE VS. VALUE
2016-2017 IN-STATE TUITION

$8,137
UNIVERSITY OF NORTH DAKOTA

$13,140
UNIVERSITY OF MINNESOTA DULUTH

$14,224
UNIVERSITY OF MINNESOTA TWIN CITIES
Chief Opportunity Engine
Handouts

• UND Budget Summary
• Effects of budget reductions approved during the August 2016 special session
• Optional Adjustment Requests
• Other Information